

Techprimelab Assignment document

Assignment introduction

- The Assignment consists of a mini project which needs to be developed using Frontend and backend technologies
- The assignment is to demonstrate candidates Full Stack development capabilities
- Frontend should be clearly bifurcated from the backend
- The UI should be exactly like the mockups for desktop and mobile which can be accessed using the link in the last page
- After completion of assignment candidate will be interviewed by our Sr. Developer for the code written.
- On clearing the interview you will be given the offer letter



Technologies which can be used are

- Front-End React
- Back-End –Nodejs.
- Database: Mongo DB OR any other database
- UI: HTML, CSS and technologies like Bootstrap for developing pixel perfect UI

Note: Links to Mockups for Desktop and Mobile are given on the last page



Functionalities to be completed in this assignment are

- Login
- Insert Project details
- List project details
- Update project status
- Search a project
- Sort the list by any one column selected from dropdown
- Pagination
- Dashboard with status counters
- Graph to show department wise project completion report

Login page with below functionalities

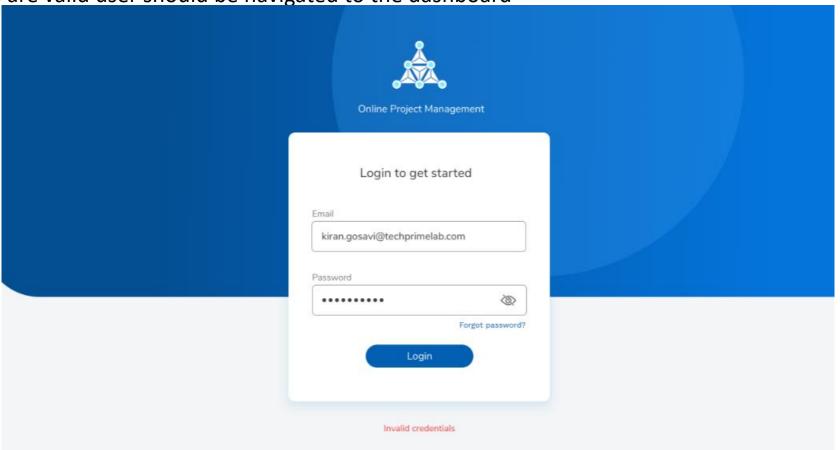
- UI to support functionality is required.
- UI validation for email format and non empty fields



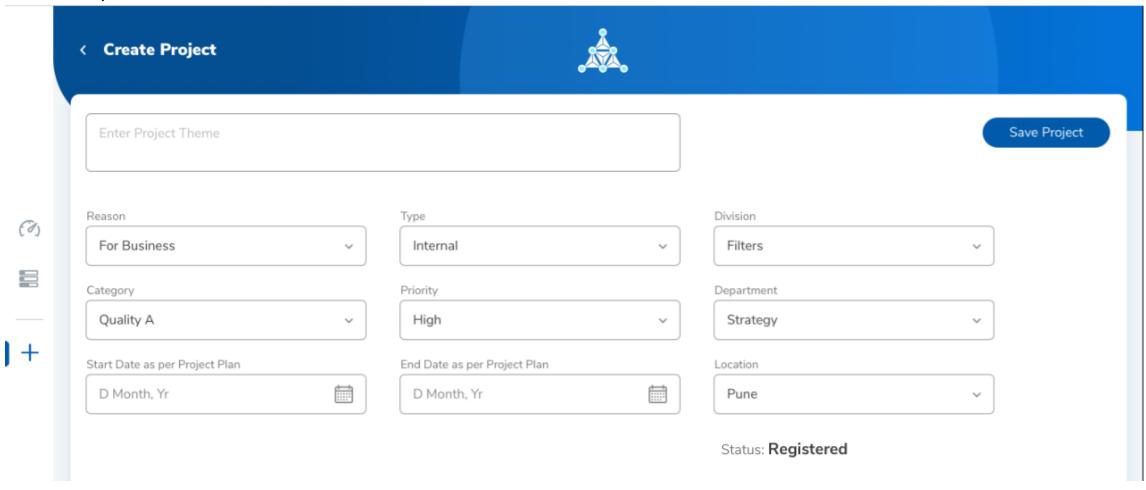
On clicking the login button the user should be validated with the user details from database

If user is invalid show a message on the screen "Invalid user"

If the user details are valid user should be navigated to the dashboard

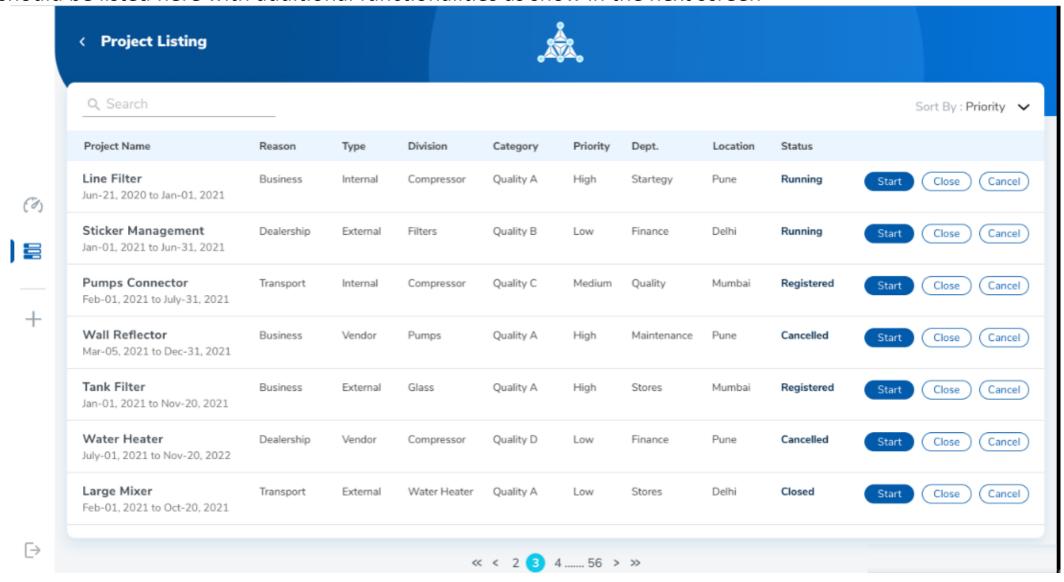


- Insert a new project record
- Create the below form to insert project details: User will input project name and use drop for all other values. All drop downs are mandatory. Apply respective validations
- Techprimelab UX - Simplifying Solutions!
- Use date picker for Start date and End date. Apply validation that end date cannot be smaller than start date
- The status field is constant with a default value as "Registered"
- Implement required UI validations to all fields



Listing page: All records inserted into the database using the Insert Project screen from earlier page should be listed here with additional functionalities as show in the next screen





Functionalities required on the listing page

Status update: On clicking the buttons shown at the right side of each record support below functionality

START – Update the respective records status in database to "Running" Close – Update the respective records status in database to "Closed" Cancel – Update the respective records status in the database to "Cancelled"

On updating the status in DB the status should also get reflected on the listing screen in the STATUS column without REFERSHING the page

SEARCH: Should work as a filter to show only those records where the provided filter text is matching completely or partially for text in any column

SORTING: The dropdown should have names of all columns and the list should get sorted if the value in the dropdown is changed

If user selected status sort the whole list in ascending order for status column

If the user selects location sort the whole list with respective to location

PAGINATION: Show 10 records on one page and perform pagination



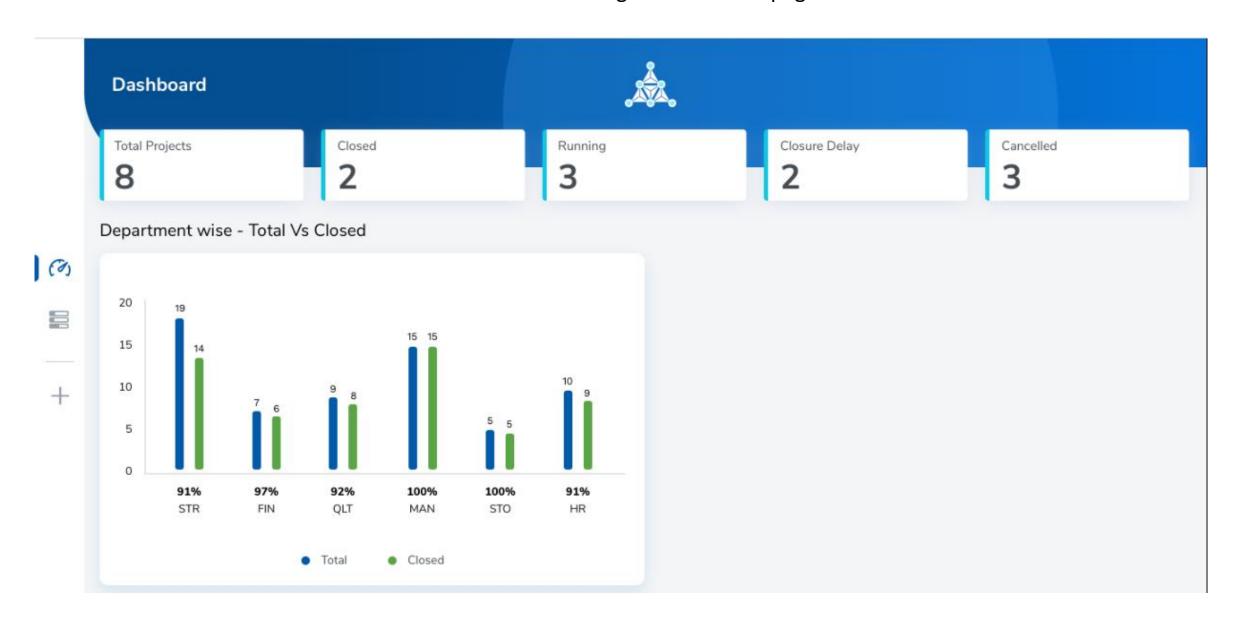








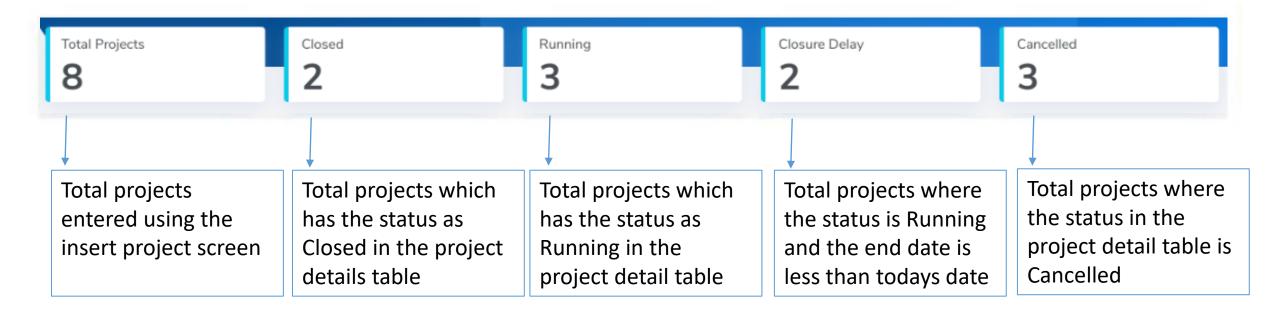
Dashboard: Details about the two sections on dashboard are given on next 2 pages



Dashboard Page:



Counters on the top of the dashboard has values as explained below



Criteria

- Use single API to get all counters
- Use single query in the server side code to fetch all counters except the Closure Delay counter
- Use your own approach while using Json Server Or Firebase

^{**} Create separate API call which gets only counters. Do not use the project listing API which gets all the records

Dashboard chart

The chart shows department wise success percentage of projects

For example in the chart on the right for the strategy department

- Total project registered are 89
- Total projects closed are 81 projects which has status = closed

For Finance department

- Total projects registered are 36
- Total projects closed are 36

Use any ready to use library like Highchart

Criteria – Use single API to get this data and also use a Single query in the server side code to fetch this data from the project table.

** Create separate API call which gets data needed in chart. Do not use the project listing API which gets all the records







Menu:

Create a menu similar to one shown in the mockup or a horizontal menu at the top with below options



Dashboard – User should be navigated to the dashboard Project listing - User should be navigated to the project listing page



Add project: User should be navigated to the Insert Project page



Logout – User should be navigated to the login page. None of the other pages should be accessible without logging in



Link to the desktop mockup:

https://projects.invisionapp.com/share/8Q137HREC2UF#/screens/472494770 Login

Link to the Mobile mockup:

https://projects.invisionapp.com/share/FE1370MZBQ4Z#/screens/472496931 Login

Images needed for project

https://drive.google.com/drive/folders/1y9kW-c9CzjTXphA6RCv71utbXlVrBKxh?usp=sharing

Our Techprimelab website

http://www.techprimelab.com