CS5551 – ADVANCED SOFTWARE ENGINEERING

Dr. Yugyung Lee

Assignment 4

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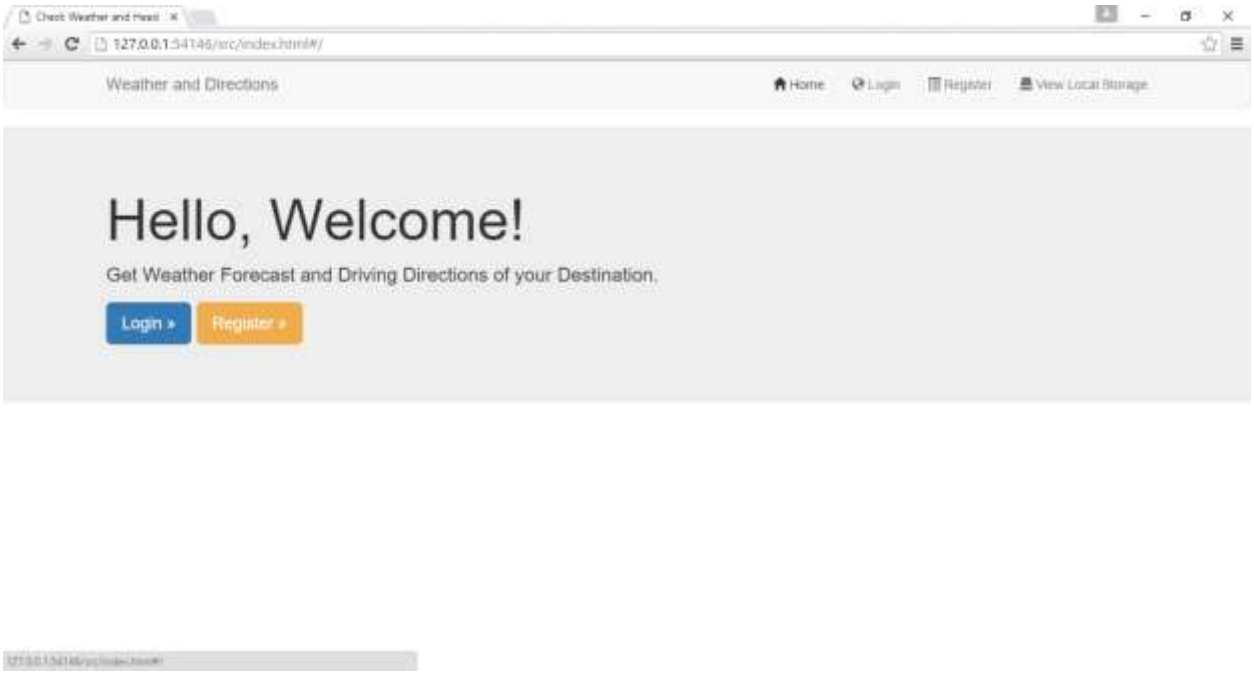
Task: Create an AngularJS application with atleast 3 pages. Use an external Web service to fetch the Weather details of Source and Destination locations and Mark the Route on Google Maps.

Steps:

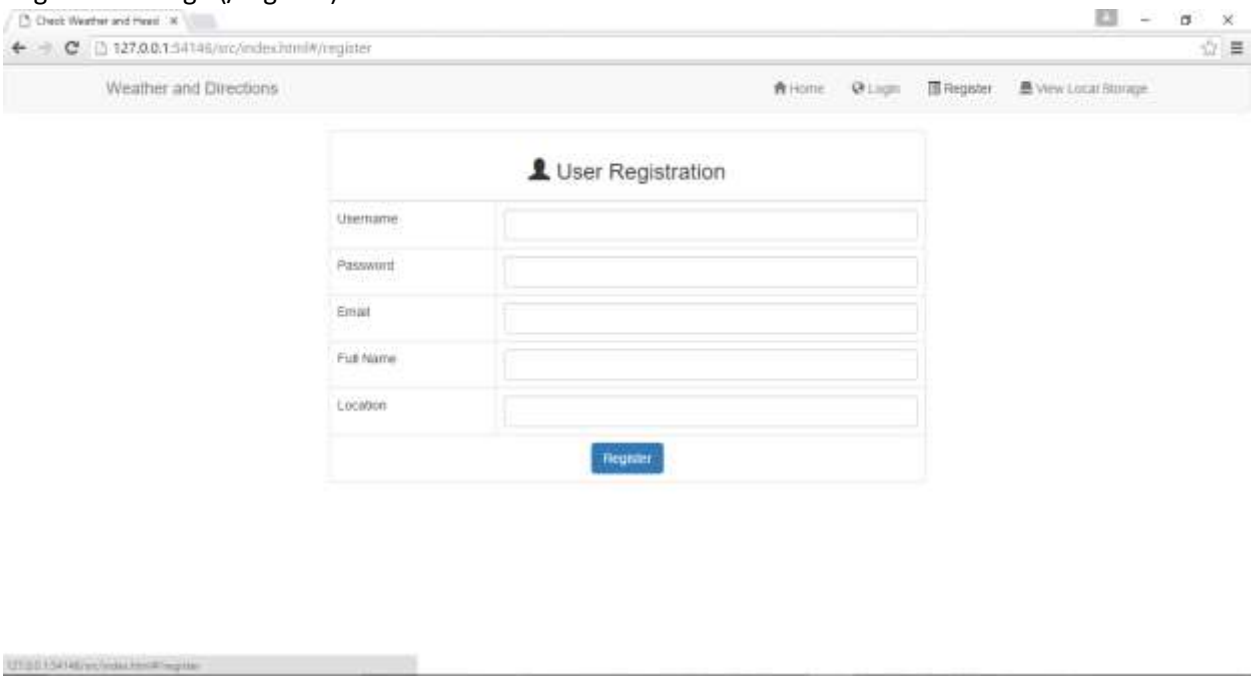
1. An Angular Application with name **WeatherApp** (ng-app) and that module is defined with ngRoute dependency in **app.js**.
2. Index.html page contains the **ng-view** tag that displays all the pages defined in $routeProvider.
3. Four pages (app.html, home.html, register.html, userdetails.html) have been created and routed using **$routeProvider** (/app, /, /register, /user respectively).
4. Controllers for each page have been defined as appController, registrationController, homeController, localStorageController.
5. **appController** initializes Google Map to the Current location of the user using GeoLocation API and when Button is clicked on app.html processRequest function will be called and Starting point and Destination point values are fetched and they are given as parameters to origin and destination of Google maps and the Map is set to new location.
6. Then within the same controller two scope functions for Source Location Weather and Destination Location Weather are defined and http calls are made to OpenWeatherMap API with the source and destination query string are passed to the API and upon call success, DOM is manipulated with the response.
7. **registrationController** fetches all the details entered by user and saves it in the localStorage.
8. localStorageController retrieves the localStorage user array and appends the data to DOM.

Application Flow:

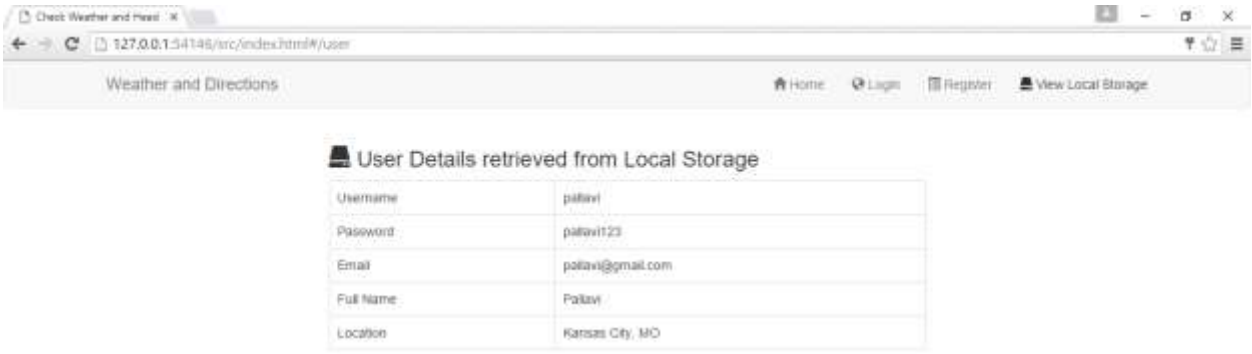
1. Application flow starts at index.html.



2. Registration Page (/register)

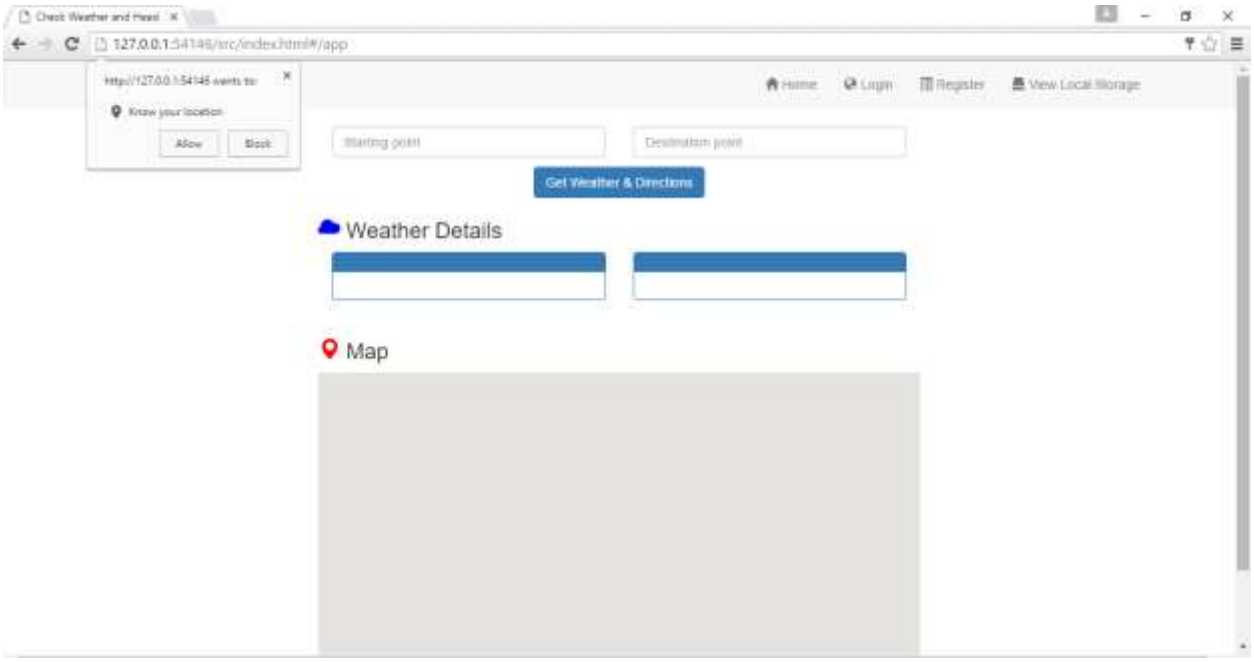


3. Data Retrieved from Local Storage (/user)



4. Application page (/app)

Geo Location – Permission Request



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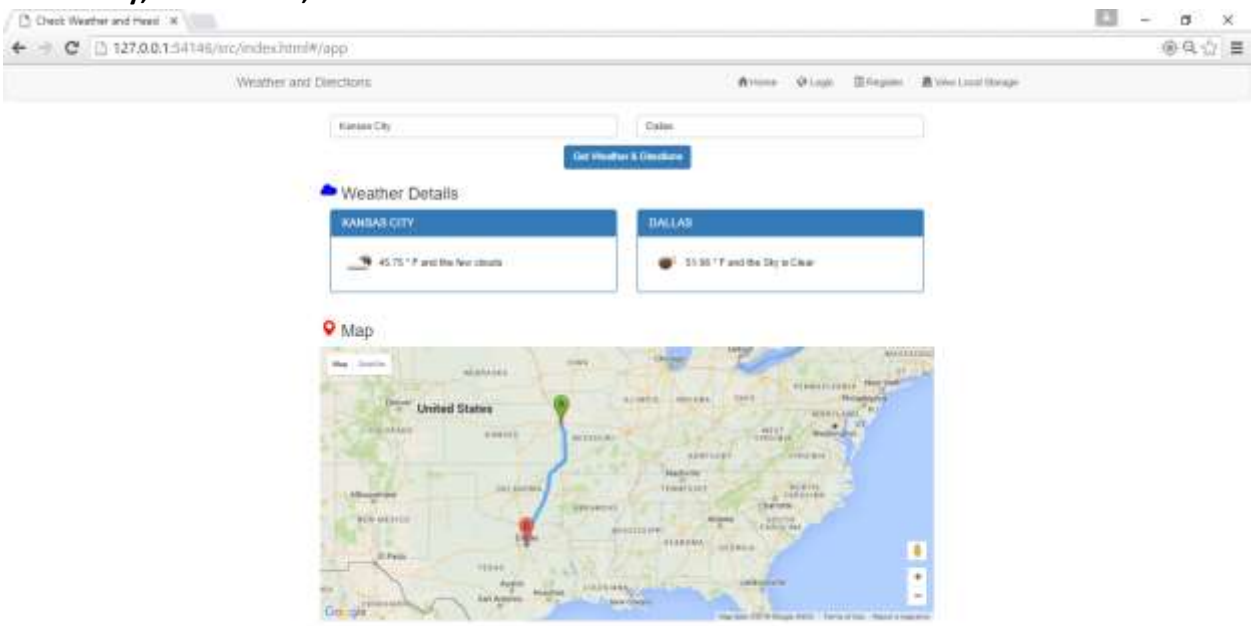

Dallas, TX – Boston, MA