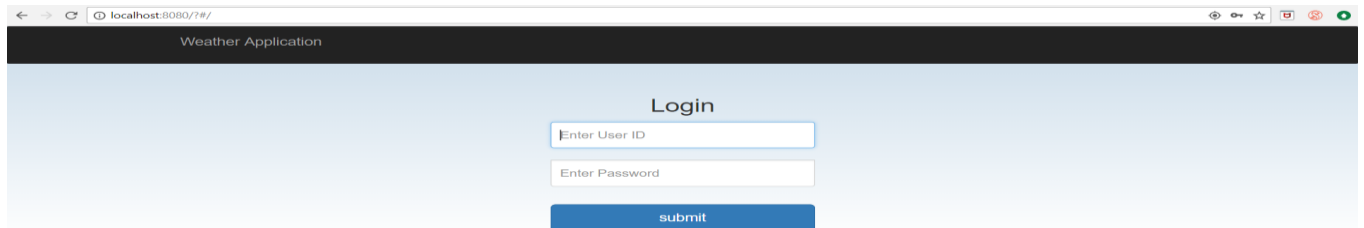


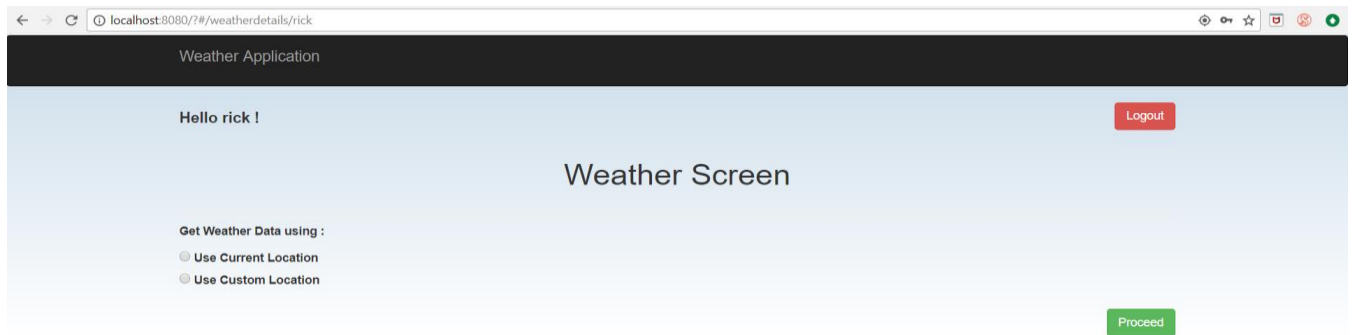
## **Project Report**

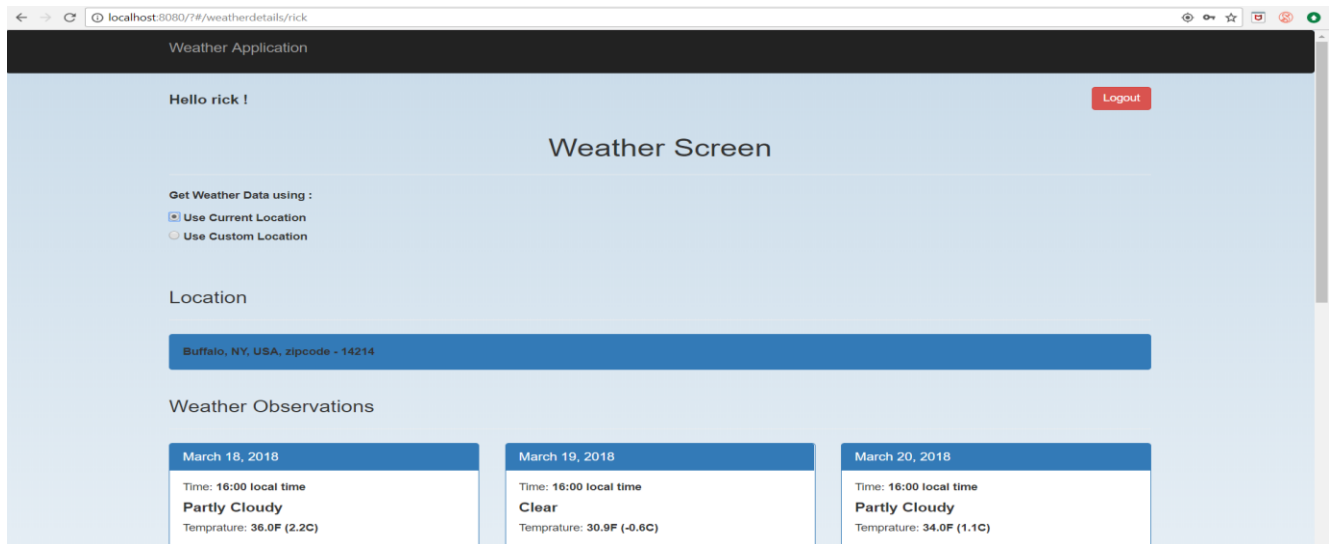
- Basic template of the project is coded in the main.js file.
- Routing is handled in the index.js file.
- **Login Page (Screen 1):**
  - Imported the User.json file from static folder of the project using package 'axios' during the page load.
  - User is prompted for user name and password which are the required fields. The user will be notified in an unsuccessful login and will be allowed to try again.
  - Upon successful login, a session is created with 'user id'(uid) as session variable and the user will be routed to screen 2 with userid as parameter (used 'props' to achieve this).



- **Weather Details Screen (Screen 2):**
  - On page load, the current location zipcode of the user will be obtained using 'vue-browser-geolocation' and 'latlng-to-zip' node packages. The Weather data of around 480 zip codes will also be loaded on page load using 'axios' from the static folder of the project.

- The session state from login is maintained here to prevent the user from going back to 'Login' page using browser back button. If user wants to logout, a 'Logout' button is provided in the screen which will destroy the current session and will take back to the login screen. Similarly, navigation from login to other pages (screen 2 or screen 3) using browser back or forward button is prevented in the same manner using the session state.
- In the page, the user will be prompted to select one of two options – to get weather data using current location or using a custom location. If the user selects the current location, then the zip code that we obtained on page load will be used to retrieve data. If the user selects the custom location, then the user will be prompted to enter the zip code of that location which will be used to retrieve the data.
- The data shown in screen 2 are –
  - complete location of the zip code
  - weather observation on 03/18/2018 16:00 local time, 03/19/2018 16:00 local time and 03/20/2018 16:00 local time.
  - a complete weather summary of the day
  - the record weather observed for that location in the past.
  - A error message will be displayed on searching zip code that is not available in the list of 480 zip codes.
- A 'Proceed' button at the bottom of the page will take you to the next screen.





### ➤ Weather Data Filter Screen (Screen 3):

- This final screen will take up to 3-4 seconds to load, as we have to show the list of all the data (1400 odd records) in the screen. But once loaded, all other operations happen very quickly.
- 'axios' is used to get and load the weather data from static folder to the screen.
- The records of all the observations are displayed in the table, with each column having their own efficient inline search options.
- If user clicks on any of the records, a popup will be displayed with all relevant information as in screen 2 corresponding to the clicked record/row.
- 'Clear Filter' button at the bottom of the page is used to clear all the input from the user in the search options and displays all the records again.
- This screen also handles the logout of the user like the previous page.

localhost:8080/?#/filterdetails/rick

### Weather Data Filter Screen

Location	Date (Month dd,yyyy)	Average Temperature Of The Day (in F)	Average Wind Speed Of The Day (in MPH)	Weather Condition at 16:00 Local Time
State or Zipcode or City	Month or dd or yyyy	Filter Temperature	9	
Yorkshire, NY - 14173, USA	March 20, 2018	18 F	9 MPH	Clear
West Valley, NY - 14171, USA	March 20, 2018	18 F	9 MPH	Clear
Springville, NY - 14141, USA	March 20, 2018	18 F	9 MPH	Clear
Sardinia, NY - 14134, USA	March 20, 2018	18 F	9 MPH	Clear
Sandusky, NY - 14133, USA	March 20, 2018	18 F	9 MPH	Clear
Machias, NY - 14101, USA	March 20, 2018	18 F	9 MPH	Clear
Freedom, NY - 14065, USA	March 20, 2018	18 F	9 MPH	Clear
Farmersville Station, NY - 14060, USA	March 20, 2018	18 F	9 MPH	Clear
East Concord, NY - 14055, USA	March 20, 2018	18 F	9 MPH	Clear
Delevan, NY - 14042, USA	March 20, 2018	18 F	9 MPH	Clear
Chaffee, NY - 14030, USA	March 20, 2018	18 F	9 MPH	Clear
Centerville, NY - 14029, USA	March 20, 2018	18 F	9 MPH	Clear
Bliss, NY - 14024, USA	March 20, 2018	18 F	9 MPH	Clear

Clear Filters

Popup:

localhost:8080/?#/filterdetails/rick

Wind Speed: 0.0 MPH

Wind Speed: 10.4 MPH

Wind Speed: 11.5 MPH

#### Full Day Summary

March 18, 2018	March 19, 2018	March 20, 2018
Average Temperature: 26F	Average Temperature: 24F	Average Temperature: 18F
Temperature (max/min): 41F / 12F	Temperature (max/min): 32F / 17F	Temperature (max/min): 24F / 14F
Humidity (max/min): 74% / 30%	Humidity (max/min): 93% / 37%	Humidity (max/min): 73% / 43%
Wind Speed (max/min): 12 MPH / 0 MPH	Wind Speed (max/min): 13 MPH / 0 MPH	Wind Speed (max/min): 14 MPH / 7 MPH

#### Record Statistics

Highest Temperature	Lowest Temperature
High: 72F / 22C	Low: 6F / -14C
Record Year: 1920	Record Year: 1940

Got It!

### ➤ Other Details Regarding Project:

- The weather data for 480 odd zip codes from <https://www.wunderground.com/weather/api/> was obtained using a python script written by me. I have attached the python script along with the project.
- Bootstrap-CDN CSS was used as CSS template for this project.

- The following packages were added explicitly for this project – axios, latlng-to-zip, vue2-filters, vue-modaltor, vue-browser-geolocation, vue-session.

**Total Hours Spent: 20-24 hours. (including the learning of VueJs).**

Regards,

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