User and Technical Document

URL: https://etaal.gov.in
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1. Introduction

All Ministries and Departments of Central and State/UT Governments have been implementing e-Governance projects for providing eServices to citizens. An idea about the impact of eServices can be obtained from the number of eTransactions taking place under these applications implemented by various Government Ministries/Departments.

eTaal facilitates quick analysis of eTransaction data shared by various applications in tabular as well as graphical from enabling the user to drill down to the lowest possible level. It also enables the user Ministry/Department to view the consolidated picture of eTransaction statistics of various e-Governance projects across the country and to visualize the status of utilization of various e-Governance applications running across the country. The mass popularity of eTaal 1.0 has led to the development of eTaal 2.0 which is equipped with multitude of features for a smoother and more meaningful experience for the user.

For the improvisation of the application, the following features are added to under eTaal 2.0:

- **Service Directory** - To facilitate the view of eServices being delivered across the country, Service Directory is developed. The eService directory provides the details of e-Governance application delivering the service along with the details of spatial spread for a given service. It helps citizens to find state level services grouped under a particular standard service.

- **Business Intelligence (BI) Tools** - BI will give extra edge to eTaal and establish it as the most logical choice for monitoring and tracking the progress of various initiatives and help the Government in decision making.

- **State Portal** - A personalized portal for states and union territories by the name of “State Portal” is implemented on the eTaal website. It helps citizen in finding state level services grouped under a particular standard service.

- **Mobile Application for eTaal** - Mobile Application for eTaal is being further developed. The current feature of App allows the users to get the information of eTransaction count on their mobiles.
2. System Overview

**e-Transaction view** - It shows the e-Transaction count of various eServices under the following categories: Central Govt. Projects, State Govt. Projects, Standard Services, Mission Mode Projects, Across the Counter eServices, NOFN, Categories.

**Login** - Registered users can login to eTaal from here. It enables the users to login to eTaal with their registered email id and password.

**Service Directory** - It provides the view of eServices being delivered across the country. The users can search for the relevant services on the basis of:
1. Type (eState, Ministry & All)
2. Select the relevant State / Ministry / All
3. Category
4. Standard Service
5. Service Name

**State Portal** - The State portal link contains link for all 36 States and UTs represented on a heat map of India. On clicking a particular State, the user is redirected to an exclusive portal of that State which provides eTransaction count of that State and of various eServices of that State.

**FAQ** - “Frequently Asked Questions” of eTaal provides responses to Users on few of the general queries pertaining to eTaal application.

**Report** - The Report tab on the eTaal homepage shows different types of reports generated on the basis of the services e-Transaction count:
1. State Wise Transaction Per 1000 Population
2. State Wise Transaction Per Services
3. Category Wise Transaction

**Signup** - The new user needs to sign up on eTaal portal to create the login details before proceeding to the service enrolment page. Once the user has successfully created the login credentials, he/she may click on the login Option.

**BI Analysis** - It shows different type of BI analysis on e-Transaction data. The various categories of BI Analysis are as follows:
1. YEARLY ANALYSIS
2. SERVICE ANALYSIS
3. MMP ANALYSIS
4. STATE WISE ANALYSIS

**Connect Your Services** - It is an informational pop up that guides a new user about service enrollment process on the portal.

**Awards:**
1. Microsoft - Data Heroes Award 2017 for eTaal Portal
2. ICEGOV Best Poster Paper Award 2017 for eTaal Portal
3. Digital India Knowledge Exchange Award 2016
4. eINDIA Awards 2014
5. SKOCH Platinum Award 2013
6. SKOCH Order of Merit 2013
### 3. Abbreviation

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2C</td>
<td>Business to Citizen</td>
</tr>
<tr>
<td>DBT</td>
<td>Direct Benefit Transfer</td>
</tr>
<tr>
<td>MeitY</td>
<td>Ministry of Electronics and Information Technology</td>
</tr>
<tr>
<td>DCC</td>
<td>Dashboard Client Connector</td>
</tr>
<tr>
<td>DSC</td>
<td>Dashboard Server Connector</td>
</tr>
<tr>
<td>eTaal</td>
<td>eTransaction Aggregation and Analysis Layer</td>
</tr>
<tr>
<td>HTML</td>
<td>HyperText Markup Language</td>
</tr>
<tr>
<td>IE</td>
<td>Internet Explorer</td>
</tr>
<tr>
<td>IIS</td>
<td>Internet Information Services</td>
</tr>
<tr>
<td>IT</td>
<td>Information Technology</td>
</tr>
<tr>
<td>MMP</td>
<td>Mission Mode Project</td>
</tr>
<tr>
<td>NeGP</td>
<td>National e-Governance Plan</td>
</tr>
<tr>
<td>NIC</td>
<td>National Informatics Centre</td>
</tr>
<tr>
<td>NOFN</td>
<td>National Optical Fibre Network</td>
</tr>
<tr>
<td>OS</td>
<td>Operating System</td>
</tr>
<tr>
<td>PDS</td>
<td>Public Distribution System</td>
</tr>
<tr>
<td>PHP</td>
<td>Hypertext Preprocessor</td>
</tr>
<tr>
<td>PMC</td>
<td>Project Management Committee</td>
</tr>
<tr>
<td>PNR</td>
<td>Passenger Name Record</td>
</tr>
<tr>
<td>RoR</td>
<td>Record of Right</td>
</tr>
<tr>
<td>RTI</td>
<td>Right To Information</td>
</tr>
<tr>
<td>SPMC</td>
<td>State Project Management Committee</td>
</tr>
<tr>
<td>SQL</td>
<td>Structured Query Language</td>
</tr>
<tr>
<td><strong>URL</strong></td>
<td>Uniform Resource Locator</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><strong>UT</strong></td>
<td>Union Territory</td>
</tr>
<tr>
<td><strong>VAT</strong></td>
<td>Value Added Tax</td>
</tr>
<tr>
<td><strong>XML</strong></td>
<td>Extensible Markup Language</td>
</tr>
<tr>
<td><strong>WCF</strong></td>
<td>Windows Communication Foundation</td>
</tr>
</tbody>
</table>
4. Stakeholders

- Central Ministries
- State & UT Government
- NGOs
- Citizens
- Departments
- Academic Institution and Researchers
5. Purpose of this Document

The purpose of this document is to enable the user to identify eTransactions, categorize various services and effectively use the application. The user may further view the eTransaction count for various Central and State projects, State and Central MMPs, and other analysis as per requirement.

The document also aims at providing the users with all the necessary information regarding registration of their respective services and integration of their data with eTaal.
6. How to Access the Dashboard

The portal may be accessed using the URL https://etaal.gov.in

Home Page will be displayed as shown in Figure-1.
7. Functionalities of eTaal

Major functionalities incorporated in eTaal web portal are as follows:

➢ eTransaction view of Central / State Govt. projects aggregated at various levels

➢ eTransaction view of Mission Mode Projects (MMPs) aggregated at various levels

➢ eTransaction count for

   o Standard Services
   o Service Categories
   o States providing “Across the Counter” services
   o States providing eServices through NOFN

➢ Drill-down feature to get detailed view of eTransaction count. E.g. User can click on a single Ministry and view eTransaction count for all projects under that Ministry. In another case, user may select a particular standard service and view eTransaction count for all States giving that service. If the user further drills down and selects a particular State, he/she can view eTransaction count for all services that the State is providing under that respective Standard Service category.

➢ Time line analysis of eTransaction count across different time period

➢ Graphical and Tabular presentation of eTransaction count

➢ Service enrolment feature through login

➢ Service Directory that gives list of services under any service category for selected State/Ministry

➢ Ranking of States and Projects on basis of eTransaction count. E.g. Homepage of eTaal displays the names of Top 5 Projects and States/UTs on the basis of total eTransaction count since the eTaal portal got launched. The portal also gives ranking for ongoing month and trends for last six months
8. eTaal Home Page

eTaal 2.0 Home Page is displayed in Figure-1. The components of Home Page are -

1. Menu Bar i.e. – ‘Left Menu Bar’ and ‘Right Menu Bar’
2. National eTransaction Count
3. eTaal Description
4. Top 10 Mission Mode Projects
5. eTransaction Growth
6. Services Classification
7. Top 5 States
8. Top 10 Central Projects
9. State wise MMP Analysis

8.1 Menu Bar

Home Page has two Menu Bar, one on each side of the dashboard. The Left Menu Bar includes -

<table>
<thead>
<tr>
<th>1.</th>
<th>eTransactions View</th>
<th>It shows the eTransactions of various eServices under the following categories:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>i. Central Govt. Projects</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. State Govt. Projects</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Standard Services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iv. Mission Mode Projects</td>
</tr>
<tr>
<td></td>
<td></td>
<td>v. Across The Counter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>vi. NOFN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>vii. Categories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Report</th>
<th>The Report tab on the eTaal homepage shows the different types of reports generated on the basis of the services eTransaction count. The various categories of Reports generated under this tab are as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>i. State Wise Transaction Per 1000 Population</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Central/State Wise Transaction Per Services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Central/State Category Wise</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.</th>
<th>Service Directory</th>
<th>It provides the view of eServices being delivered across the country. The users can search for the relevant services on the basis of following search parameters:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>i. Type i.e. State, Ministry &amp; All</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Select the relevant State /All</td>
</tr>
</tbody>
</table>
### 4. State Portal

The link “State Portal” on the eTaal dashboard, allows the users of different states to view the transaction counts. This interface contains separate links for all the 36 states and union territories. The link of individual states further redirects the user to the individual state portal from where a user can view the total transaction count and the eTransaction count of the various standard services integrated with the specific state.

### 5. FAQs

The section “Frequently Asked Questions” on the homepage of eTaal provides responses to Users on few of the general queries pertaining to eTaal application.

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**The Right Menu Bar includes** –

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.</strong></td>
<td><strong>Login</strong></td>
<td>The user needs to login to access the eTaal Portal.</td>
</tr>
<tr>
<td><strong>2.</strong></td>
<td><strong>Signup</strong></td>
<td>The new user needs to sign up on eTaal portal to create the login details before proceeding to the service enrolment page. Once the user has successfully created the login credentials, he may click on the login option.</td>
</tr>
<tr>
<td><strong>3.</strong></td>
<td><strong>BI Analysis</strong></td>
<td>It shows the different type of graphical analysis on eTransaction data. The various categories of Analysis available under this tab are as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>i. Yearly Analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Service Analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. MMP Analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iv. State Wise Analysis</td>
</tr>
<tr>
<td><strong>4.</strong></td>
<td><strong>Connect Your services</strong></td>
<td>The new user needs to sign up on eTaal portal to create the login details before proceeding to the service enrolment page. Once the user has successfully created the login credentials, he may click on the login option.</td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td><strong>Contact Us</strong></td>
<td>It Shows the contact details.</td>
</tr>
</tbody>
</table>
8.2 National eTransaction Count

This section of the eTaal Home page provides integrated, near real-time aggregated view of eTransaction statistics:

1. Since beginning of current year
2. Since beginning of current month
3. Total number of eServices integrated

The counter provides eTransaction count, consolidated on near real-time basis, for all the eServices integrated with eTaal.

The counter also provides the total number of eServices integrated, count of which gets updated every time when a new service is approved and integrated on eTaal. The counter is displayed in Figure-2.

![Figure-2](image)

8.3 eTaal Description

This section of homepage provides description of eTaal as shown in Figure-3.

![Figure-3](image)

8.4 Top 10 Mission Mode Projects (MMP)

The homepage of eTaal displays names of Top 10 Mission Mode Projects (MMP) on the basis of the monthly transaction count.

A mission mode projects (MMP) is a Project of National e-Governance plan that focuses on one aspect of electronic governance, such as banking, land records or commercial taxes etc.

Figure-4 shows eTransaction count of top 10 Mission Mode Projects since 1st Jan 2013 to 31st Dec. 2018.

![Figure-4](image)
By clicking on “View More” Tab, user can view year wise analysis of MMPs integrated with eTaal. This is displayed in Figure-5.
8.5 eTransactions Growth

The homepage of eTaal displays the “eTransaction Growth” on the basis of the yearly eTransaction count. This is shown in Figure-6

By clicking on View More Tab, user can view year wise analysis of eTransaction as illustrated in Figure-7.1 and Figure-7.2.

- Shows year/ month wise distribution of eTransaction
- Shows Avg. Transaction Distribution Month/Year Wise
Figure-7.2

- Shows yearly Time line analysis on the basis of No. of eTransaction and average transaction per day

8.6 Service Classification

The homepage of eTaal displays eTransaction count since 1\textsuperscript{st} Jan 2013 for various standard services like Commercial Tax, PDS, Utility Services, Rural Development, Agriculture and other services under “Service Classification (Figures in cr.)”. This is shown in Figure-8

By clicking on “View More” Tab, user can view “Service Classification Analysis” dashboard. The dashboard allows user to see eTransaction count by selecting respective service category and name from Service Classification filter and Services filter. This is displayed in Figure-9
8.7 Top 5 States

The home page of eTaal displays “Top 5 States” on basis of the eTransaction count since 1st Jan 2013 as shown in Figure-10.

By clicking on “View More” Tab, user can view “State project Analysis” dashboard as illustrated in Figure-11.1 and figure 11.2
Figure-11.1 (Service category and classification)
- Select date from ‘Duration filter’ User can click on any visual for further filtration
- Analysis shows Top 10 Standard Services, Top 10 States and distribution of Service category

Figure-11.2 (State wise eTransaction distribution)
- Analysis shows Total Transactions
- Top 10 States
- States wise Transaction Distribution
8.8 Top 10 Central Projects
The home page of eTaal displays “Top 10 central Projects” since 1st Jan 2013 on basis of total eTransaction count as shown in Figure-12

By clicking on “View More” Tab, user can view “Central Govt. project Analysis” dashboard which contains the following:

- Total eTransactions
- Quarter and month wise distribution of eTransaction
- Distribution of Central Government projects
- Top 10 services
- Service classification Top10 v/s projects

This is shown in Figure-13. Select year from ‘Year filter’. Then you can click on any visual for further filtration.
8.9 State Wise MMP Analysis

The home page of eTaal displays “States wise MMP Analysis” on the basis of total eTransaction count since 1st Jan 2013 as shown in Figure-14.
By clicking on “**View More**” Tab, user can view **“State wise MMP Analysis”** dashboard. This dashboard allows user to see eTransaction count for the selected duration for various Mission Mode Projects under various States.

User can also view different Mission Mode Projects and distribution of various services under these Mission Mode Projects on basis of total eTransaction count on a Heat Map.

This is shown in **Figure-15**
Menu Bar

The Home page of eTaal shows two “Menu Bar” - “Left menu Bar” and “Right menu Bar”.

8.10 Left Menu Bar

“Left Menu Bar” Contains:

1. eTransactions view
2. Report
3. Service directory
4. State Portal
5. FAQ

8.10.1 eTransactions View

User can view eTransaction count for Central and State Government projects, various standard services, etc. by clicking on ‘eTransaction View’ as shown in Figure-16.

![Figure-16](image)

The eTransaction View tab includes the following (Figure-17):

1. Central Govt. Projects
2. State Govt. projects
3. Standard Services
4. Mission Mode Project
5. Across The Counter
6. NOFN

7. Categories

![Central Govt Projects - State Govt Projects - Standard Services - Mission Mode Projects - AcrossTheCounter - NOFN - Categories]

Figure-17

8.10.1.1 Central Govt. Projects

‘Central Govt. Projects’ is the default option displayed under eTransactions view. It shows two radio buttons - “Union Ministries” and “Central Govt. project”.

**Union Ministries** –

On clicking “Union Ministries” radio button, eTransaction count for all Union ministries will be displayed as shown in Figure-18

![Figure-18 example]

This page will display “Total no. of eTransactions” between two user-defined dates (From Date and To Date). User can view specific Display Type and Date wise Transactions for which the user needs to
select ‘**From date**’, ‘**To Date**’, and **Display Type**, and then click on ‘**Submit**’ button. Filter options are available at the bottom of the page.

This report can be viewed in

- Tabular Data
- Column Chart
- Pie Chart

---

**Tabular Data**

If User wants to view eTransaction as ‘Tabular data’ user needs to select display type – “**Tabular Data**” from display type option. Tabular data of eTransaction view is displayed in Figure-19.

![Figure-19](image)

User can change time period for displaying data by changing ‘From Date’ and ‘To Date’ by clicking on Submit button.

A Union Ministry can be clicked to further drill-down to view projects under that Ministry. E.g. all projects under ‘Ministries of Agriculture & Farmers Welfare’ are shown in Figure-20.
A project can be further drilled down to view all services under that project. E.g. on clicking the project “Kisaan SMS Portal”, user is shown all services under this project (Figure-21)

- **Column Chart**

If User wants to view eTransaction as ‘Column Chart’, user needs to select display type – “**Column Chart**” from display type option (Figure-22).
• Each 3D column bar depicts ‘Union Ministries’ identified by different color

• Height of each column bar shows total transactions occurred in that ministry, during the period specified by user

• Each Ministry can be clicked to further drill-down for details

• Projects under ‘Ministries of Finance’ are displayed in Figure-23

![Figure-23](image)

• Each project can be further drilled down to view services under that project. Services under ‘Digital Payment’ project are shown in Figure-24

![Figure-24](image)
- **Pie Chart**

If User wants to view eTransaction as ‘Pie chart’, user needs to select display type – “Pie Chart” from display type option (Figure-25).

- Each 3D Pie piece depicts Union ministries identified by different color
- Size of each Pie Piece shows total eTransactions recorded in that Ministry, as opposed to the total number of eTransactions recorded for all the ministries during the period specified by user
- Each Pie Piece can be clicked to further drill-down for details
- Pie chart of ‘Ministry of Railways’ is illustrated in Figure-26

- Ministry of Railways can be drilled down to view its services
‘Services of Railway Reservation’ is demonstrated in Figure-27

![Pie chart showing transactions]

Figure-27

**8.10.1.2 Central Government Projects**

On clicking “Central Government Projects” radio button, eTransaction count for all Central Government projects will be displayed (Figure-28).
Central Government Projects page will display "Total no. of eTransactions" between two user-defined dates (From Date and To Date). User can view specific Display Type and Date wise Transactions for which user needs to select ‘From date’, ‘To Date’, and Display Type, and then click on ‘Submit’ button. Filter options are available at the bottom of the page.

Three Types of Display are available –
- Tabular Data
- Column Chart
- Pie Chart

![Figure-28](image-url)
- **Tabular Data**

- If User wants to view eTransaction as ‘Tabular data’ user needs to select display type – “Tabular Data” from display type option (Figure-29)

![Tabular Data Table]

Figure-29

- Central Government Projects can be clicked to further drill-down for services as in earlier cases
**Column Chart**  
If User wants to view eTransaction as ‘Column Chart’, user needs to select display type – “Column Chart” from display type option (Figure-30).

**Pie Chart**  
If User wants to view e- transaction as ‘Pie chart’ user needs to select display type – “Pie Chart” from display type option (Figure-31).

* Each Pie Piece can be clicked to further drill-down for services
8.10.1.3 State Govt. Projects

The ‘State Govt. Projects’ tab enables the user to view eTransactions count of eServices under various States/UT.

- User can change time period for displaying data by changing ‘From Date’ and ‘To Date’ and clicking on Submit button
- Same data can be viewed in bar chart and pie chart by selecting appropriate option from Display-type drop-down located below the chart
- Each State/UT can be clicked to further drill-down for State/UT specific services

Three Types of display are available –
- Tabular Data
- Bar Chart
- Pie Chart

- **Tabular Data (for State govt. Projects)**

![Tabular Data](image)

Each state can be drilled down by clicking on State name to get the eTransaction count of all standard services of that particular State. E.g. when user clicks on ‘Andaman and Nicobar’, all Standard Services of Andaman & Nicobar UT are displayed (Figure-33).

![Figure-33](image)
• Same data can be viewed in bar chart as well as pie chart, by selecting appropriate option from Display Type drop-down located below the chart

• Each Standard Service can be further drilled down to view specific services under that Standard Service. E.g. when user clicks on ‘Standard service-Transport’, all services under this category are displayed (Figure-34)

![Figure-34](image)

- **Bar Chart (for State govt. Projects)**

Figure-35 illustrates the graphical representation of eTransaction count for State Govt. Projects in Bar Chart form.

![Figure-35](image)

• Each 3D column bar depicts States identified by different color
- Height of each column bar shows total transactions occurred in that State, during the period specified by user.

- Each State/UT can be clicked to further drill-down to view State/UT specific Services. When user clicks on State “Gujarat”, all Standard Services of Gujarat are displayed as shown in Figure-36.

![Figure-36](image)

- Standard Services can be drilled down to view specific services under that category. E.g. when user clicks on “Education”, all services under this category are displayed as shown in Figure-37.

![Figure-37](image)
**Pie Chart (for State Govt. Projects)**

Figure-38 shows transactions (State Govt. Projects) in Pie Chart form

- Each 3D Pie piece depicts States identified by different color
- Size of each Pie Piece shows total eTransactions recorded in that State, as opposed to the total number of eTransactions recorded for all the States during the period specified by user
- Each Pie Piece can be clicked to further drill-down for State/UT specific services. E.g. if user clicks on ‘Delhi’, all Standard Services of Delhi are displayed (Figure-39)
• Standard Services can be clicked to further drill-down for Services under that category. E.g. Transport services are displayed in Figure-40

<table>
<thead>
<tr>
<th>Service(s) of Transport under Delhi</th>
<th>Total no. of e-Transactions: 21,11,712</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.g.</td>
<td></td>
</tr>
<tr>
<td>Transport services are displayed in Figure-40</td>
<td></td>
</tr>
</tbody>
</table>

8.10.1.4 Standard Services

A large no. of eServices are offered throughout the country but the name of a particular service may vary across States. For ease of classification, grouping and presentation in a uniform manner, the services have been categorized into various Standard Services. It shows eTransactions count for both Central and State projects. The user can further drill down to see State wise details of the selected Standard Service (Figure-41).
• Same data can be viewed in bar chart and pie chart, by selecting appropriate option from the Display-type drop down located below the chart

• User can change time period for displaying data by changing From Date and To Date and clicking on Submit button

Standard Services can be drilled down to get the State view. Figure-42 shows drilled-down Service Classification of the service ‘RTI’. It shows eTransaction count for all States for RTI eService.
The State/UT can further be drilled down to get the Service view of that state for the selected Standard Service. Figure-43 shows Services of Assam under RTI.

![Figure-43](image)

**8.10.1.5 Mission Mode Projects**

This option enables the user to view the eTransactions count for various Central and State MMPs across the nation. Figure-44 shows eTransaction count of all Mission Mode Projects integrated with eTaal in tabular form.

![Figure-44](image)

- Same data can be viewed in bar chart and pie chart, by choosing appropriate option from Display-type drop-down located below the chart
- User can change time period for displaying data by changing From Date and To Date and clicking on Submit button
• A Mission Mode Project can be drilled down to get the status of that project across various states. Figure-45 shows drilled-down view of e-Panchayats Mission Mode Project.

![Figure-45](image)

• Same data can be viewed in bar chart and pie chart, by choosing appropriate option from Display-type drop-down list located below the chart.

• User can change time period for displaying data by changing From Date and To Date and clicking on Submit button.

A State can further be drilled down to get the Service view of that state for the selected Mission Mode Project. Figure-46 shows Standard Services of Kerala State under e-Panchayats MMP.

![Figure-46](image)

8.10.1.6 Across The Counter

“In several instances, the relevant information is proactively, collected, digitized, verified and stored in digital repository. These services are delivered across the counter as and when requested by citizen. E.g. Record of Right (ROR)” Figure-47 shows the states providing across the counter services.
Figure-47

- Same data can be viewed in bar chart and pie chart, by selecting appropriate option from the Display-type drop-down located below the chart.

- User can change time period for displaying data by changing From Date and To Date and clicking on Submit button.

A State can be drilled down to view all Across the Counter Services provided by that particular State. Figure-48 shows all such services for Daman and Diu State.

Figure-48

- Same data can be viewed in bar chart and pie chart, by selecting appropriate option from the Display-type drop-down located below the chart.
• User can change time period for displaying data by changing From Date and To Date and clicking on Submit button

8.10.1.7 NOFN

This option includes all services under National Optical Fiber Network (NOFN). It provides State wise, District wise, Block wise and services wise transaction count. Figure-49 shows State wise transaction count.

![Figure-49](image)

• Same data can be viewed in bar chart and pie chart, by choosing appropriate option from Display-type drop-down located below the chart

• User can change time period for displaying data by changing From Date and To Date and clicking on Submit button.

• User can drill down states providing eServices through NOFN to view District wise eTransaction count. This is shown in Figure-50

![Figure-50](image)

• Same data can be viewed in bar chart and pie chart, by choosing appropriate option from Display-type drop-down located below the chart
• User can change time period for displaying data by changing From Date and To Date and clicking on Submit button

User can further drill down Districts providing eServices through NOFN to view Block wise transactions. This is illustrated in Figure-51.

Figure-51

A Block can further be selected to view all eServices of that Block through NOFN (Figure-52).

Figure-52

8.10.1.8 Categories

To facilitate better analysis & more effective decision making services have been classified into six categories : A, B, C, D, E and F:

1. A-Statutory and Non Statutory Services
2. B-Utility Bill payments
3. C-Business to Citizen (B2C) Services
4. D-Information Services
5. E-Social Benefits
6. F-Mobile Governance
Figure-53 shows eTransaction count for all six categories for the selected period in tabular form.

![Table showing eTransaction count](image)

Figure-53

If a Service Category is selected, user can view eTransaction count for all States under this particular category. Figure-54 shows drilled-down view of category B service “Utility Bill payments”.

![Table showing State-wise eTransaction count](image)

Figure-54

User can further select a State to view all Services under the category selected for this particular State. Figure-55 shows drilled-down view of all services under category ‘B’ for Chandigarh State.
Same data can be viewed in bar chart as well as pie chart, by choosing appropriate option from Display-type drop-down located below the chart.

8.10.2 Report

The Report tab on Left Menu Bar lists various reports generated on the basis of the services eTransaction count (Figure-56).

When user clicks on report option, a pop up comes with lists all reports that are generated (Figure-57).
8.10.2.1 State Wise Transaction per 1000 Population Report

This report provides details of eTransactions captured for per 1000 population of each of the 36 States/UTs as per the format shown in Figure-58. The user needs to select the date range for the period for which the report needs to be generated, and then click on ‘Generate Report’ Button.

On the selected date range, the report is generated as displayed in Figure-59. It shows population for all States/UTs, total eTransaction count for the period selected and average eTransaction per 1000 population.
8.10.2.2 Central/State Wise Transaction per Services

This report provides average number of eTransactions under an eService for a particular Central project/State/UT. It also gives % share of eTransactions for different Central projects/State/UT.

User can select and generate the report under following two categories:
1. Central Wise Report
2. State Wise Report

Figure-60 provides the search parameters available to users for generation of report. User needs to select the date range for the period for which the report needs to be generated.
Figure 60

1. **Central Wise Report**

Figure 61 provides view of Central wise report generated for a selected period. The report lists count of eServices for all Central projects for the selected time period along with count of eTransactions. Further, the report calculated average number of transactions per service for each Central Project for the selected time period.

The report can be sorted by the user in ascending or descending order to view the ranking of the Central Projects on the basis of eTransaction % share.
2. State wise report
This report gives eTransaction count per services for each State/UT for the selected time duration (Figure-62).
8.10.2.3 Central/State Category Wise Report

This report provides the details of number of eTransactions captured under various categories of e-Services (A, B, C, D, E, and F) for the Central and State Projects.

The User has the option to select and generate the report under following two categories:
1. Central Wise Report
2. State Wise Report

Figure-63 provides the search parameters available to Users for the generation of report for Category Wise Transaction for Central and State Projects. The user has the provision to select the date range for the period for which the report needs to be generated.

![Figure-63](image-url)
1. Central Wise Report

![Central Wise Report in eTAAL 2.0]

Figure-64
There is a provision for users to sort the report in ascending or descending order to view the ranking of the Central Projects on the basis of the total count of eTransactions inclusive of all the categories (as shown in Figure-65).

Figure-65
2. State Wise Report

![Figure-66](image)

<table>
<thead>
<tr>
<th>State</th>
<th>Transactions</th>
<th>e-Transactions Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andhra Pradesh</td>
<td>34,000</td>
<td>8,000,000</td>
</tr>
<tr>
<td>Bihar</td>
<td>21,500</td>
<td>4,200,000</td>
</tr>
<tr>
<td>Chhattisgarh</td>
<td>32,000</td>
<td>6,400,000</td>
</tr>
<tr>
<td>Delhi</td>
<td>21,000</td>
<td>4,200,000</td>
</tr>
<tr>
<td>Gujarat</td>
<td>60,000</td>
<td>12,000,000</td>
</tr>
<tr>
<td>Haryana</td>
<td>35,000</td>
<td>7,000,000</td>
</tr>
<tr>
<td>Himachal Pradesh</td>
<td>10,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Jammu and Kashmir</td>
<td>5,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Karnataka</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
<tr>
<td>Kerala</td>
<td>25,000</td>
<td>5,000,000</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>25,000</td>
<td>5,000,000</td>
</tr>
<tr>
<td>Maharashtra</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
<tr>
<td>Manipur</td>
<td>10,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Meghalaya</td>
<td>5,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Mizoram</td>
<td>8,000</td>
<td>1,600,000</td>
</tr>
<tr>
<td>Nagaland</td>
<td>10,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Odisha</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
<tr>
<td>Punjab</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
<tr>
<td>Tamil Nadu</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
<tr>
<td>Telangana</td>
<td>10,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Tripura</td>
<td>5,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Uttar Pradesh</td>
<td>20,000</td>
<td>4,000,000</td>
</tr>
<tr>
<td>Uttarakhand</td>
<td>10,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td>West Bengal</td>
<td>30,000</td>
<td>6,000,000</td>
</tr>
</tbody>
</table>

**Total**: 180,000 transactions, 36,000,000 e-Transactions
There is a provision for users to sort the report in ascending or descending order to view the ranking of the State Projects on the basis of the total count of eTransactions inclusive of all the categories (as shown in Figure-67).

![Figure-67](image-url)
8.10.3 Service Directory

The ‘Service Directory’ option is located on the left menu Bar as shown in Figure-68.

![Figure-68](image)

It provides list of eServices being delivered across the country. Users can search for relevant services on the basis of following search parameters (Figure-69):

i. Type i.e. State, Ministry
ii. Select the relevant State
iii. Category
iv. Standard Service
v. Service Name

![Figure-69](image)
8.10.4 State Portal

The ‘State Portal’ tab is located on left menu Bar as shown in Figure-70.

A personalized portal for states and union territories by the name of “State Portal” is implemented on the eTaal website. It helps citizen in finding state level services grouped under a particular standard service.

The link “State Portal” on the eTaal dashboard, allows the users of different states to view their eTransaction counts, by clicking on a Particular state. When the user clicks on State Portal option, a pop up comes which shows eTransaction count for all States as shown in Figure-71.
Once user clicks on a particular State, the portal for that state opens in another window. “State Portal” of Madhya Pradesh shown in Figure-72.
9.1.4.1-Top 5 Projects-

The State Portal of eTaal displays names of “Top 5 Project” of particular State on the basis of the monthly transaction count.

Figure-73 shows eTransaction count of Top 5 Projects of Madhya Pradesh state.
By clicking on “View More” Tab, user can view “eTransaction-Project Analysis State wise” integrated with eTaal. This is displayed in Figure-74.

**Figure-74**

9.1.4.2-Top 5 Services-
The State Portal of eTaal displays Top 5 Services of particular State. Figure-75 shows Top 5 Services of Madhya Pradesh state.
By clicking on “View More” Tab, user can view “eTransaction-Services by State wise” integrated with eTaal. This is displayed in Figure-76.

By clicking on “Analysis” Tab, user can view “Project and Service wise State Analysis” integrated with eTaal. This is displayed in Figure-77.
9.1.4.3-Yearly Analysis-

The State Portal of eTaal displays “Yearly Analysis” of particular State. Figure-78 shows Yearly Analysis of Madhya Pradesh state.
By clicking on “View More” Tab, user can view “eTransaction Year wise” integrated with eTaal. This is displayed in Figure-79.

![Figure-79](image)

By clicking on “Analysis” Tab, user can view “State Wise Analysis” integrated with eTaal. This is displayed in figure-80(A), Figure-80(B), and Figure-80(C).

Analysis # 1:-

![Figure-80(A)](image)
Analysis # 2:-

![Graph showing Year Wise Transaction and State wise Analysis]

**Figure-80(B)**

Analysis # 3:-

![Graph showing Year Wise Transaction and State wise Analysis]

**Figure-80(C)**
9.1.4.4- Service Classification (figures in Cr.)-

The State Portal of eTaal displays “Service Classification” of particular State. Figure-81 shows Services Classification (in Cr.) of Madhya Pradesh state.

By clicking on “View More” Tab, user can view “eTransaction of Standard Services” integrated with eTaal. This is displayed in figure-82
8.10.5 Frequently Asked Questions

The ‘FAQ’ tab is located on the left menu Bar on eTaal Homepage as shown in Figure-83.

Figure-83

This section “Frequently Asked Questions” provides users with answers to some of the general queries pertaining to eTaal application. FAQs are shown in Figure-84

Figure-84

8.11 Right Menu Bar

“Right Menu Bar” Consists of-

1. Login
2. Signup
3. BI Analysis
4. Connect your Services
5. Contact Us

8.11.1 Login

The ‘Login’ tab is located on the Right menu Bar as shown in Figure-85.

In order to Login, user needs to click on this option. The login page will open where user will need to enter his/her ‘Username’, ‘Password’, and ‘CAPTCHA’ as shown in Figure-86.
8.11.2 Signup

The ‘Signup’ tab is located on the Right menu Bar as shown in Figure-87.

User needs to sign up first in case he/she is logging in first time on eTaal portal to create the login details. The signup page is displayed in Figure-88.

A new user can sign up as ‘State’, ‘Ministry’, or ‘Other’. For example if user selects the ‘state’ radio button, he/she will need to enter ‘state’, ‘Name’, ‘Email Id’, ‘Captcha Code’, ‘Designation’, ‘Contact No’ and click on ‘Signup’ Button. Once the user clicks on Signup button, the login details are shared with the user on his email id and phone number.
8.11.3 BI Analysis

The ‘BI Analysis’ tab is located on the Right menu Bar as shown in Figure 89.

There are four kinds of analysis dashboards available to the user (Figure-90):
1. Yearly Analysis
2. Service Analysis
3. MMP Analysis
4. State wise Analysis

8.11.4 Connect your services

The ‘Connect Your Services’ tab is located on Right menu Bar as shown in Figure-91.
This option pops up an information window for a new user. The information window is displayed in Figure-92. A new user who wants to integrate e-Services with eTaal need to sign up in order to create his/her login details. Once the user has his/her login credentials, he/she can login and begin integration of their eServices with the portal.

8.11.5 Contact Us

The ‘Contact Us’ tab is located on the Right menu Bar as shown in Figure-101, it will show the following details – (Figure-93)
The contact page is displayed in Figure-94. It provides user with helpdesk information in case user needs to inquire while integrating their eServices.
10. Service Enrolment

Service Enrolment is reserved for administrator for approving the Project entry, Service entry and Enrolment of web services by owner of the project. This option could be invoked only after login through eTaal Login as Shown in Figure-95.

![Figure-95](image)

The ‘Service Enrolment’ tab is located on the Left menu Bar as shown in Figure-96.
After click on “Service Enrolment” Tab following popup will open, as shown in Figure-97.

**Service Enrolment**

1. Sector/Project Entry
2. Service Entry
3. Modify Service
4. Web Service Enrolment

Figure-97

10.1 Sector/Project Entry

Entry of the project is done by the owner of the project. The owner needs to specify the Project name along with the person who has requested for the entry of it. Screenshot of the project entry page is shown in below Figure-98

Once all the details of the person along with the Project name are entered, it can be saved by clicking on the Save Button. Complete list of the projects can be viewed by clicking on the ‘Show List’ Button. Clear Button is used to clear the details already entered in the current screen. The Approve Button is used to approve the list and save it permanently in the database.
10.2 Service Entry

Entry of service is done by the owner of the project. He/she needs to specify the Service name along with the person who has requested for the creation of it. Screenshot of the service creation page is shown in below Figure-99.

Service creation consists of two sub-sections:

1. ‘Service Reported By and Service Details’ Section: In this section, details of the person who is reporting the service is entered. The name, designation, contact no. and email id is captured.
   
   Also, details of services are entered in following format:
   
   a. Select Project, Category (A, B, C, D, E, F), Major Service (Standard Service), Minor Service (Sub Standard Service).
   
   b. Enter local name of service to be added and brief description of the service.
   
   c. Check whether the service is across counter or mission mode project.

2. ‘eTransaction Benchmark’ Section: All the benchmark are required to be fulfilled by the eService to participate in eTaal which are as follows:

   a. Service is requested through electronic means including mobile devices.
   
   b. Workflow/approval process is electronic.
   
   c. Database is electronic/digitized.
   
   d. Service delivery is electronic.
10.3 Modify Service

After the successful creation of service by the owner under the “Service Entry” link as explained above, if required, the owner can modify the service details under the “Modify Service” link of Service Enrolment. The screenshot of the Modify Service screen is shown as below Figure-100

![Modify Service Screenshot](image)

Figure-100

10.4 Web Service Enrolment

Web service can be registered by owner of the project. He/she needs to register the Web Service along with the details. This module is smart enough to identify and verify the correctness of the input parameter and output parameter. Web service enrolment page is shown in below Figure-101

![Web Service Enrolment Screenshot](image)

Figure-101
Data exchange in eTaal is based on web service. This page is used to add new web services/URLs in following steps:

1. Select type of web service: Whether it is Web Reference Based or Web URL based.
2. Select State and Project Name.
3. Enter the complete URL of web service.
4. Enter ‘Web Service Name’ (Name of the class used in web service) and press ‘Invoke Service’.
5. System will show all the methods available under selected web service.
6. Select the desired method name, system will show all the input parameters available under that selected web method. At the same time, it shows Return type of the method.
7. It provides Test Area which accepts the value of the input parameter and tests the output of the service using ‘Get Data’ button.
8. Click on ‘Save URL’ button to save the web service in eTaal application.

Once the entire process as stated above is complete, the service is ready for integration with eTaal. Before integration, the eService is subject to validation and approval by the National Level Project Management Committee (PMC). Similar Committees exist at the level of States and UTs.
11. Approval

Steps for Service Approval by State Project Management Committee

For the Approval/Rejection/Modification of the service as enrolled by the User, the State Admin needs to login to eTaal using its login credentials. The login screenshot is shown as below Figure-102

Once logged in, the State Admin is required to click on the Approval tab in the menu bar as shown in below Figure-103
The State Admin needs to review the service details and accordingly click on Approve/Reject/Modify by clicking on Radio Button as shown in the below Figure - wherein;

A – Approve
R – Reject
M – Modify

![Figure-104]

The State Admin can review the services and accordingly “Accept”, “Reject” or “Modify” the service. In case of Approval of service by the State Committee, the State Admin needs to select the radio button “A” and on clicking the “Submit” button, this service is forwarded to National eTaal Committee for approval.

For the approval of service, the service needs to be approved by at least two State Committee members. The State Admin needs to enter Remarks in case if “Reject” or “Modify” is selected, highlighting reason for rejection or modification of the service requested.

The service needs to be rejected / approved by at least two out of three State committee members while it can be requested for modification by any one member.
12. Technical Specifications of eTaal

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Microsoft Technologies with WCF, ASP.NET Framework 4.5, C#.Net</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows Server 2016 R2 Enterprise Edition</td>
</tr>
<tr>
<td>Database</td>
<td>SQL Server 2017 R2</td>
</tr>
<tr>
<td>Analytical Tool</td>
<td>Power BI</td>
</tr>
<tr>
<td>Browser Supported</td>
<td>Mozilla Firefox 60 or above, Chrome 60 or above, IE 11 or above</td>
</tr>
<tr>
<td>Reporting</td>
<td>HTML Reporting</td>
</tr>
<tr>
<td>Minimum System Specification</td>
<td>Any desktop, laptop, tablet and mobile phones (Android/Windows/iOS, etc.) with internet Access</td>
</tr>
<tr>
<td>Unicode Compliant</td>
<td>Yes</td>
</tr>
</tbody>
</table>
13. Architecture

eTaal is broadly categorized into the following three components:

1. Dashboard Server Connector (DSC)

   Dashboard Server Connector (DSC) runs as a service on Central Server and acts as watchdog to pull the eTransaction count from various servers located at State and Centre.

2. Dashboard Client Connector (DCC)

   Dashboard Client Connector (DCC) runs as a service on the Servers which are providing the eTransaction count details.

3. eTaal Portal

   eTaal Portal is a web portal to give view of dashboard.

   Architecture of eTaal as shown in following Figure-105

   ![Diagram](image)

   Figure-105

   In the architecture of eTaal drawn above, one DSC and multiple DCCs exists. One DCC is for each application.
14. Guidelines

This section provides guidelines for application administrator / developer to create Client Connector and deploy on their servers.

14.1 Prerequisites for participation in eTaal

1. Server on which the data that needs to be integrated with eTaal resides must be on Internet.
2. The application whose data needs to be integrated with eTaal may be on any operating environment (Windows/Linux; SQL Server/Oracle/MySQL/PostgreSQL; .Net /Java/PHP etc.)

14.2 Steps for creation of Client Connector

Client Connector may be Web Service, WCF service or URL based data sharing application. Client Connector may be written in any language (C#, VB.Net, Java, PHP etc.). Creation of Client Connector will consist of following steps:

1. Creation of Web Service or WCF service or URL based data sharing application
2. Creation of ‘Stored Procedure’ in the database which will give count of eTransaction to web connector
3. Writing of the code to access stored procedure created to get the eTransaction count.

Figure-106

14.3 Specifications of Client Connector

The specifications of Client Connector are given below:

Web Method Name: eTransaction Count

Input Parameters: The web method created for the purpose will have following parameters:
Response Type: The web method will return either XML or dataset.

Format of XML:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<eTaal_State>
  <Response ServiceCode="A001102200002" Count="23" LocationCode="08"/>
  <Response ServiceCode="C008104800004" Count="56" LocationCode="09" />
  <Response ServiceCode="B05104200005" Count="92" LocationCode="13" />
  <Response ServiceCode="A016105900007" Count="31" LocationCode="31" />
</eTaal_State>
```

Format of dataset:

This will have following set of data: ServiceCode, ServiceCount, Location Code

Error Code Returned by Service

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Error Code</th>
<th>Error Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-1</td>
<td>Transaction Date parameter is missing</td>
</tr>
<tr>
<td>2</td>
<td>-2</td>
<td>Wrong credentials</td>
</tr>
<tr>
<td>3</td>
<td>-3</td>
<td>Data is not available on this date</td>
</tr>
</tbody>
</table>

14.4 Development and hosting environment

1. Client Connector can be created in any of the programming language i.e. Java, C#, VB.Net, PHP etc.
2. It can be hosted on any web server i.e. IIS, Apache Tomcat etc.

14.5 Post deployment steps

1. The port on which the service is running is required to be opened for eTaal Server Connector.
2. Share the URL of **Web Service** with UserName and Password to eTaal Administrator.

14.6 Data pulling mechanism and assumptions

Enrolment of web service by user

1. Web service is created by user and hosted on server where project (State/Central) related data resides.
2. Port opening request is made to provide communication between servers (i.e. from Project server to eTaal server).
3. Enrolment of web service is done from enrolment page (in Admin Corner) of eTaal.

**eTaal Process of data pulling from a project**

1. Port opening request is made to provide communication between servers (i.e. from eTaal server to the project server).
2. Approval of registration by Project Management Committee (PMC).
3. eTaal fetches data on daily basis by invoking web service with current date as parameter and following data is obtained:
   a. List of services provided by project on given date.
   b. Transaction count.
   c. Date of transaction.
   d. Location Code as per census (if any).
4. The Process of invoking web service is done as per schedule determined by the user during enrolment and data is updated (in case of zero transaction of service, no data is updated) in eTaal.
5. For projects having irregular data updating services, web service is invoked by eTaal, it will check for last update (date/time) and pull data from that date.
6. Reconciliation of data between eTaal and project server to be combined once a week.

**Assumptions**

1. The web service could be hosted on live server or on intermediate server, as defined during enrolment.
2. Data updated on the project server is accumulative during the day and is reset to zero at 00:00 hrs.
14.7 Sample Codes

Sample Code in .Net

Interface

```csharp
[ServiceContract]
public interface IeTaalService
{
    [OperationContract]
    [FaultContract(typeof(InvalidCodeFault))]
    int eTransactionCount(DateTime TransactionDate, String UserName, String Password);
}
```
Implementation of Interface

```java
public class eTaalService : IetaalService
{
    #region Call StoreProcedure and Fetch Transaction

    public DataSet eTransactionCount(DateTime TransactionDate, String UserName, String Password)
    {
        try
        {
            var parms = new SqlParameter[3];
            parms[0] = new SqlParameter("@TransactionDate ", TransactionDate);
            parms[1] = new SqlParameter("@UserName", UserName);
            parms[2] = new SqlParameter("@Password", Password);
            return (SqlHelper.ExecuteDataset(ConnectionString, CommandType.StoredProcedure, "sp_eTransactionCount", parms));
        }
        catch (Exception ex)
        {
        }
    }
}
```

Sample Code in Java

```java
package in.nic.exchange.action;
import in.nic.exchange.db.DBCConnection;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import java.util.HashMap;
public class ExchangeWebService {

    public ArrayList< HashMap<String, Float> > countRegistrationsActivityWise(Date date) {
        connection con = null;
        PreparedStatement pstmt = null;
        ResultSet rs = null;
        System.out.println("(select * from dashboard where trndate = ?) db on db.activity=ra.code group by ra.code,ra.name order by ra.code);
        String query = "select name, sum(Transactions) as total_trns from refactivity ra left join (select * from dashboard where trndate = ?) db on db.activity=ra.code group by ra.code,ra.name order by ra.code"; 
        SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
        String d = formatter.format(date);
        ArrayList< HashMap<String, Float> > result = new ArrayList< HashMap<String, Float> >();
        HashMap<String, Float > map = null;
        try {
            con = DBCConnection.getConnection("", ");
            pstmt = con.prepareStatement(query);
            pstmt.setString(1, d);
            rs = pstmt.executeQuery(query);
            System.out.println("query = " + query);
            while(rs.next()) {
                map = new HashMap<String, Float >();
                map.put(rs.getString("name"), rs.getFloat("total_trns"));
                result.add(map);
            }
            catch (SQLException sqle) {
                sql.printStackTrace();
            } catch (Exception e) {
                e.printStackTrace();
            } finally {
                try {
                    rs.close();
                    pstmt.close();
                    con.close();
                } catch (SQLException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }
        }
    }
}```
```java
public float countRegistrations(Date date) {
    Connection con = null;
    Statement stmt = null;
    ResultSet rs = null;
    System.out.println("date = " + date);
    String query = "select sum(transactions) as trns from dashboard where trndate='" + date + ";"
    SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
    String d = formatter.format(date);
    System.out.println("date = " + date);

    try {
        con = DBConnection.getConnection("", ");
        stmt = con.createStatement(ResultSet.Type_SCROLL_INSENSITIVE, ResultSetConcurrency.UPDATABLE);
        query += d + ""
        rs = stmt.executeQuery(query);
        System.out.println("query = " + query);
        if (rs.next()) { return rs.getFloat("trns"); }
        else { return 0; }
    }
    catch (SQLException sqle) { sqle.printStackTrace(); }
    catch (Exception e) { e.printStackTrace(); }
    finally {
        try {
            rs.close();
            stmt.close();
            con.close();
        }
        catch (SQLException e) { // TODO Auto-generated catch block 
            e.printStackTrace();
        }
    }
    return 0;
}
```
15. Analysis

There are various analytic charts available on the eTaal portal. User can access them by simply clicking on the icon located on the upper left hand corner of the eTaal Home page as shown in Figure-107.

![Figure-107](image)

As soon user clicks this icon, a menu is displayed as shown in Figure-108.

![Figure-108](image)
Analytic Charts are available under the following categories (Figure-109):

1. Time Line Analysis
2. Comparative Analysis
3. Analysis of Services
4. Yearly Analysis
5. Central Project Analysis
6. MMP Analysis
7. Service Analysis
8. State Wise Analysis
9. State Wise MMP Analysis
16. Awards

The “Awards” section on Homepage highlights details of the awards won by eTaal project since its inception. The Award icon and page is displayed in Figure-110.
17. News

The “eTaal News” section on Homepage highlights news articles and announcements regarding eTaal as published on Government media channels. The News icon and page is displayed in Figure-111.

![Figure-111](image)

**18. Select Language Tab**

The Select Language tab is located on the main menu bar on eTaal Homepage as shown in Figure-112.

![Figure-112](image)

This option allows the user to view portal in English or Hindi language as per their requirement.
19. Workshops Of eTaal 2.0

- eTaal 2.0 workshop at Vijayawada, Andhra Pradesh on 27.11. 2018.
- eTaal 2.0 workshop at Hyderabad, Telangana on 28.11.2018

![eTaal 2.0 workshop at Vijayawada](image1)

![eTaal 2.0 workshop at Hyderabad](image2)
20. eTaal Testimonial

Shri J Satyanarayana
IT Advisor to CM & Chairman, UIDAI

eTaal has brought several benefits like measurability leading to better management, visibility, ranking and healthy competition. eTaal has become a trendsetter in establishing similar real-time dashboards. It has the potential to take a great leap by incorporating the quality parameters of the Digital Service Standard. Compliments to the eTaal team for implementing such a useful and sustainable initiative.

Shri Yashwant A. Goswami
Member (Project Management) eCommittee
Supreme Court of India

Among first few things I do after coming to office is to visit etaal.nic.in. eTaal is a great platform developed for people who wish to see updated information every day. Analytical information provided on the web site is a step advance.
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