

Flipr Hackathon XV

Fullstack Web Development Task

System

Theme: Work Log

General Instructions :

1. All candidates are expected to submit the code on or before **10:00 PM, 10th October 2022**.
2. Upload the code in any version control like Git, Bitbucket, etc (do not mention flipr in the repo name or inside the code. This is to avoid code duplicacy.)
3. Please provide GitHub, GitLab, or bitbucket repo URL for your assignment.
4. Add the instructions in your readme.md file to build and run the app.
5. Share all the files and links and also make sure to make these files publicly available, any file that fails to open due to not being shared via a public link will not be considered as part of submission
6. You can refer to the Internet and Books but whatever you code you must understand because if you are going to be shortlisted for an interview then you must be able to explain to the company officials about your code.
7. For any queries regarding the project, you can mail at devops@flipr.ai

Problem Statement

Use Case:

You are expected to build a web application where employers can keep a check on their employees' work done every particular day.

Your application is expected to have certain features which are listed down below:

1. Login for admin.

Using username with password form field.

2. Admin can add employees. Employees data fields will include Name, Mail ID, Contact Number, Department, Joining Date and Password

3. Admin and employee both can login with the same URL. After login both will see their respective dashboards. (Role based access)

4. After employee login, employee can add tasks (activities that they have done in the whole day including breaks, meetings and work) with start time and timeline taken to complete the task.

For executing this activity, Create a button "Add Task". On a click of it, a form will pop up and form will include the following fields:

- Task Description (Text field)
- Task Type (Dropdown) (i.e Break, meeting and work)
- Start Time (Datetime)

- Time taken to complete the task in minutes. (Number)

5. Employee can add multiple tasks for a day. However, employees can add tasks for past and current dates only.

6. On the Employee Dashboard – Show graphical information of employee tasks.

- Pie Chart – Create two pie charts, 1st for current day & 2nd for previous day. Pie chart will show the data for break, meeting & work.
- Stacked Bar Chart with 3 bars –
 - 1st: Not Working. Include breaks
 - 2nd: Working. Include work tasks
 - 3rd: Meeting. Include meetings

The Stacked Bar will be shown as per the weekly data.

7. On the Admin Dashboard – Admin can see a list of all employees. When admin clicks on any employee name, both graphs (i.e pie chart & stacked bar chart) will be visible.

Additional Features:

1. Date Filter Employee - If the user selects any date, the pie chart of that date and all the tasks for that date will be shown.
2. Date Filter Admin - If the user selects any date, the pie chart of that date and all the tasks for that date will be shown.
3. Admin can deactivate the employee. After deactivation Employee cannot login and can't add any tasks.
4. Employees can update their profile and password through the profile section except email id.

Deployment :

- 1) Upload the code on any version control like **Github, Gitlab, Bitbucket**
- 2) Deploy the frontend and backend code on any cloud platform like **AWS, Microsoft Azure, Google Cloud, Heroku or any other platform.**
- 3) For databases, you can use anything. However, we'll prefer the use of **free tier sandboxes on MongoDB Atlas.**