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# AQUA STUDY

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Project Report



MARCH 27, 2019

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## PROJECT DESCRIPTION:

AquaStudy is the web application which allows the user to login and enter the Flow, Pressure Fields. Designed to show the findings in the form of table and interactive Bar chart. Implemented below features.

1. Open the Application
2. Menu Options for the User
3. Login functionality with proper Validations and Animations.
4. Details Page for entering Flow and Pressure with given validations and loading animations
5. Table display with sorting, pagination and collapse feature
6. Bar Chart Display on the pop-up dialog with close button
7. Navigation to Table display and Bar Chart from menu
8. Error Handling
9. Respective get and post methods.
10. Mongo for creating a table with specified columns and auto increment feature.

## TECH STACK USED:

**Front End:** Angular 6

**Back end:** Node JS with Express JS and Mongoose

**Database:** Mongo DB

You can find my code in my git hub

Please click <https://github.com/krishreddy56/AquaStudy>

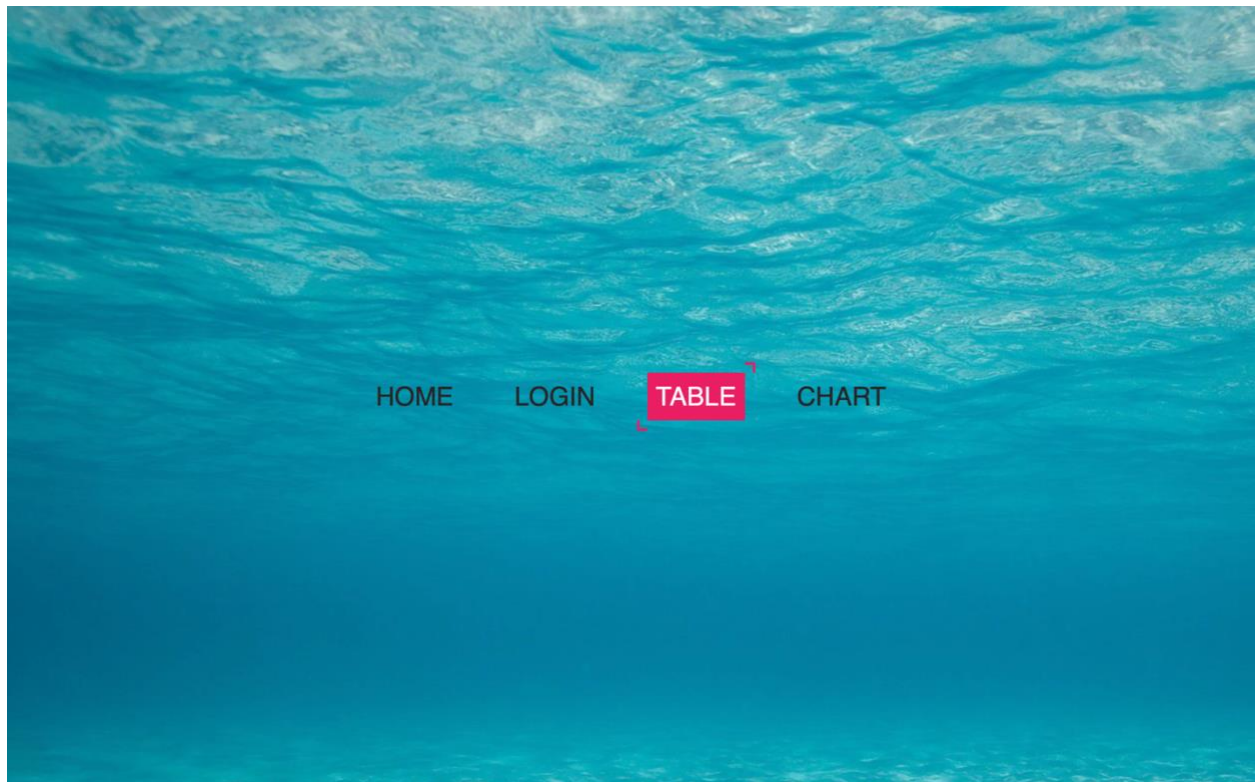
## OPEN THE APPLICATION:

Open the application using the link <http://localhost:4200>. Please connect to network before opening the application as the database is deployed on cloud. Click on get started to go to menu.

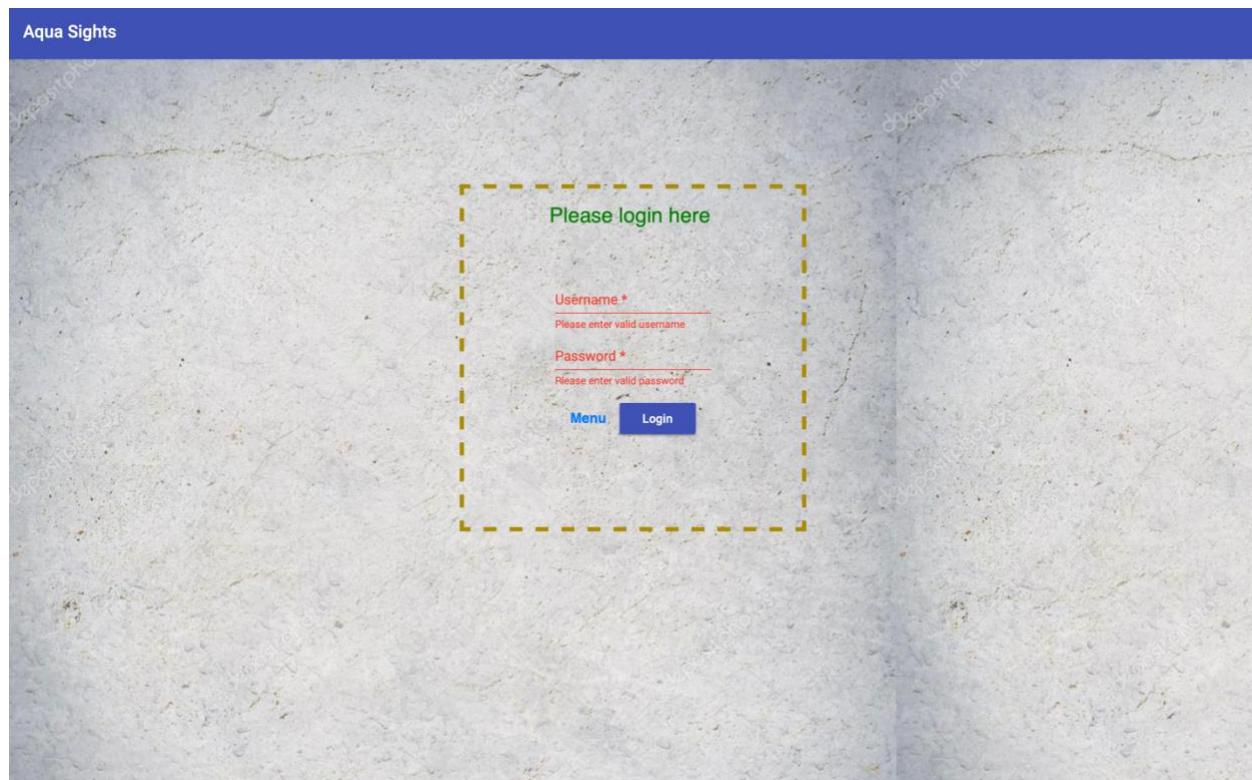


## MENU OPTIONS FOR THE USER:

Below are the available menu options.



## LOGIN FUNCTIONALITY WITH PROPER VALIDATIONS AND LOADING ANIMATIONS:





## DETAILS PAGE FOR ENTERING FLOW AND PRESSURE:

The page does not accept empty values. It accepts only numbers greater than zero. Form is submitted with current time stamp according to UTC Zone. Because of that, the time stamp will be 4 hrs ahead of current time.

The screenshot shows a web application interface with a blue header bar labeled "Aqua Sights". The main content area has a light gray, textured background. A yellow dashed rectangular box highlights a form titled "Details Here!!" in green text. Inside the box, there are two input fields: "Enter Flow \*" and "Enter Pressure \*", both with red asterisks indicating required fields. Below each input field is a red error message: "Please enter valid Flow" and "Please enter valid Pressure". At the bottom of the form, there are two buttons: a blue "Menu" button and a dark blue "Save" button.



Aqua Sights

Details Here!!

Enter Flow \* -120 6

Enter Pressure \* 000 9

Menu Save

## TABLE WITH SORTING, PAGINATION AND COLLAPSE FEATURE:

Default pagination is set for default 5 rows a page. All columns are sortable. Default sort by Time Stamp. Table is collapsed by clicking the icon on the top right corner of the table.

Aqua Sights

[Back to Menu](#) [Bar Chart](#)

Details of Entries

Please click this to see the details

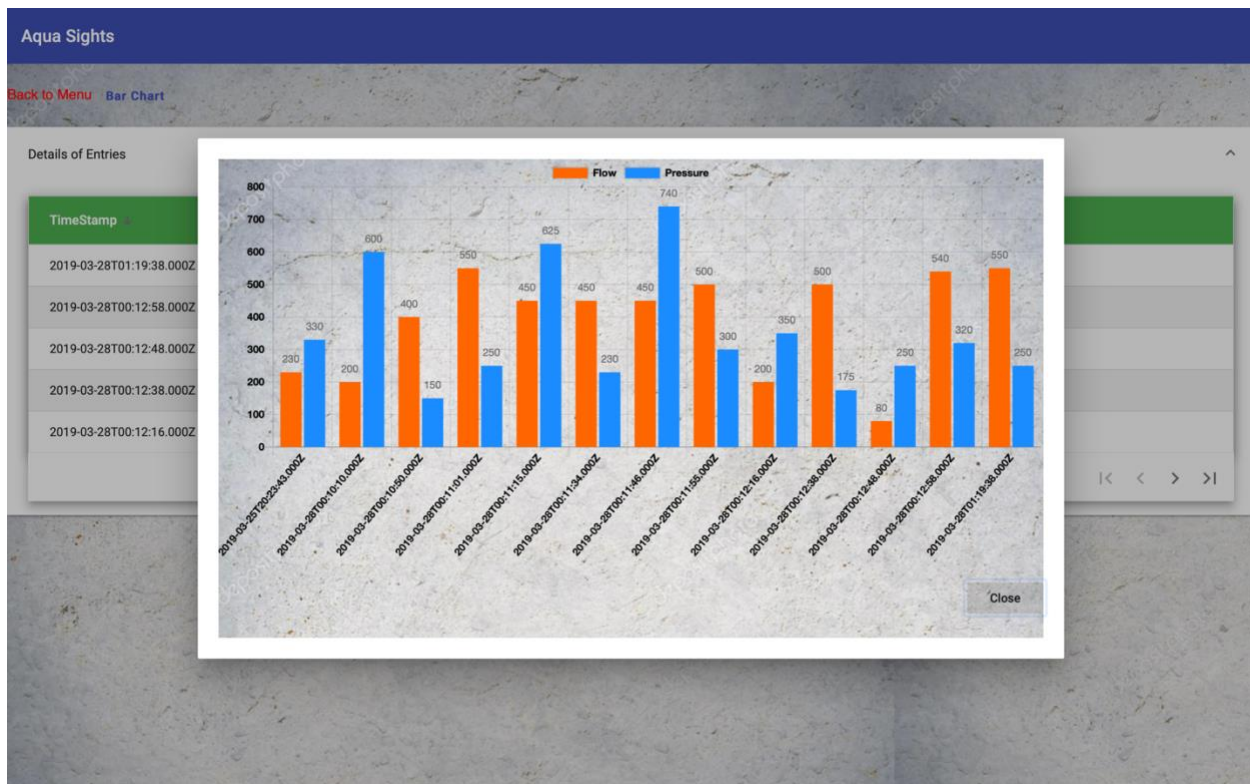
TimeStamp	Flow	Pressure
2019-03-28T01:19:38.000Z	550	250
2019-03-28T00:12:58.000Z	540	320
2019-03-28T00:12:48.000Z	80	250
2019-03-28T00:12:38.000Z	500	175
2019-03-28T00:12:16.000Z	200	350

Items per page: 5 1 - 5 of 13 |< < > >|

## BAR CHART DISPLAY ON POP UP WITH CLOSE BUTTON:

User can see the bar chart on pop up by clicking on bar chart button above the table.

User can see both the details at a single time. Can also view them individually by clicking on legend. Clicking on close button or outside the popup closes the popup



## FULL BAR CHART BY CLICKING BAR CHART OPTION ON MENU PAGE

User can see both the details at a single time. Can also view them individually by clicking on legend.

