Cloud Computing : CSE 546

Project 2

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Steps to run the code:

1. Download extract the zip.
2. Cd to volunteeringsystem_cloudcomputing.
3. Open command line prompt and run the command “npm install”.
4. For using the application through browser, run the command “ionic serve”. A web browser will be automatically opened with local app URL. The application has all the credentials to communicate with the Firebase backend.
5. For building the application for Android or IOS, please follow the detailed Ionic framework documentation here:
   https://ionicframework.com/docs/building/android
   https://ionicframework.com/docs/building/ios

Code Structure:

- functions folder has the code that runs on Cloud Functions and monitors the request collection in DB to notify user and volunteers about status changes.
- Main application code is inside the src folder. It contains all the Angular components and routes used by Ionic Framework.
- Inside the src folder, all the components and models are defined.
    - Models
        - request.ts: This file contains the model for request collection in DB.
        - User.ts: This file contains the model for users and volunteers collection.
    - Components - Each component has 4 files:
        - Component-name.module.ts - Defines all the modules used this component uses
        - Component-name.page.html - Defines the html structure of the component
        - Component-name.page.scss - Defines CSS styling for the component
        - Component-name.page.ts - Controller for the component

      Following are the main components:
        - PreHome - Shows the login screen for user and volunteer
        - Home - Routes to proper page based on user on volunteer
        - Map - Main screen of the app where user can see volunteers and create a request.
        - Profile - Dashboard for the user. Container for the account and request pages.
        - Account - Shows account details for the user.
        - Requests - Shows all the requests pages - Pending, In-Progress and Completed.