

# Case Study for Electricity Board

## Full Stack Developer- Submission

### Introduction:

Documentation for the Fullstack Web Application designed according to case study requirement for an electric board.

This comprehensive web application is tailored to meet the evolving needs of the electricity sector by providing an efficient platform for managing connection requests and streamlining the workflow of the electricity board's staff.

**Note:** Refer README.md for installation

**Note:** Refer /screenshots folder for all screens of the application.

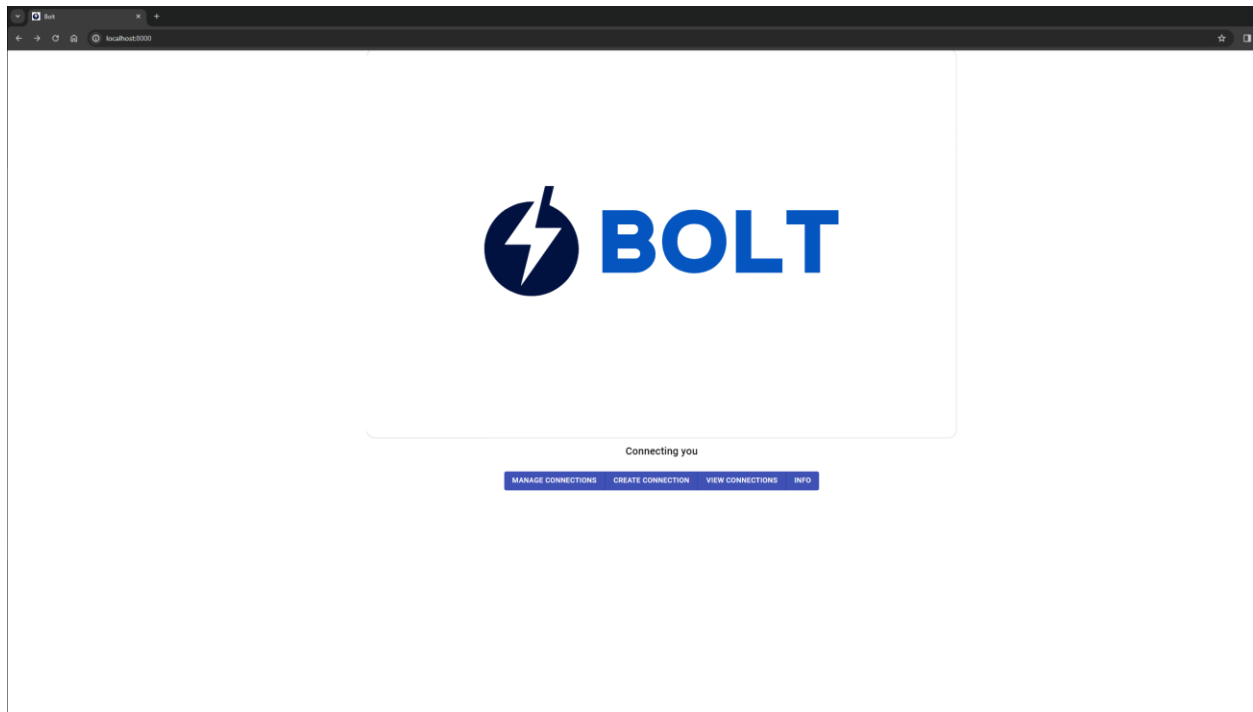
### Tech Stack:

Frontend - React, HTML, CSS, Javascript, Libraries{Material UI, HighCharts('highcharts-react-official')}

Backend - Django, Python

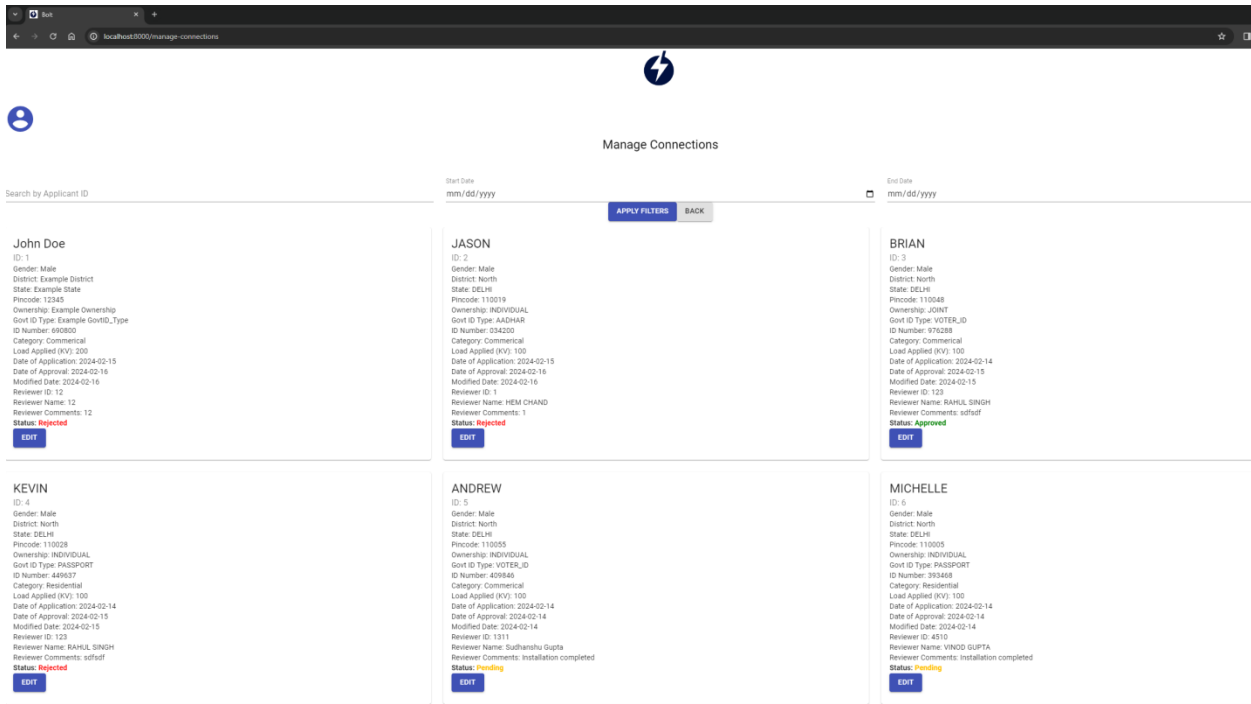
### Key Features -

#### Select Menu

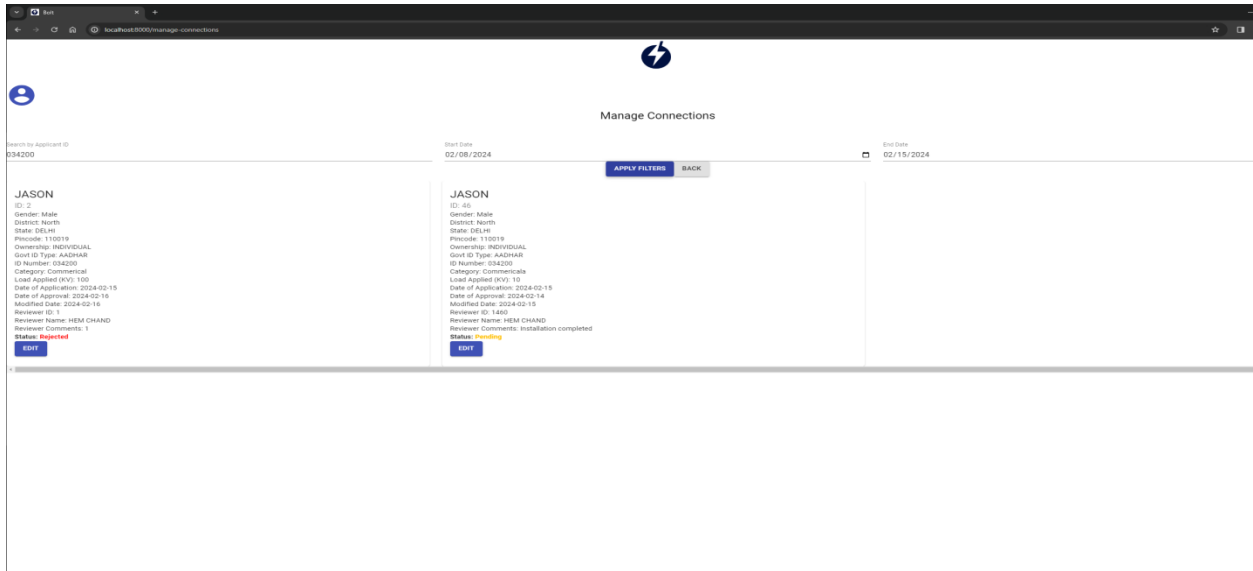


User can select from the given options to navigate through the application at the home page.

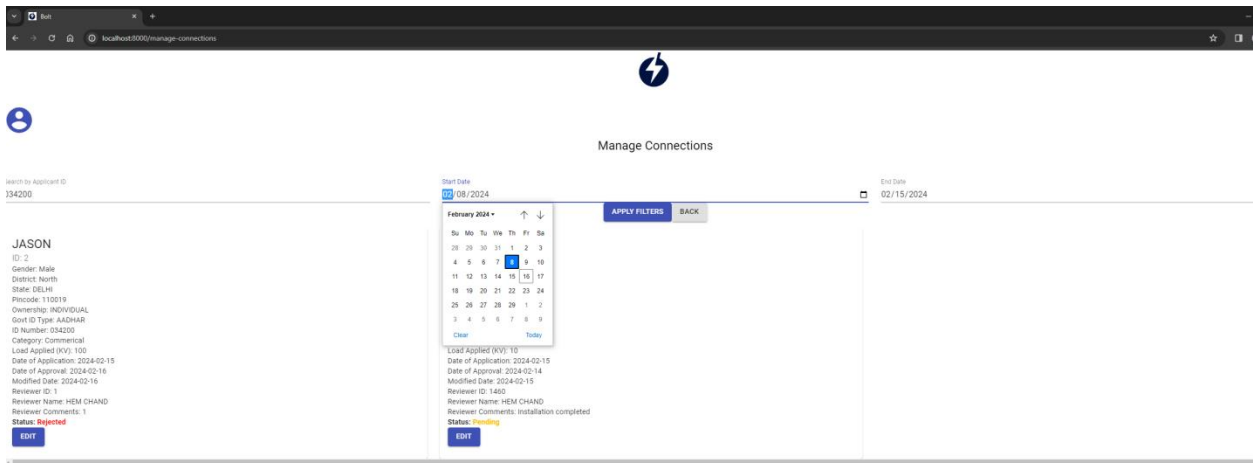
**Display Records:** The application presents connection records in a user-friendly grid or tabular format, facilitating easy access and navigation for staff members.



**Search Functionality:** Staff members can swiftly retrieve connection details using the Applicant ID and/or start date and end date search option, ensuring quick access to relevant information.



**Date Filtering:** A convenient date picker feature allows users to filter connection records based on the date range of application, enhancing data organization and retrieval.

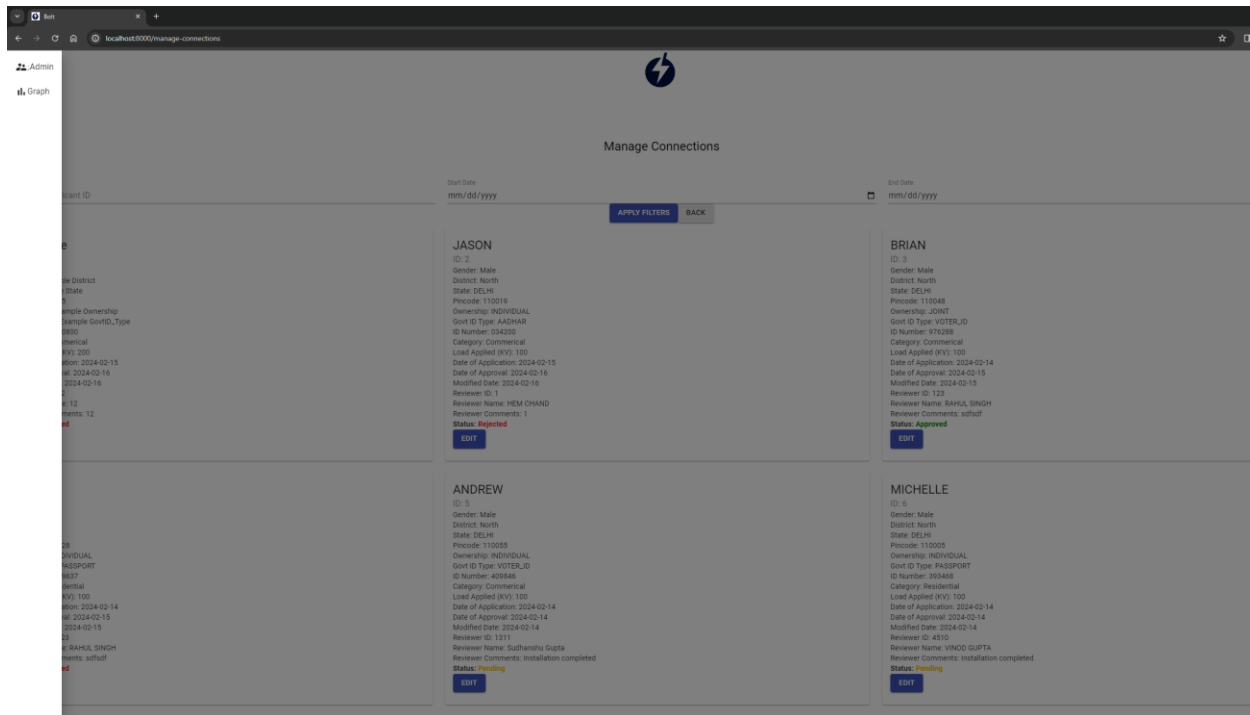


**View/Edit Requests:** Staff members have the capability to view and edit electricity connection application requests seamlessly. Whether it's reviewing application details or making necessary updates, the application offers a user-friendly interface for efficient management.



## Navigation Bar:

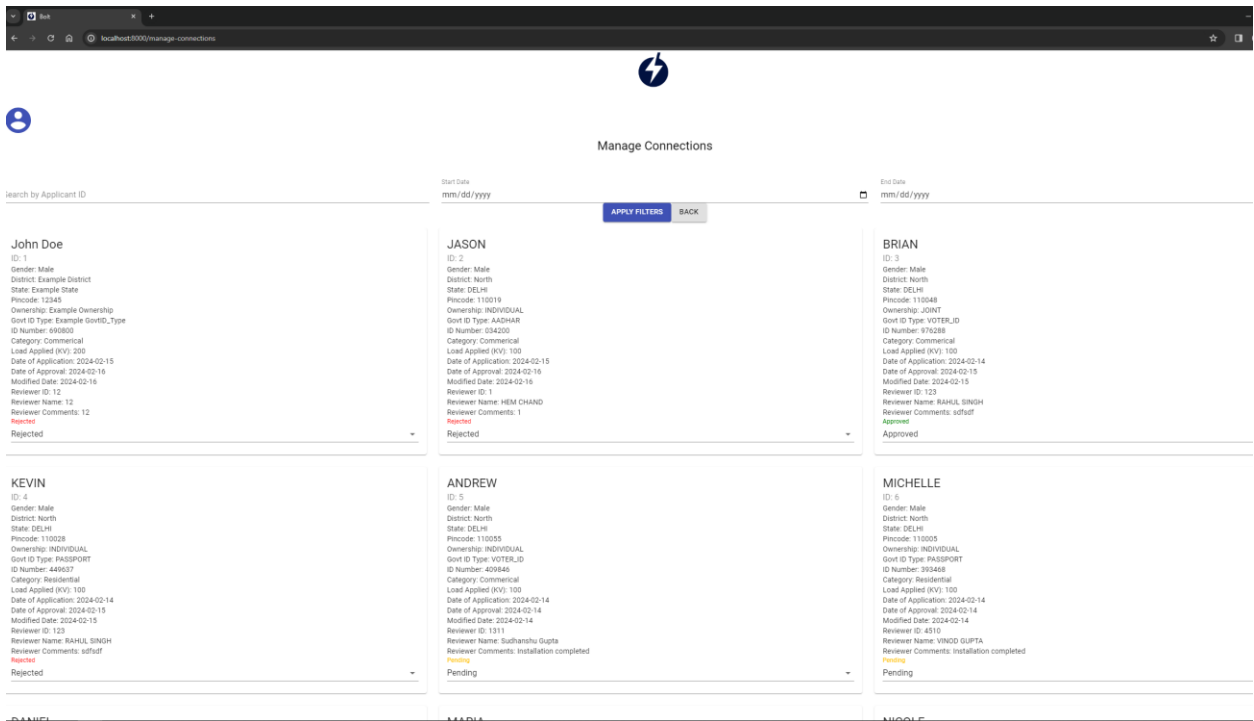
Users can select admin mode button or select the graph button to set admin mode or navigate to the graph page respectively.



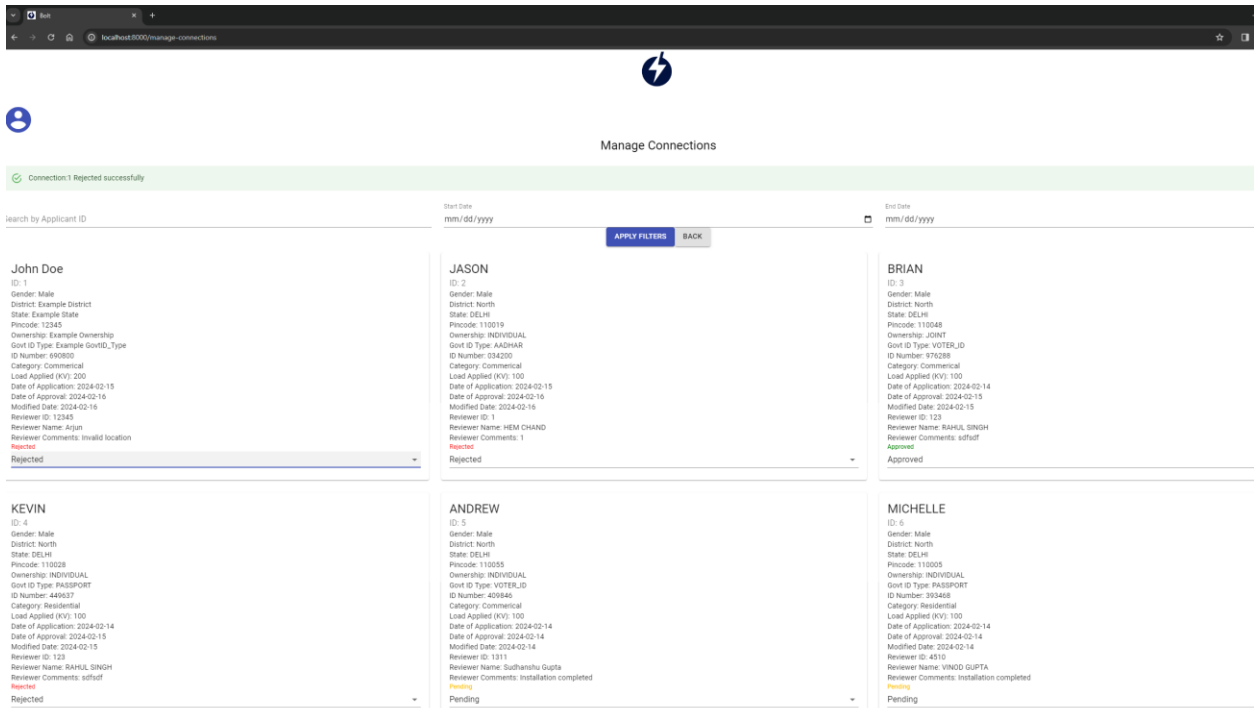
## Manage connections as admin:

Users can select admin mode button to set admin mode and get the option to set status of a connections(approve, reject, connection released, pending). As default after a connection has been created, the status of the connection will be set as pending.

The authentication of admin user has not been implemented as it was not a part of the requirements. On selecting the admin button again admin mode will be disabled.



Approve / Reject requests:



Admin users can select and set the status of a connection by selecting the status from the drop down.

Connection Reviewer :

Back

localhost:5000/manage-connections

Reviewer information

Reviewer ID

12345

Reviewer Name

Ajgun

Reviewer Comments

Invalid location

SUBMIT

BACK

District: North

State: DELHI

Pincode: 110019

Ownership: INDIVIDUAL

Govt ID Type: AADHAR

ID Number: 234200

Category: Commercial

Load Applied (KV): 100

Date of Application: 2024-02-15

Date of Approval: 2024-02-16

Modified Date: 2024-02-16

Reviewer ID: 1

Reviewer Name: HEM CHAND

Reviewer Comments: 1

Rejected

District: North

State: DELHI

Pincode: 110048

Ownership: JOMT

Govt ID Type: VOTER\_ID

ID Number: 976288

Category: Commercial

Load Applied (KV): 100

Date of Application: 2024-02-14

Date of Approval: 2024-02-15

Modified Date: 2024-02-15

Reviewer ID: 123

Reviewer Name: RAHUL SINGH

Reviewer Comments: stuff

Approved

KEVIN

ID: 4

Gender: Male

District: North

State: DELHI

Pincode: 110028

Ownership: INDIVIDUAL

Govt ID Type: PASSPORT

ID Number: 448687

Category: Residential

Load Applied (KV): 100

Date of Application: 2024-02-14

Date of Approval: 2024-02-15

Modified Date: 2024-02-15

Reviewer ID: 123

Reviewer Name: RAHUL SINGH

Reviewer Comments: stuff

Rejected

ANDREW

ID: 5

Gender: Male

District: North

State: DELHI

Pincode: 110035

Ownership: INDIVIDUAL

Govt ID Type: VOTER\_ID

ID Number: 409481

Category: Commercial

Load Applied (KV): 100

Date of Application: 2024-02-14

Date of Approval: 2024-02-14

Modified Date: 2024-02-14

Reviewer ID: 1311

Reviewer Name: Sushantha Gupta

Reviewer Comments: installation completed

Pending

MICHELLE

ID: 6

Gender: Male

District: North

State: DELHI

Pincode: 110002

Ownership: INDIVIDUAL

Govt ID Type: PASSPORT

ID Number: 204468

Category: Residential

Load Applied (KV): 100

Date of Application: 2024-02-14

Date of Approval: 2024-02-14

Modified Date: 2024-02-14

Reviewer ID: 4016

Reviewer Name: VINOD GUPTA

Reviewer Comments: installation completed

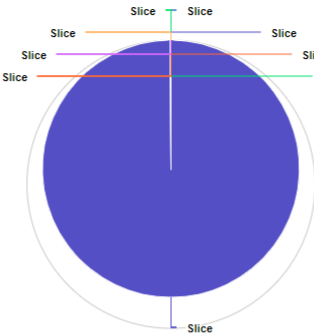
Pending

On change of the status the application will require the user to enter his ID, name and comments as Reviewer ID, Reviewer Name and Reviewer Comments respectively.

**Visualization Graphs:** To provide actionable insights, the application includes dynamic visualization graphs, such as bar or line charts, depicting the number of connection requests received each month. Users can customize the view by selecting their preferred status categories (e.g., pending, approved), enabling informed decision-making.

Count

Connection Requests





Connection Requests

