



A Hackathon on Creation of Dashboard for CRCS portal

सी आर सी एस पोर्टल के लिए डैशबोर्ड के निर्माण पर एक हैकथॉन

PROPOSED SOLUTION

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2. Participant Name: KEERTHANA J

3. Problem Statement:

The Central Registrar for Cooperative Societies (CRCS) is responsible for registering and regulating multistate cooperative societies in India, in accordance with the MSCS Act of 2002. As part of this hackathon, the task is to design and develop a comprehensive dashboard for the upcoming new CRCS portal that will streamline the registration process, handle amendments and appeals, and manage annual returns for the registered societies.

4. Brief Summary of the Proposed Dash Board:

- A highly interactive and comprehensive dashboard has been designed for the visualization of the given dataset and the user interface is quite simple and easily understandable.
- It defines the purpose, identifies the key metrics, and establishes a clear visual hierarchy to guide the user's attention to the most important information.
- The visualizations used are Line and stacked column charts, Pie charts, Area charts, Donut charts, slicers (dropdowns, tiles, and vertical lists), and Line charts.
- The map is also displayed in the dashboard for providing a clear understanding.
- It integrates interactivity, ensures responsiveness, and maintains simplicity.
- It includes concise and meaningful titles, captions, and tooltips to provide context and guide users' understanding of the data.
- It is an effective dashboard design that involves striking a balance between aesthetics and functionality, ensuring that the data is presented in a way that is visually appealing and provides valuable insights to the users.



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5. Tech Stack:

Hardware requirements:

- Processor: 64-bit, 1.4 GHz or faster with at least two cores
- RAM: 2 GB (recommended 4 GB or more for better performance)
- Hard Disk Space: 10 GB of free space

Software requirements:

- Power BI Desktop
- Microsoft Account
- Operating System: Windows 10, Windows Server 2012 R2, or later versions

6. Overview of the Dash Board:

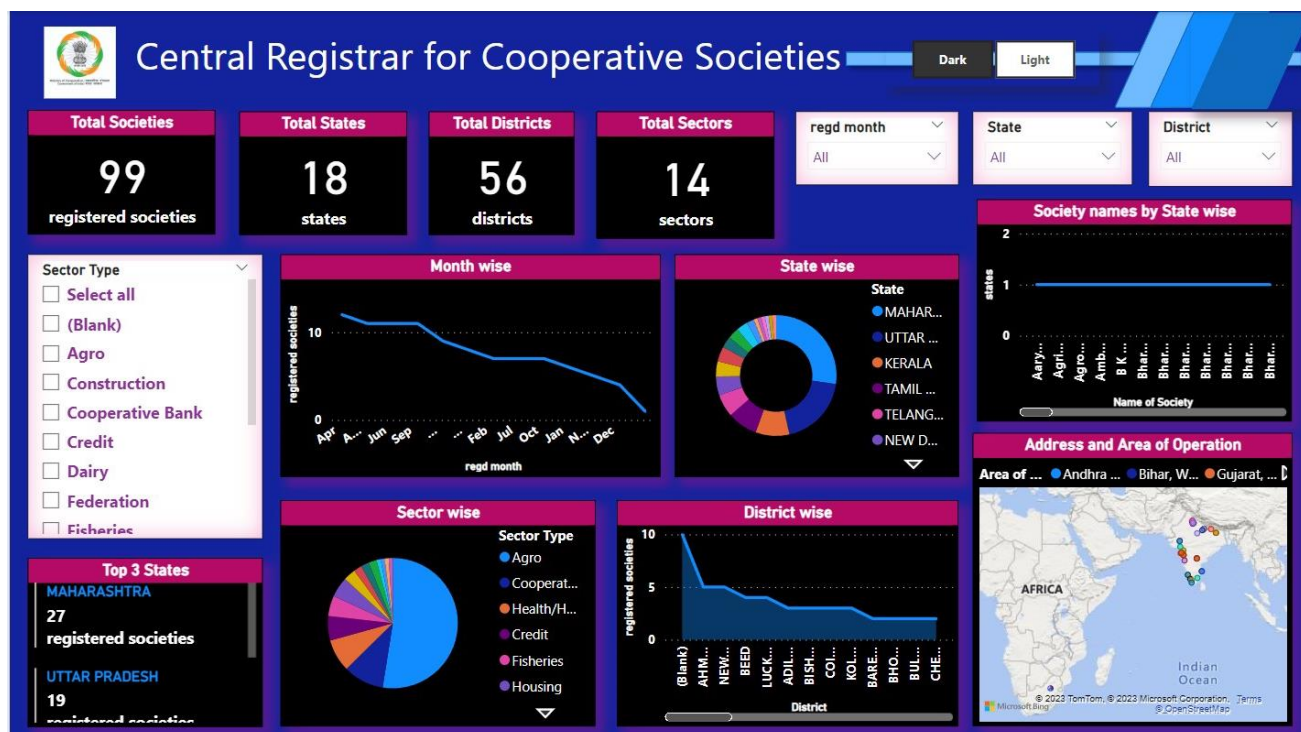


Fig 1: Home page of the Dash Board (Dark Theme)



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Fig 2: Applying Drill through option for a sector (Light theme)

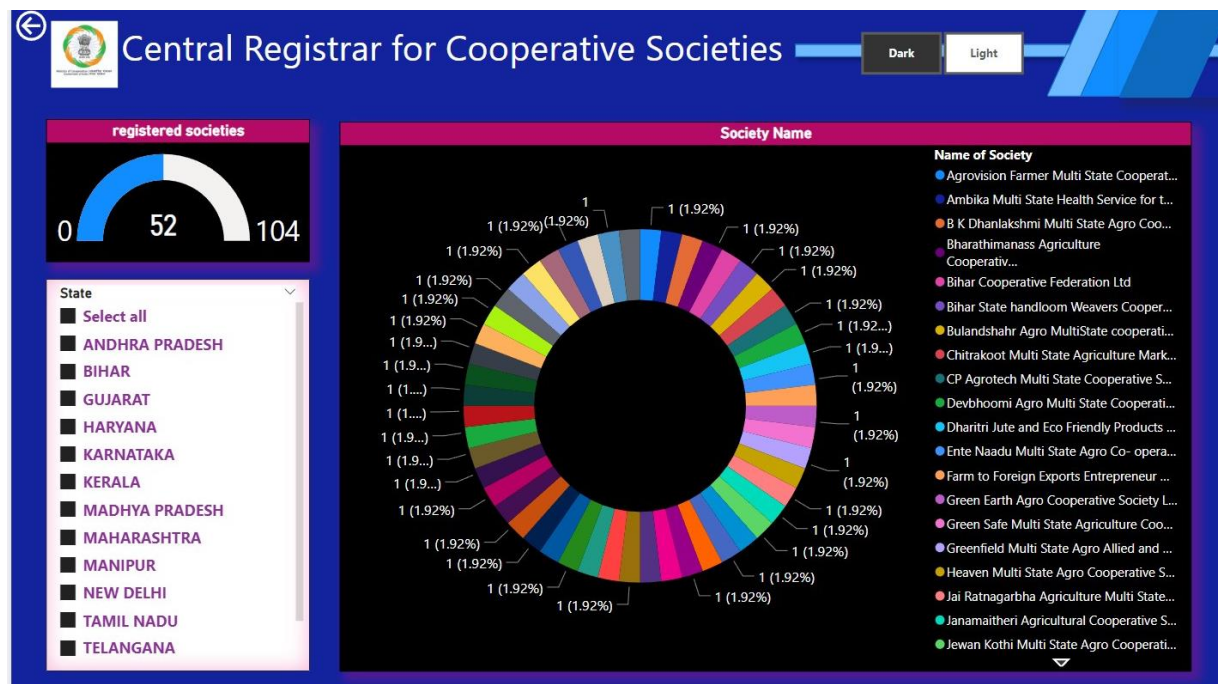


Fig 3: Total registered societies and their names, the involved States are displayed according to the selected sector type



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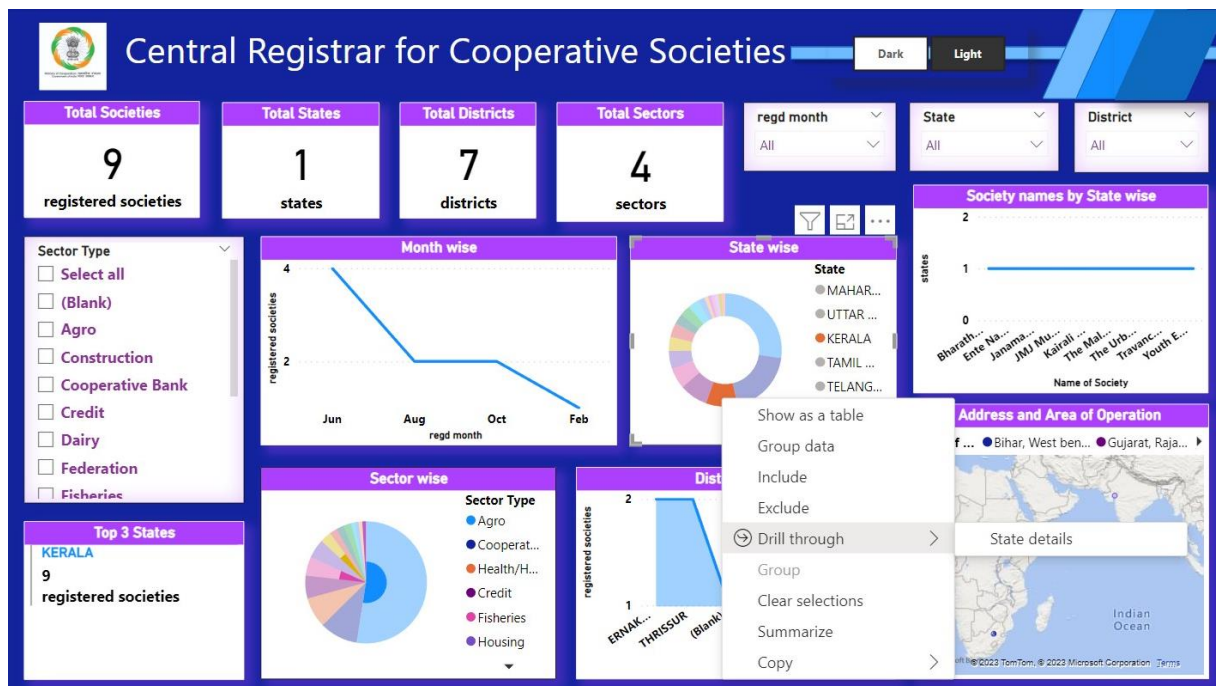


Fig 4: Applying Drill through option for a State



Fig 5: Total registered societies from the selected state, their names and their sector types, distribution between the societies with the involved states and district, and Top 3 districts of the State are displayed



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Fig 6: Total registered societies and their names, the involved sectors are displayed according to the selected Month

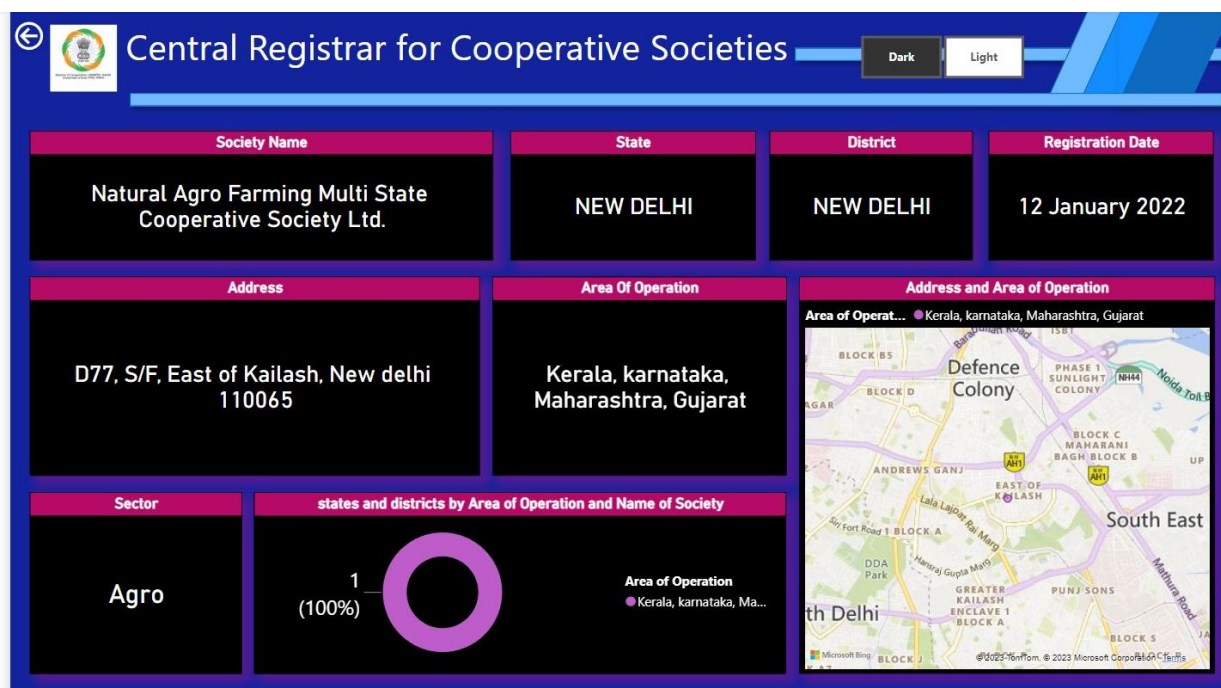


Fig 7: Entire details of the Selected Society are displayed



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7. Key Features of the Dash Board:

Themes available: Dark and Light Theme

The home page of the Dash Board displays the following data:

- Count of total registered societies
- Count of total registered states
- Count of total registered districts
- Count of sector types
- The number of registered societies month-wise is displayed as a line chart
- The number of registered societies state-wise is displayed as a donut chart
- The number of registered societies district-wise is displayed as an area chart
- Society names with the involved number of states is being displayed as a line chart
- Pie chart representation of sector types
- Top 3 states according to the count of registered societies are displayed after applying the filters
- Map for address and the area of operation is being displayed

Selection filters are available for:

- Sector type
- Registered month
- State
- District

Drill-through options are provided for:

- Sector field
- Name of the society
- Regd (registration) month field
- State field

Description of Sector Details page:

According to the selected sector, the following data will be displayed :

- Total number of registered societies
- Name of society
- Involved states

Description of Society Details page:

According to the selected society, the following data will be displayed :

- Name of the society
- Involved state
- Involved district



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- Registration date
- Address of the society
- Area of operation
- Sector type
- Location of Address and Area of Operation

Description of regd month page:

According to the selected month, the following data will be displayed :

- Count of societies registered in that month
- Selected month
- Name of society in accordance with the number of districts they cover
- Name of society in accordance with the sector type and number of sectors
- Count of societies sector wise

Description of State Details page:

According to the selected state, the following data will be displayed :

- Count of societies registered from that state
- Selected state
- Distribution of count of societies with their district and sector type
- Distribution of the involved sectors
- Distribution of the Name of the society with their involved district
- The involved sectors is displayed as a dropdown which can be used for filtering purpose
- Top 3 districts of the state according to the count of registered societies
- Location of the address and the area of operation of the societies

8. Important Links

Proposed design in pdf format :

Dark Theme:

https://drive.google.com/file/d/1iOm51RFGp2CLHwkJsWLbjnnbpNUj9u_L/view?usp=sharing

Light Theme :

<https://drive.google.com/file/d/1CH-ujNMIIBkAKwCJkklUM1wyctb9dYiM/view?usp=sharing>

Power BI File (.pbix file):

https://drive.google.com/file/d/1eOhx1IidyeGt7j_bxKPXwcTvfaPRx2bV/view?usp=sharing

Demo Video Link :

<https://drive.google.com/file/d/16e24Lp5C7s1yEki6ZHba4eRhFdcZ1Xmk/view?usp=sharing>