

# Documentation of Work Done in FluxGen

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## Documentation

The webapp has used a template with github link:

<https://github.com/coreui/coreui-free-react-admin-template>

Libraries used:

- base-64 (for encoding and decoding password field in the Login API)
- chartjs-plugin-datalabels (Customisable Chart.js plugin)
- React-icons (for popular icons)

Instructions to run the webapp:

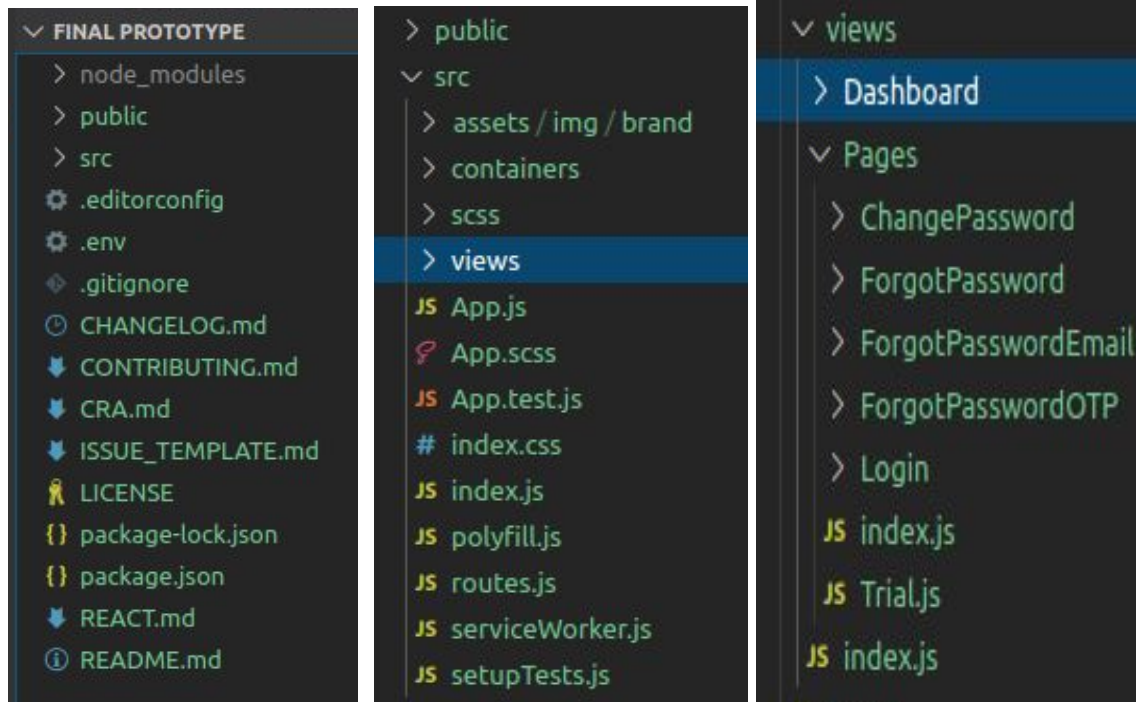
On terminal:

```
$ npm install base-64
$ npm install chartjs-plugin-datalabels --save
$ npm install react-icons --save
$ npm install
$ npm start
```

The web app runs on PORT 3000

Hierarchy of folders and files

Main folder is named Final Prototype



Starting page of webapp: <http://localhost:3000/#/login>

**Note:** 'Folder' in below documentation contains all the files which are called for each feature internally.

polyfill.js, serviceWorker.js and setupTests.js are used to set up the structure of the webapp.

## Login functionalities

URL: <http://localhost:3000/#/login>

Folder: src/views/Pages/Login

The given login page contains an API which checks login credentials.

API: <http://54.244.196.27/aquagen/v1/auth/login>

Appropriate error messages are displayed in case of incorrect credentials or input fields not being filled.

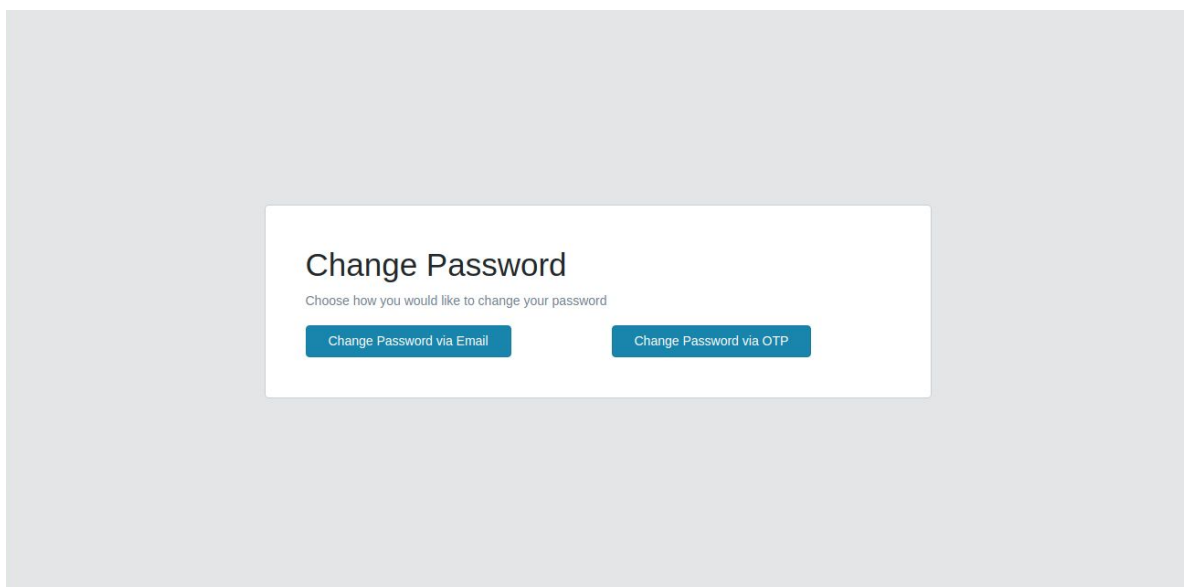


## Forgot Password

URL: <http://localhost:3000/#/forgotpassword>

Folder: src/views/Pages/ForgotPassword

On clicking on forgot password, the user is redirected to a page where two options present themselves. 'Change Password via Email' or 'Change Password via OTP'.



## Change Password via Email

URL: <http://localhost:3000/#/forgotpasswordemail>

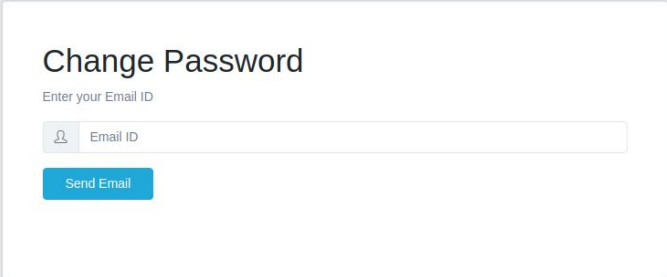
Folder: src/views/Pages/ForgotPasswordEmail

The 'Change Password via Email' button redirects to this page. Here the user is expected to enter their email ID. An API is used to send the email.

API: <http://54.244.196.27/aquagen/v1/auth/forgot>

Appropriate error messages are displayed in case the email field is not being filled.

Appropriate confirmation message is displayed if email is entered successfully and the email is sent.

A screenshot of a web form titled "Change Password". Below the title is a subtitle "Enter your Email ID". There is a text input field with a user icon on the left and the placeholder text "Email ID". Below the input field is a blue button labeled "Send Email". The form is centered on a light gray background.

## Update Password

URL: <http://localhost:3000/#/changepassword/:token>

Folder: src/views/Pages/ChangePassword

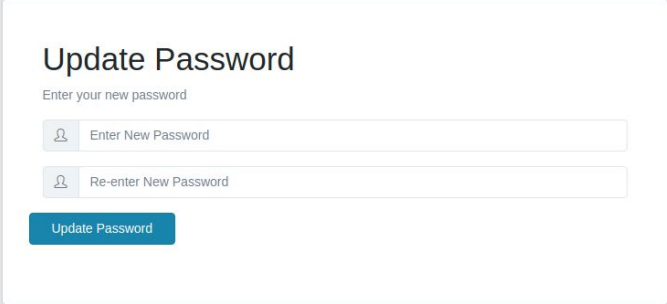
The user receives an email containing a link which redirects the to this page.

'token' contains the token used and changes accordingly. An API is used to update the password.

API: <http://54.244.196.27/aquagen/v1/auth/reset>

Appropriate error messages are displayed in case the input fields are not filled or both passwords entered do not match.

On clicking on 'Update Password' and all input fields entered correctly, the user is redirected to the Login page. The user also receives a confirmation email stating that the password has been updated successfully.

A screenshot of a web form titled "Update Password". Below the title is a subtitle "Enter your new password". There are two input fields: the first is labeled "Enter New Password" and the second is labeled "Re-enter New Password". Both fields have a small icon of a person on the left. Below the input fields is a blue button labeled "Update Password". The form is centered on a light gray background.

## Change Password via OTP

URL: <http://localhost:3000/#/forgotpasswordotp>

Folder: src/views/Pages/ForgotPasswordOTP

The 'Change Password via OTP' button redirects to this page. Here the user is expected to enter their mobile number and the OTP they receive on their SMS. **This page is a dummy page and no API is implemented.**

Appropriate error messages are displayed in case the Mobile number or the OTP fields are not entered correctly.

Appropriate confirmation message is displayed when a mobile number is entered.

On entering the correct OTP, the user is redirected to the update password page.

## Update Password

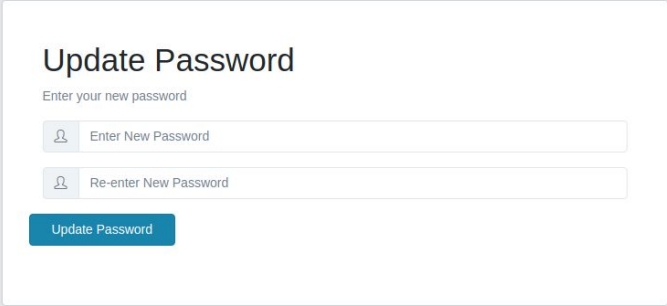
URL: <http://localhost:3000/#/trial>

File: src/views/Pages/Trial.js

**This page is a dummy page and no API is implemented.** The user is prompted to enter their new password.

Appropriate error messages are displayed in case the input fields are not filled or both passwords entered do not match

On clicking on 'Update Password' and all input fields entered correctly, the user is redirected to the Login page.



The screenshot shows a web form titled "Update Password" centered on a light gray background. Below the title is the instruction "Enter your new password". There are two input fields, each with a small lock icon on the left. The first field is labeled "Enter New Password" and the second is labeled "Re-enter New Password". Below these fields is a blue button with the text "Update Password".

## Once Logged In

URL: <http://localhost:3000/#/dashboard>

Folder: src/views/Dashboard

The dashboard to obtain information for the bar graph and balance chart.

API:

<https://api.fluxgen.in/aquagen/v1/industries/DEMO1/consumption/graph?duration=thismonth&category=Internal Source>

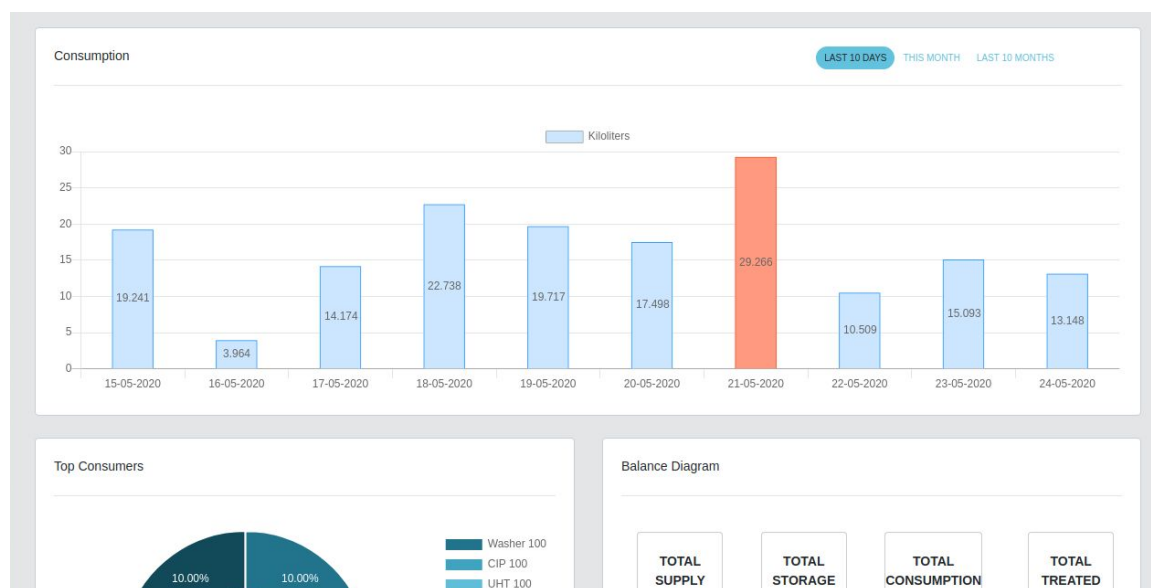
<https://api.fluxgen.in/aquagen/v1/industries/DEMO1/consumption/latest?category=Storage>

The bar graph contains 3 options. 'LAST 10 DAYS', 'THIS MONTH', 'LAST 10 MONTHS'

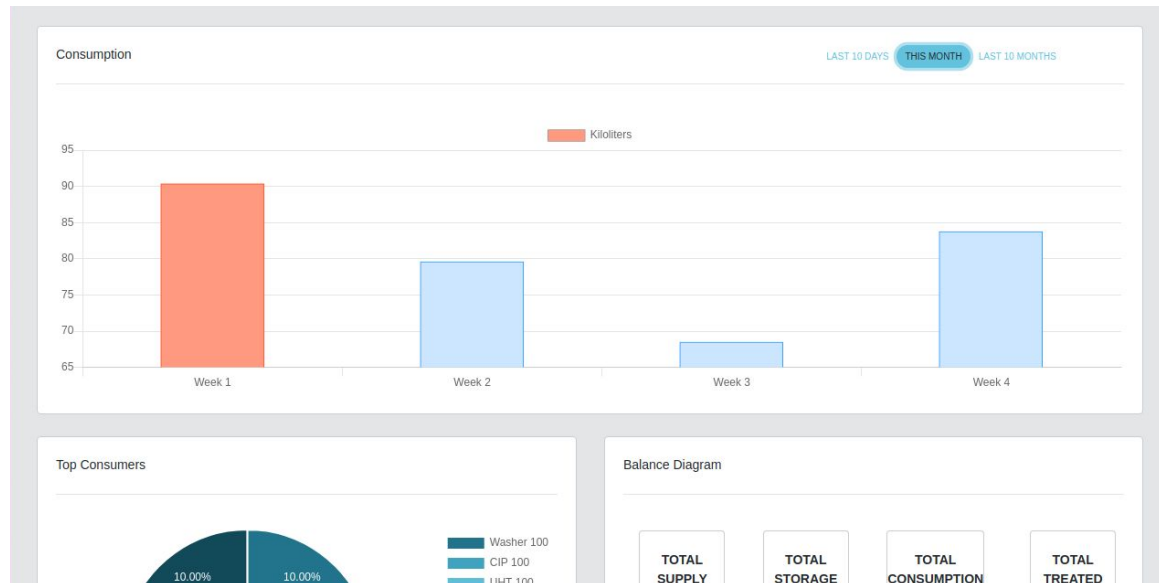
Values for 'LAST 10 DAYS' are obtained from the API, rest is dummy data. The bar having the highest consumption is coloured in red.

The doughnut chart updates itself on clicking of any bar on the bar chart. Data in the doughnut chart is dummy data.

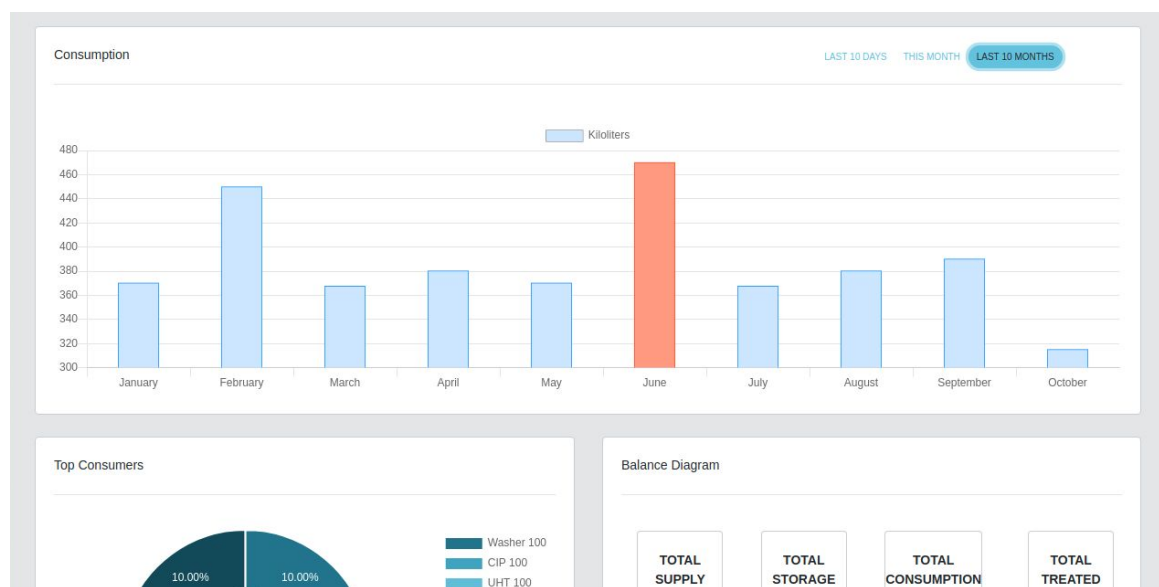
The balance diagram displays data from an API except for 'TOTAL TREATED'.



Bar graph displaying data for 'LAST 10 DAYS'

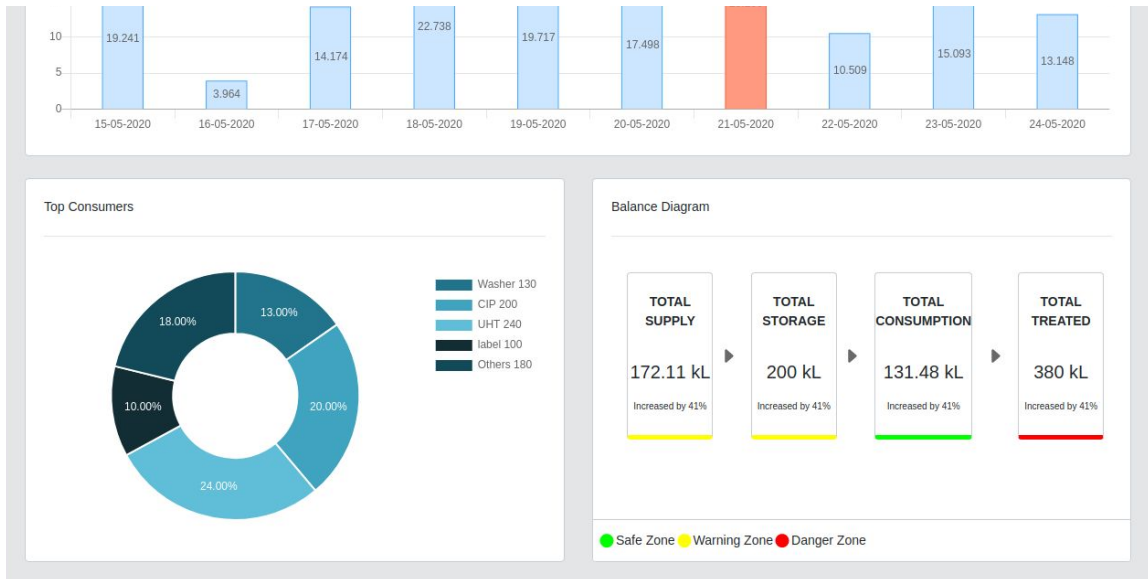


Bar graph displaying data for 'THIS MONTH'



Bar graph displaying data for 'LAST 10 MONTHS'





Doughnut Chart and Balance Chart