INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD

Internet of Things

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USER MANUAL

DrinkSapHe

Installation :

 To set up locally, following steps to be followed :

1. Install Node.js and NPM from your browser. For reference follow the given link

2. Download the project source code from the Github repository by cloning it or downloading the zip file

     (i) To clone : First fork the repository then type the below text to your git bash and press enter.
git clone https://github.com/PratyushPareek26/IotProject.git

     (ii) Download Zip : You can download the source code by downloading zip by clicking on the **download zip** button

3. To move further we need 3 terminal instances. One for backend, second for frontend and the third to initialise database and to create admin credentials. Lets name them as Terminal 1, Terminal 2 and Terminal 3 to avoid any confusion.
   You can use any terminal like command prompt, powershell, git bash etc.

4. Navigate all the three terminals to the project folder.

5. For backend follow the below steps in Terminal 1.

```
cd server

npm install

npm start
```

6. For frontend type the below text to Terminal 2.

```
cd client
npm install
npm start
```

7. After this project will automatically launch to the browser. In case if your default browser does not launched automatically, open a browser tab and navigate to `localhost:3000` The backend API will be running at `localhost:8080` .

8. Now switch to the 3rd Terminal and navigate to the server directory.
   (i) Run the below command to initialise the database and then press **Enter**.

```
npm run initDrinksaphe
```

(ii) Then run the 2nd command shown below and press **Enter.** This command will generate admin credentials in your database. Now you can login using these credentials. The admin user has full access to all functionalities of the app, ranging from creating new users to setting the alert interval.

```
npm run createAdmin
```

Usage :

Student/Visitor :

1. The student need not to login as they have no login credentials.

2. They can access following use cases :

   (i) Check current pH of any cooler: In cooler Cards pH of every cooler is mentioned with location (where the particular cooler is installed).

   (ii) Update pH : On clicking, you are requesting to check the pH again and return the updated value.

   (iii) Cooler details : On clicking the button a new card will be displayed, and the user can check all the details related to that cooler.

   (iv) Report : If users found any discrepancies then they can give their feedback with the help of this form.

   (v) Contact Details : If you want to contact Us then this section will help you as our details are dropped here.

Maintenance Team :

1. Registered team members can login with their credentials which will be sent by the admin at the time of their registration. If they would have updated their passwords then they can login with their updated password.

2. Team members have access to all the functionalities given to students/visitors.

3. After the successful login, members is now redirected to the dashboard where they can access the functionalities / use cases listed below :

(i) Edit pH range : You can edit the safe pH limit for all the coolers by adding the low-high values.

(ii) Add a new Cooler : If you want to add a new cooler, you can use the **add new cooler** button and save the cooler by completing all the required fields.

(iii) Delete cooler : You can delete a cooler from your database by selecting it from the list which would be shown by clicking the **delete cooler** button.

(iv) Update Password : Here you can change your password. During updation some checkpoints are there which you have to follow for a good password.

(v) Update Alert Email : Here You can change your Email Id to which the alerts would be sent whenever pH of any cooler is not within safe limit.

(vi) Update description : You can mention who you are, what are your recent qualifications etc to the description and later can update at any time.

Admin :

1. You can log in as admin by filling the blanks fields with the created admin credentials (email id and password).
2. Here you land to the dashboard where you can access all the admin use cases :
    - (a) Common to students/visitors.

    - (b) Common to maintenance team - mentioned above.

    - (c) Admin handy -

(i) Create New User : Admin can create a new user who has access as a maintenance team Member. They can access all the functions which are accessible by the maintenance team.

(ii) Update Alert Interval : Here you can update the alert interval. Alert interval is a timestamp in which team members get alert mails. Usually this interval is to be within office time.