**Project Introduction**

Create a web application to track an irregular sleeping patterns, which will track the sleeping patterns, including duration and timings. So, you will create a web app to track three parameters: sleep time, wake up time, and sleep duration and Users can add, edit, or remove any sleep entries.

**Front-end & UI Design**

**Use HTML5, CSS, Bootstrap, JQuery and JavaScript to build up all below webpages of this web application. (All pages are of Responsive Design)**

* **Home/Dashboard Screen**: When a user is not logged in, show the homepage with an introduction of the app and how it can help users track their sleep better with some motivational quotes, problems and why we need to track the irregular sleeping patterns.
* **Sign-up page**: Implement your own authentication module and it also includes an option to login through Google/Facebook social logins.
* **Login page**: a user should be able to login to the account using their signup method, register page and forget password page.
* **User Management System**: 2 types of user type access in the application : **Admin & User**
* **Admin UserType**: Admin users will able to see all users list registered in the application.
* **Admin UserType** will able to setup motivational quotes on dashboard page in future, so these all quotes setup by admin will display on dashbaord page.
* **User UserType** users has no rights to see above 2 points.
* **User** **UserType** users can able to update profile, forget/reset password.
* **Old user logs in:** show a list of entries for the last 7 days or 1 month
  + The list should include: date, time of sleep, wake up time, and sleep duration
  + Use tabular information or use any graph library to show a floating bar chart with the Y axis as the sleep duration and X axis as dates
  + Show a “new entry” button which will save Date, sleep time and wake up time in database(same like dialog/popup option in New User login scenario)
* **New User login**: show an empty page with the “New entry” button. Once the user clicks “New entry,” show a modal dialogue/popup:
  + Select date using date picker
  + Select sleep time in hour and minutes
  + Select wakeup time in hour and minutes
  + Calculate total sleep duration
  + Include reset, cancel, and submit buttons

**Back-end**

**Use NodeJS, ExpressJS with MySQL database to create REST API’s**

* All entries must be stored in MySQL database on the server where it can be fetched at any time. Use databases and Rest APIs to fetch the data.
* Write backend APIs to read, write, and update entries.

**Extra challenge**:

Add more visualization by Tabular/Charts on user dashboard page for weekly and monthly analysis:

* Average sleep duration for the week
* Number of days the user slept less than 6 hours
* Number of days the user slept more than 8 hours
* Average sleep and wake up time.

**Target Dates => 2 week (10th Aug. 2021)**