

Below are the list of my last three projects where front-end was developed in Angular and back-end for two projects were written in JAX-RS RESTful web services while Google's FireBase was used for the last project. All the projects used routing-module and different types of Service module of Angular.

Project 1: Digital Assistant

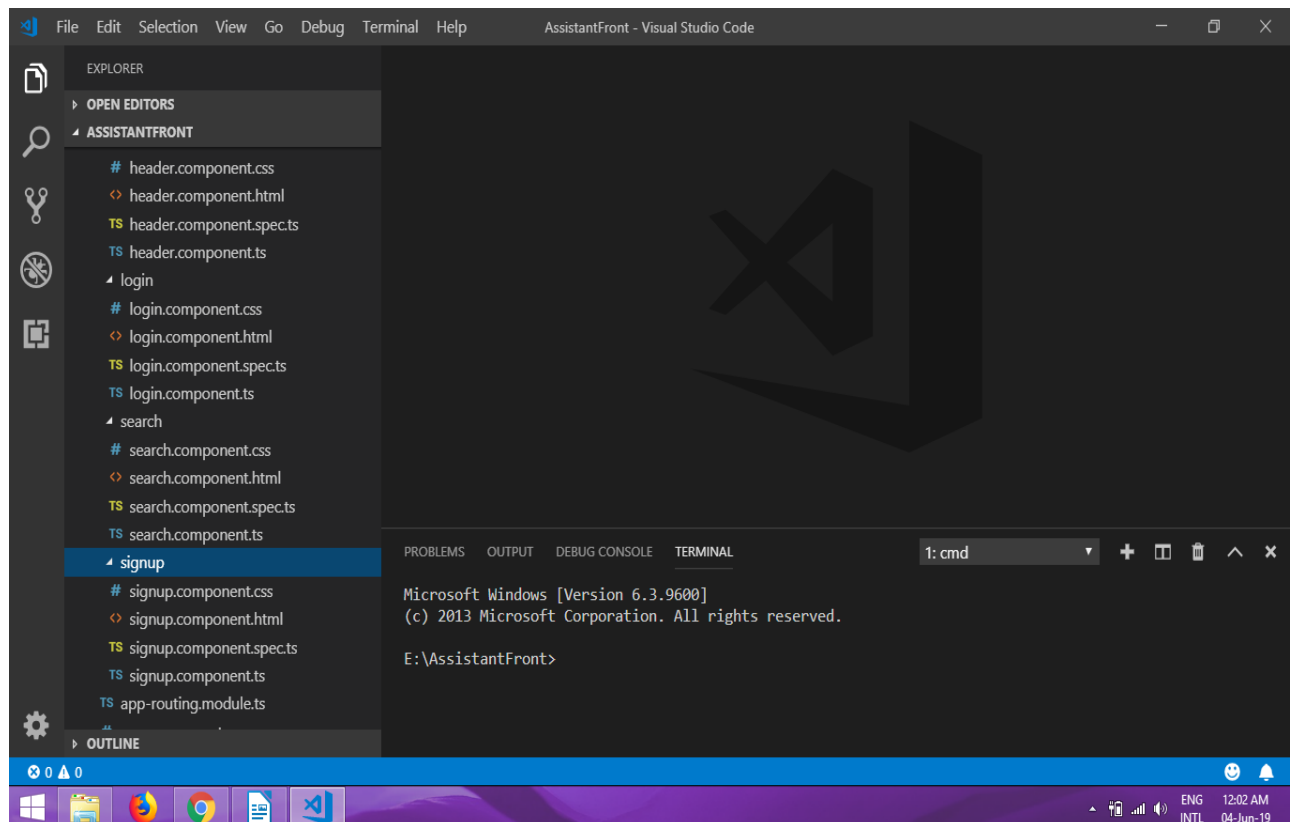
Project title: Web Application Using Restful Micro Web Service for Query Handling

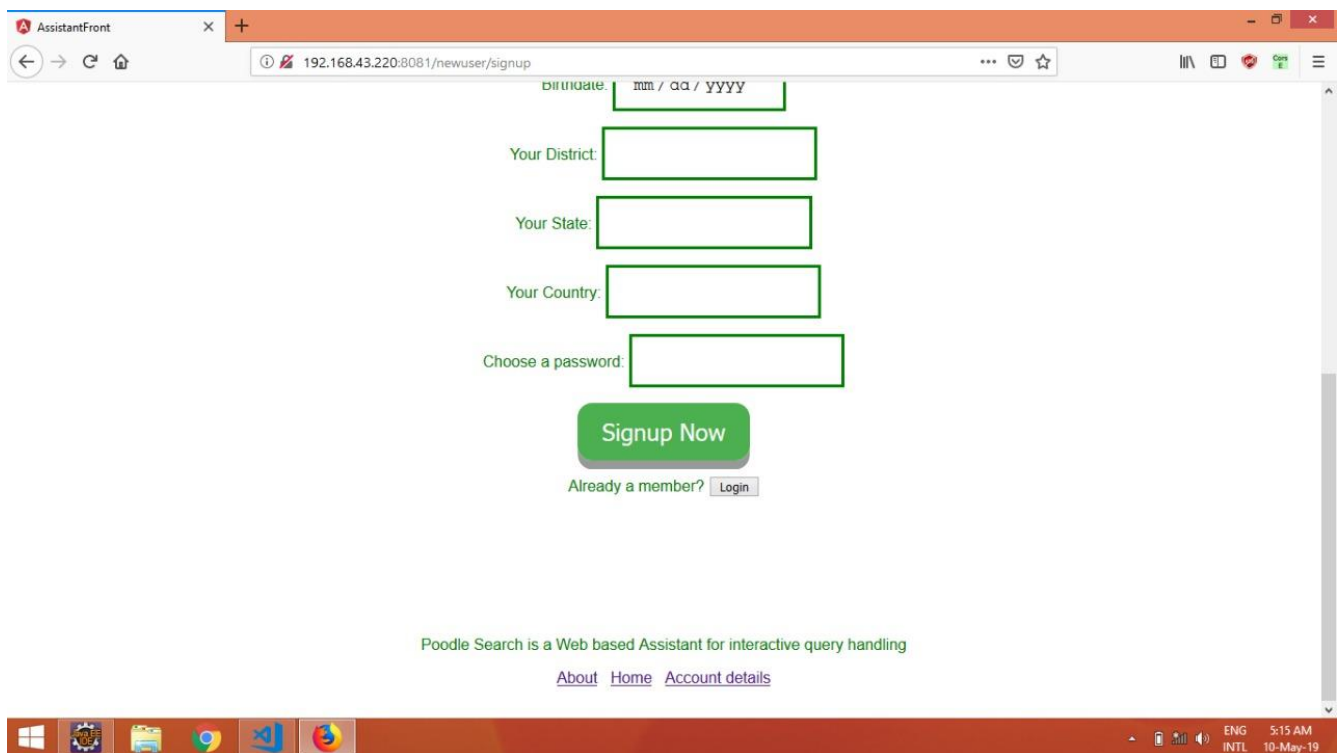
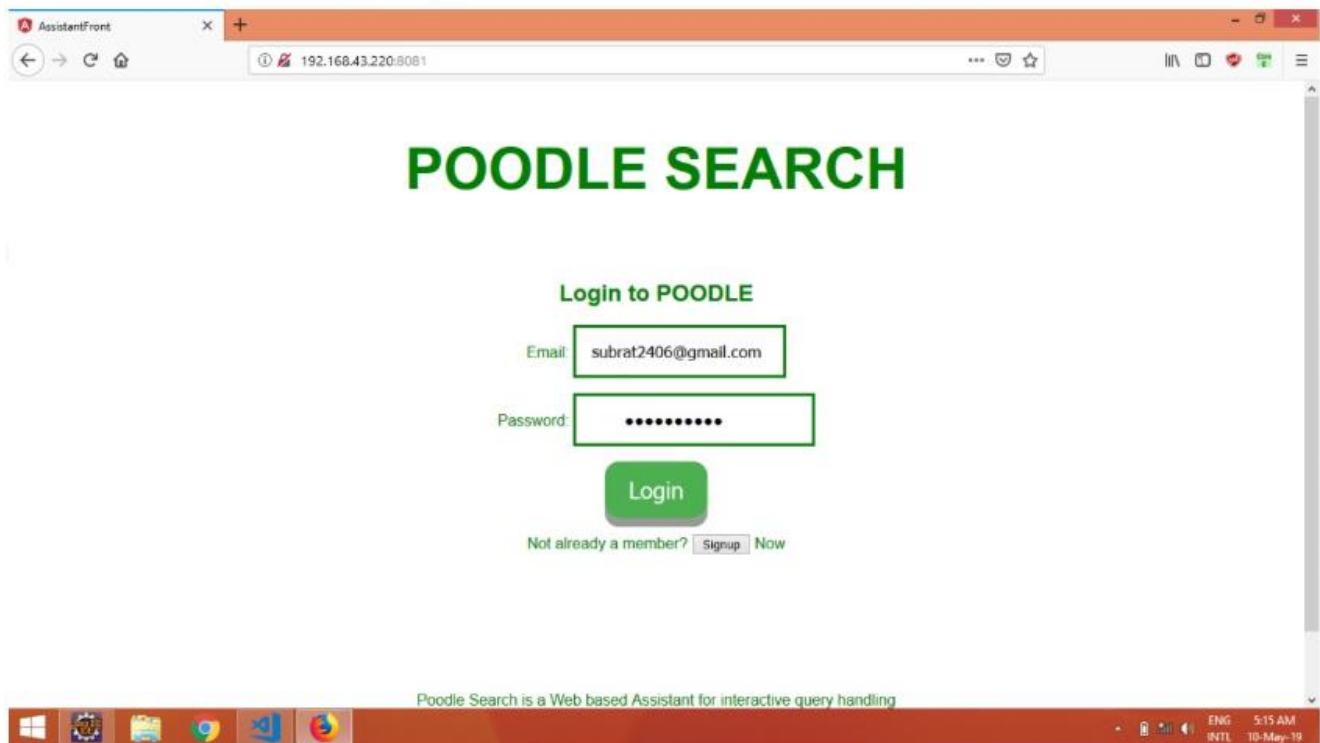
Project final build Github URL: “<https://github.com/subrat211/digitalAssistant>”

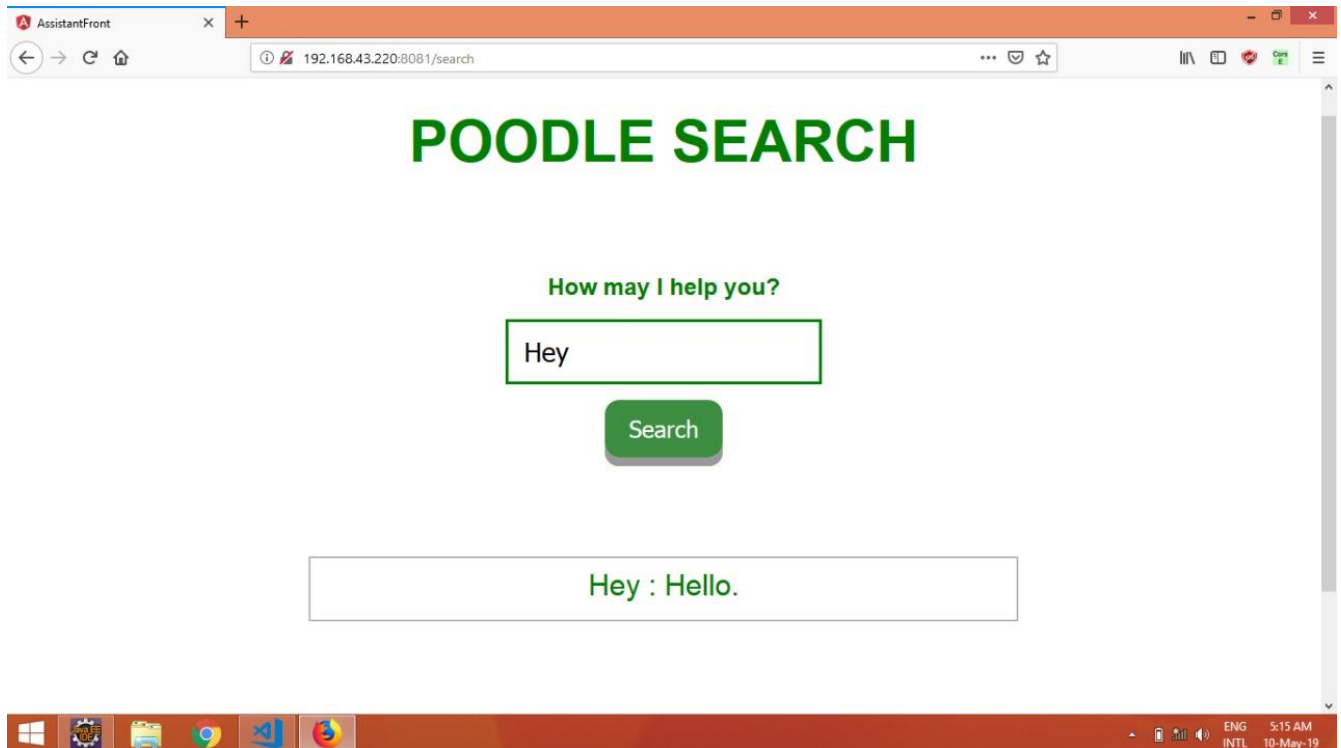
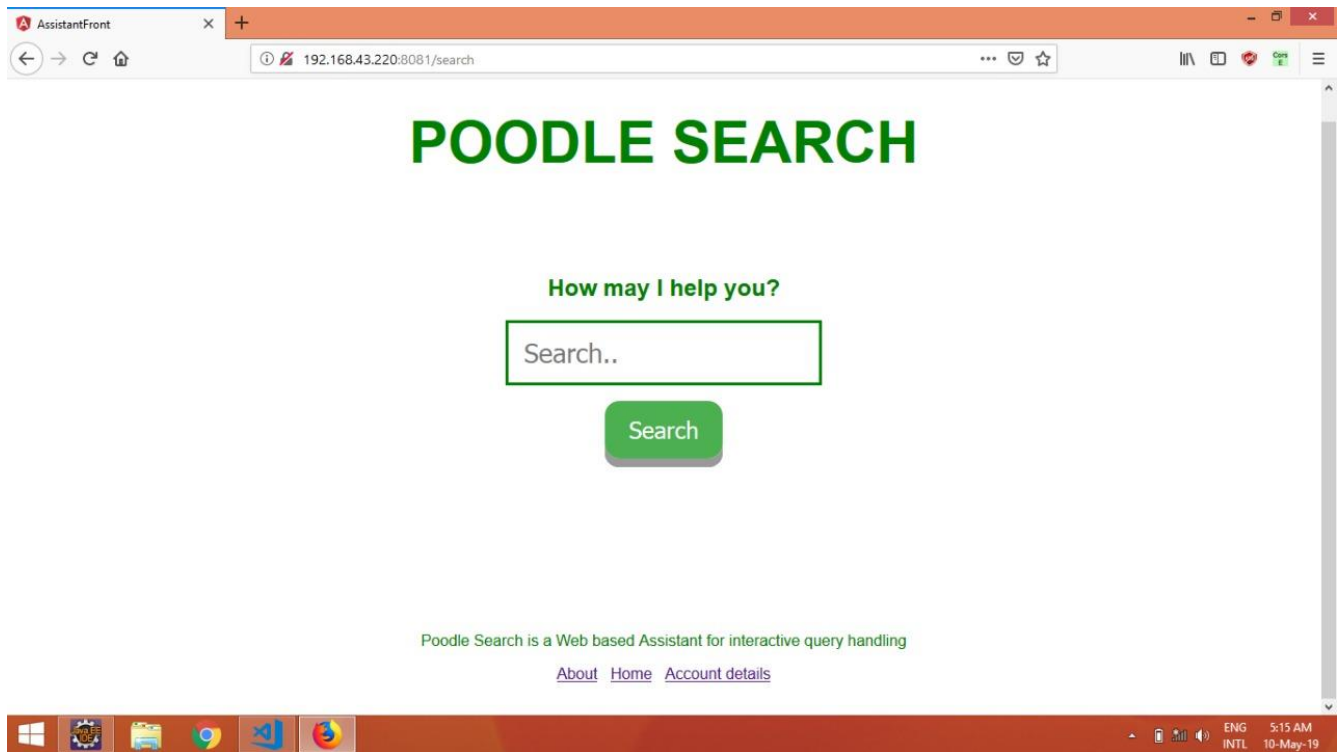
Project overview:

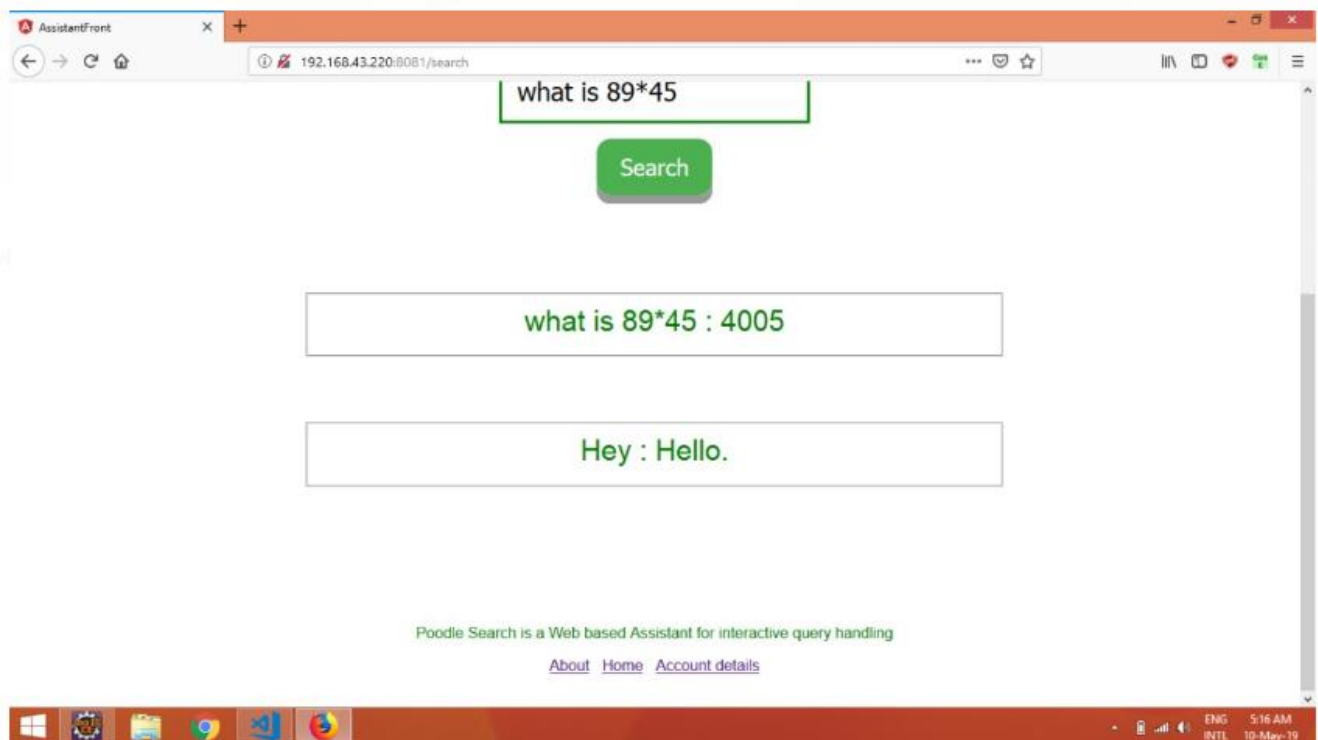
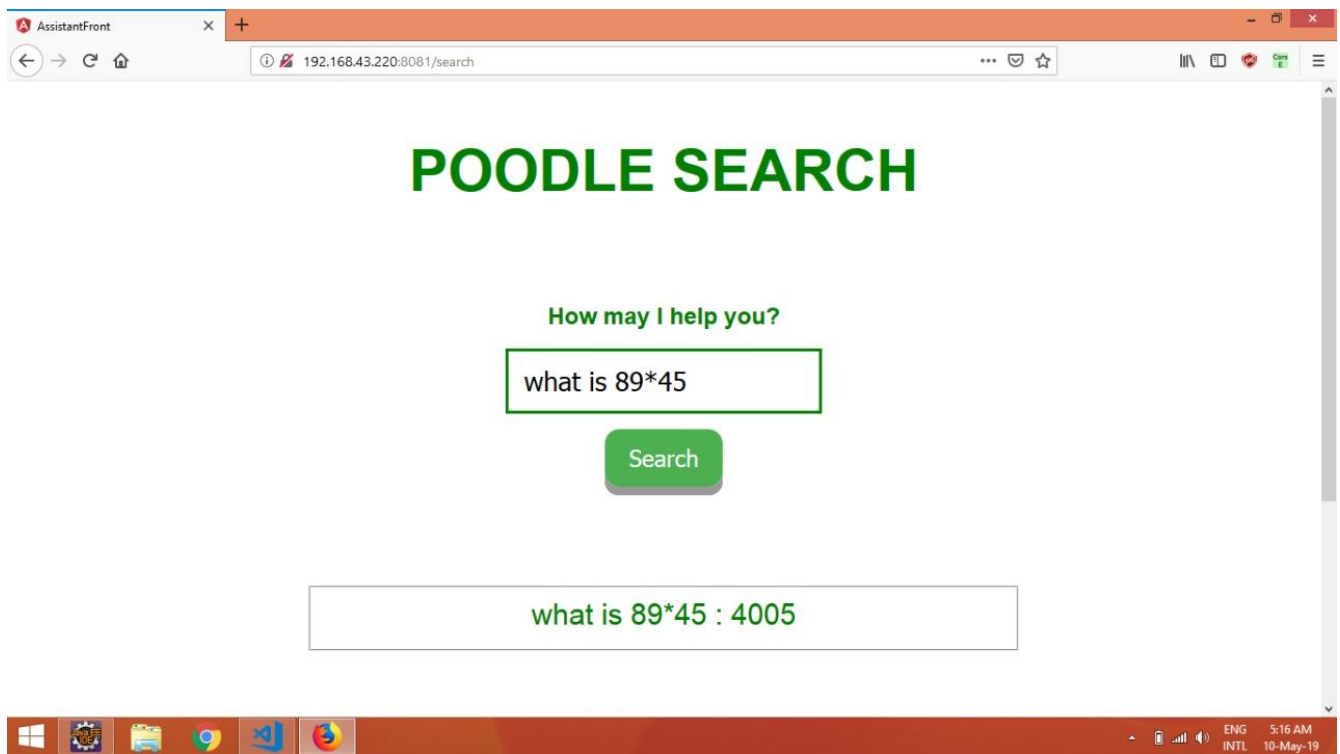
It is a web based “Digital Assistant” where the front-end was written in Angular 6 and back-end was written in REST Web Service. Back-end used WolframAlpha's API for answering dynamic user queries like finding the weather of a place, etc. while more static queries like greetings, fun question, etc. were handled by local SQL server. For achieving this the query was parsed to get rid of the stop words then the program decides who will handle the query either the local database or WolframAlpha Api. Testing for the back-end API's were done on POSTMAN REST API Client. Coming to the front-end HTML and CSS were the main player and as the Angular follows component approach there were separate files for HTML, CSS and TypeScript for each module. There were 5 components namely “Header”, “Footer”, “Login”, “Signup” and “Search”. The header and footer components were used in every page of the application as a static element. Each component contains their specific elements as shown

Screenshots:









Project 2: School Attendance Monitoring System

Project title: Attendance Monitor System

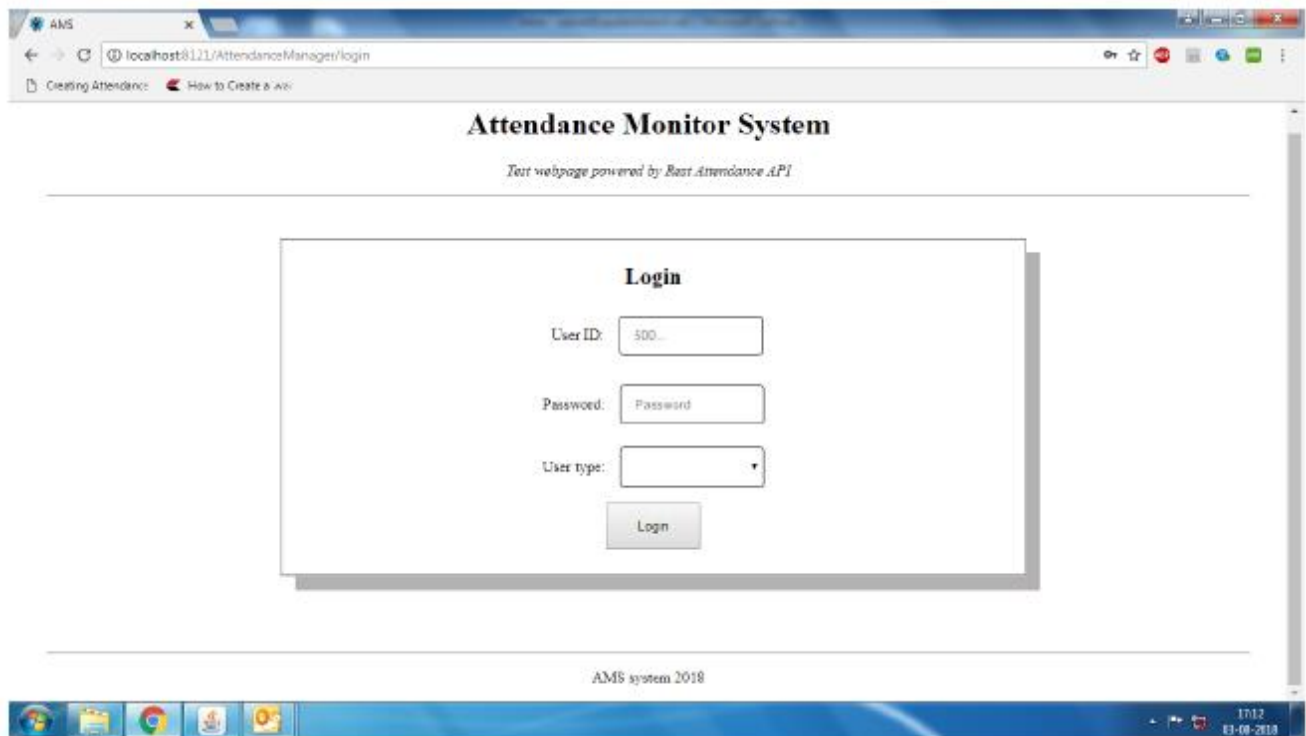
Project Report: https://drive.google.com/open?id=1J6pcSpJoJ_Pd4PBsMiBJCEH3WIHv2Bo4

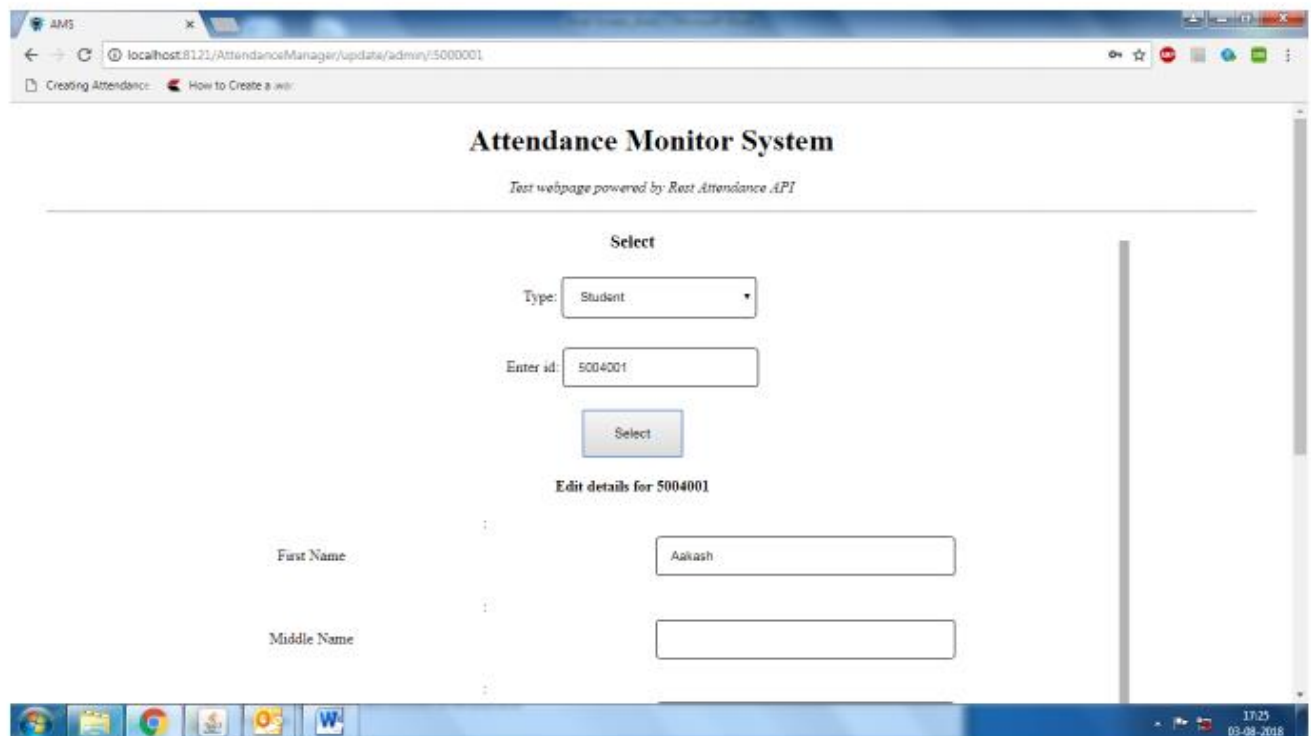
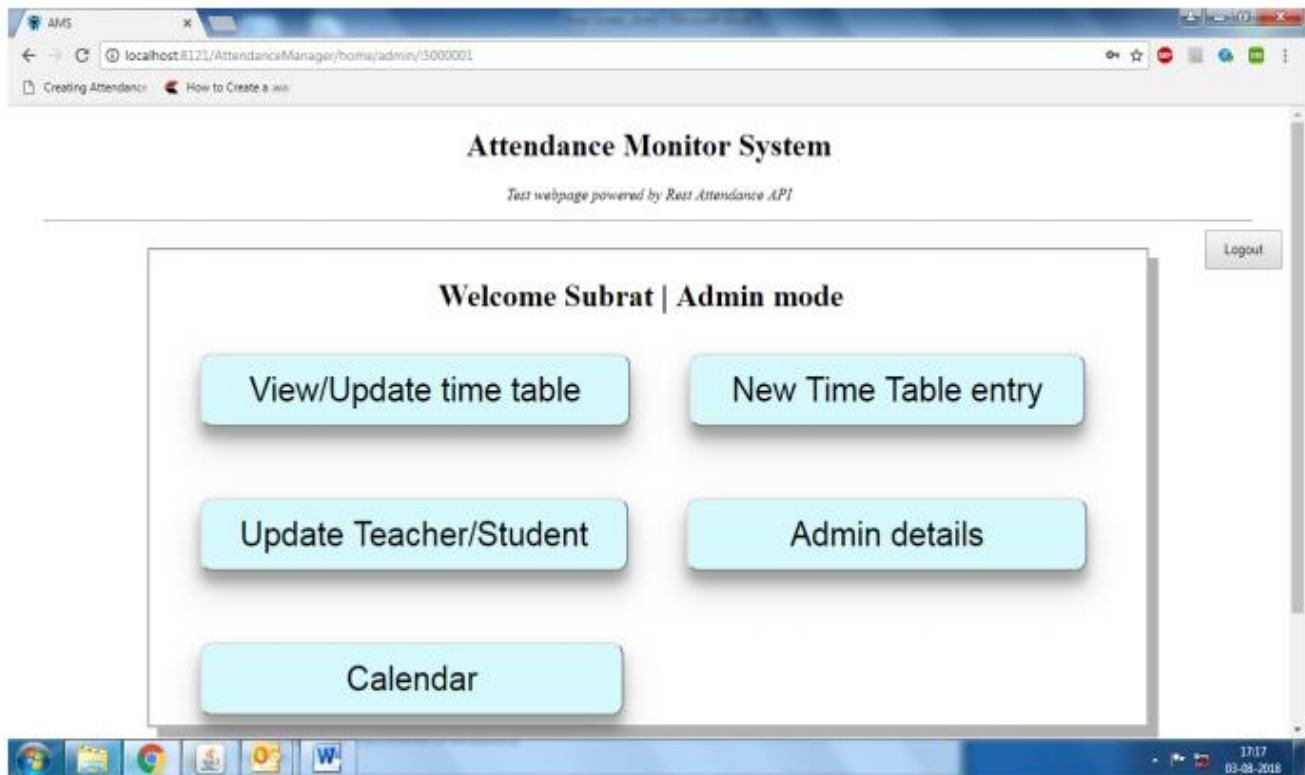
Project overview:

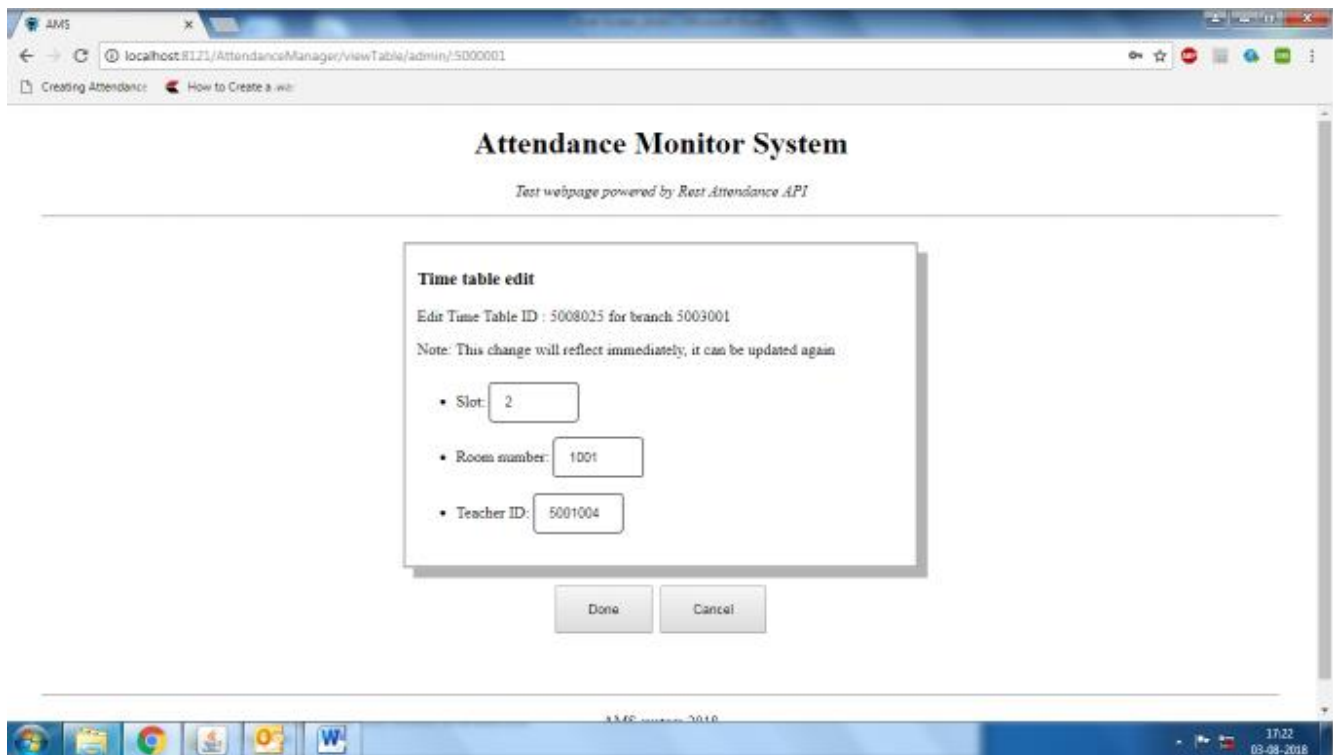
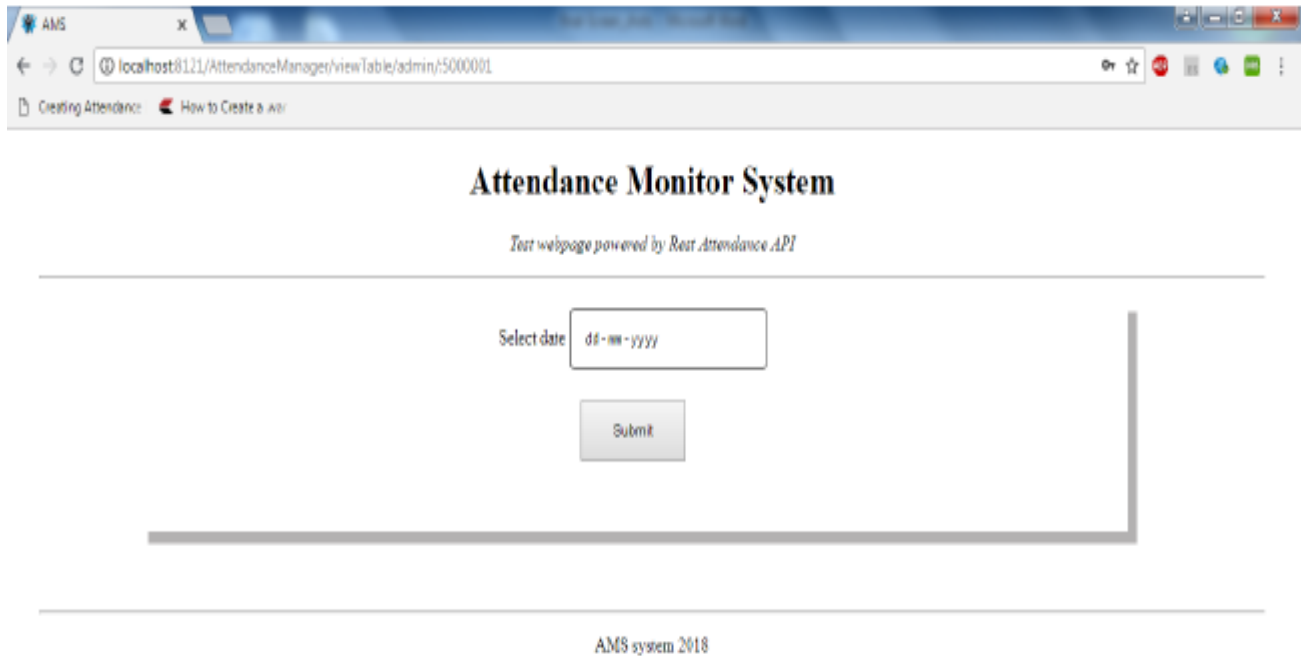
It is a web-based Attendance Monitoring and Management system where the front-end was written in Angular 6 and back-end was written in REST Web Service. The same component based approach was used, with component namely “Header”, “Footer”, “Login”, “Signup”, “Home”, “Details”, “AttendanceView”, “AttendanceUpdate”, “TimeTableView”, “TimeTableUpdate” and “DetailsEdit”.

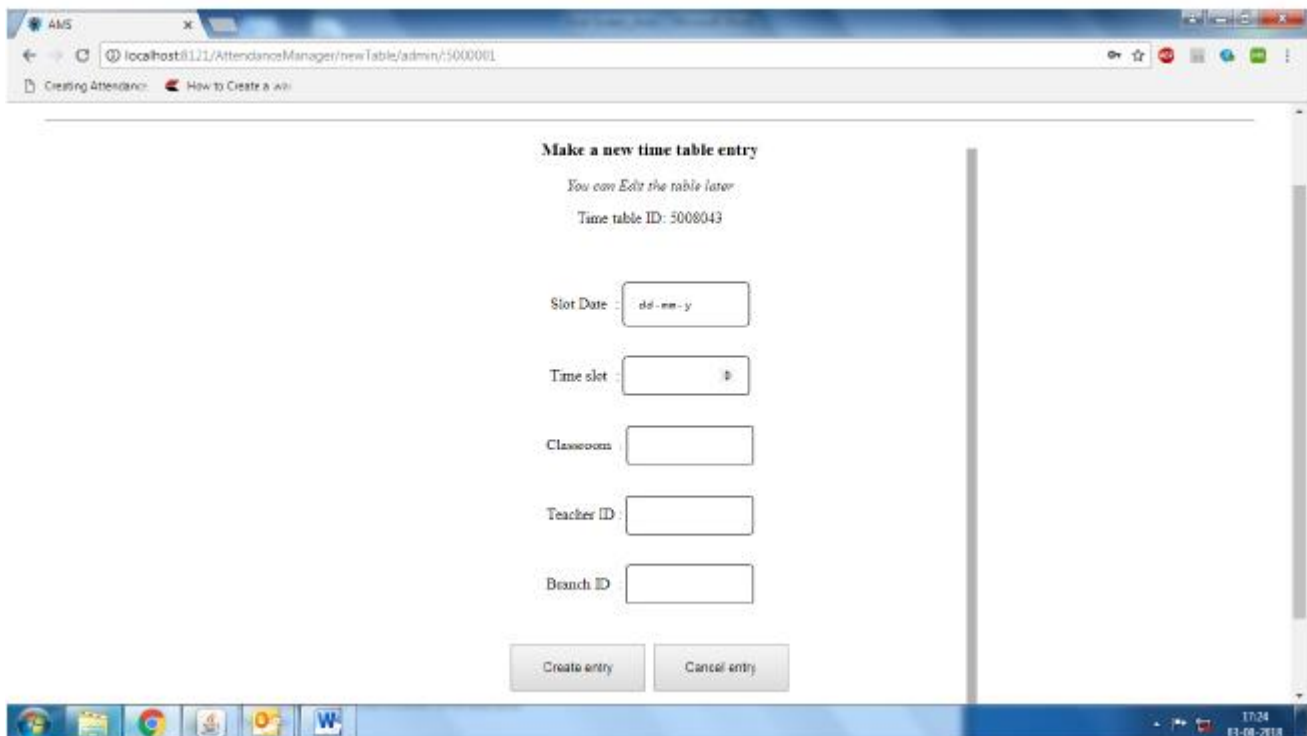
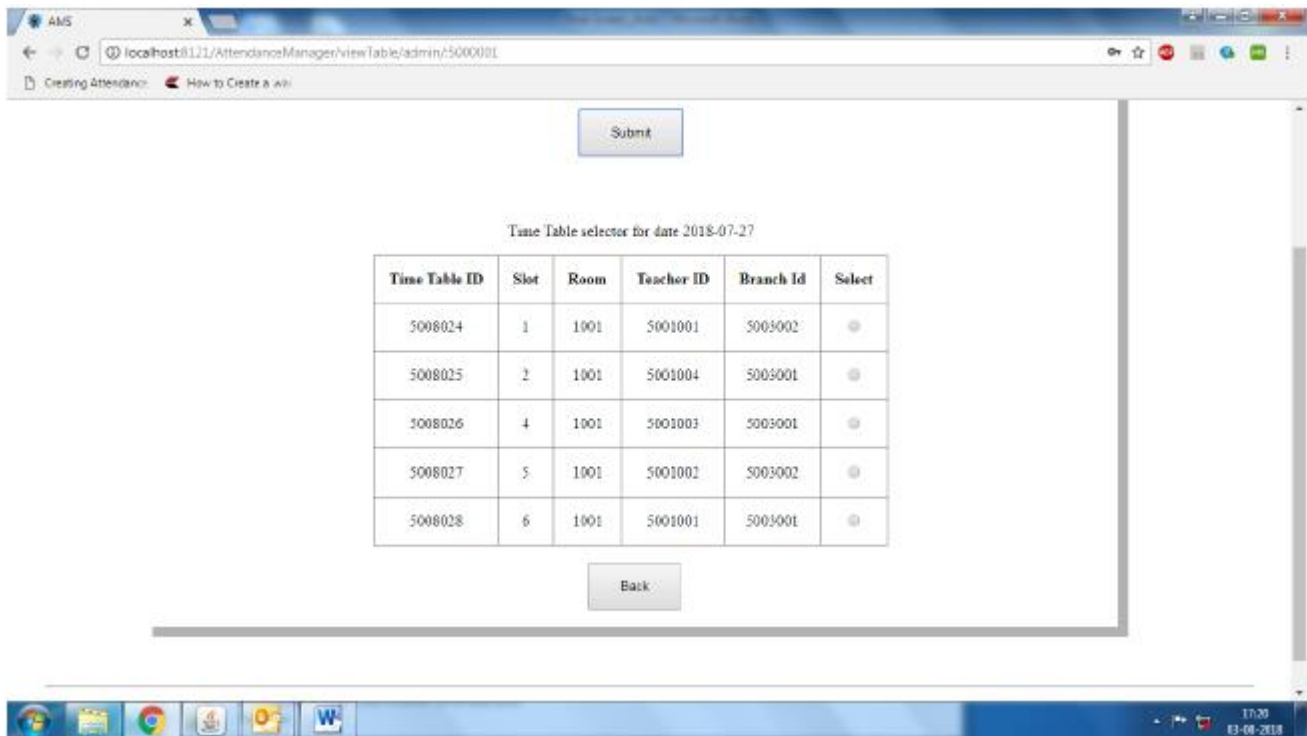
In this the Student, Teachers and Admin can login from the same login page using their login id and password. They after validation by back-end will be redirected to the home page with their access view. From their every actor can perform their specific role that is of checking the timetable and attendance for the student, checking the time-table and marking student attendance according to the time table and student branch for the teacher while the admin can add new entry to time table, view old time table and update details of everyone in the system except their own. Teacher and Students can view their own details and update their phone number and address.

Screenshots:











Project 3: Web based chatting application

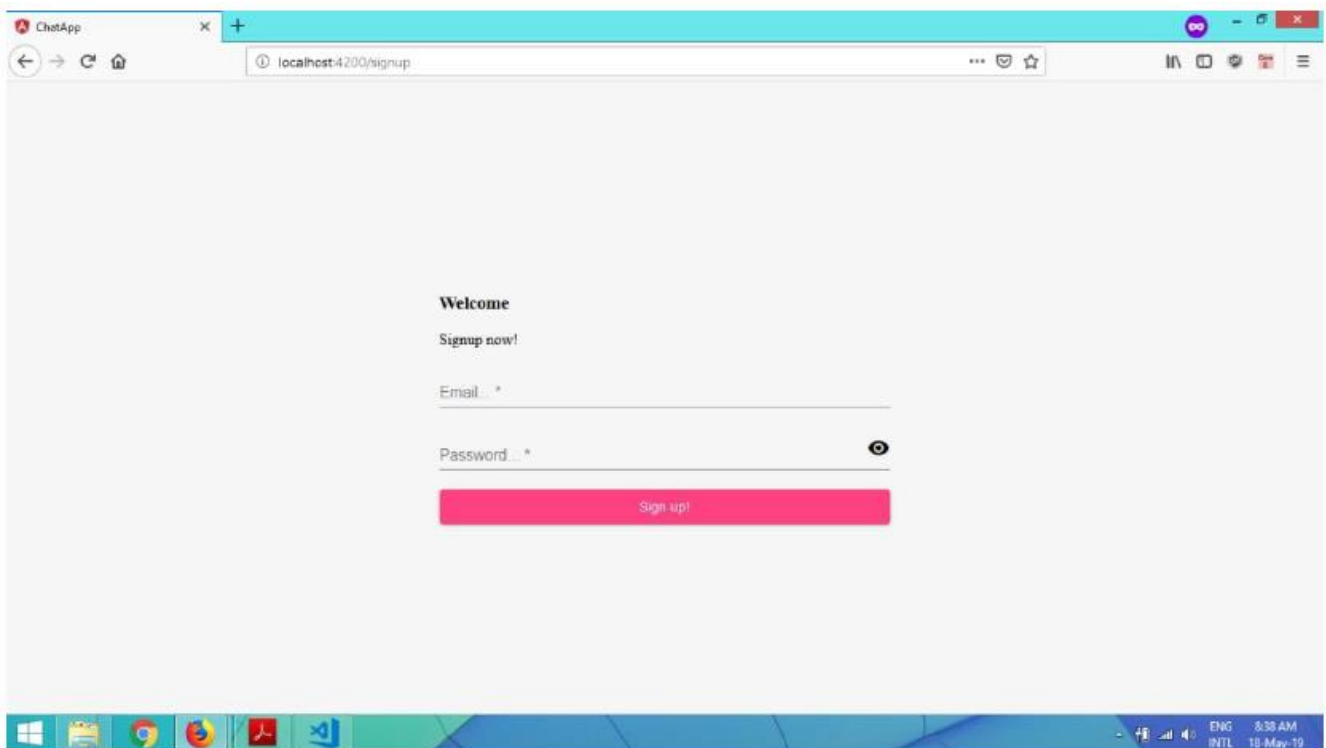
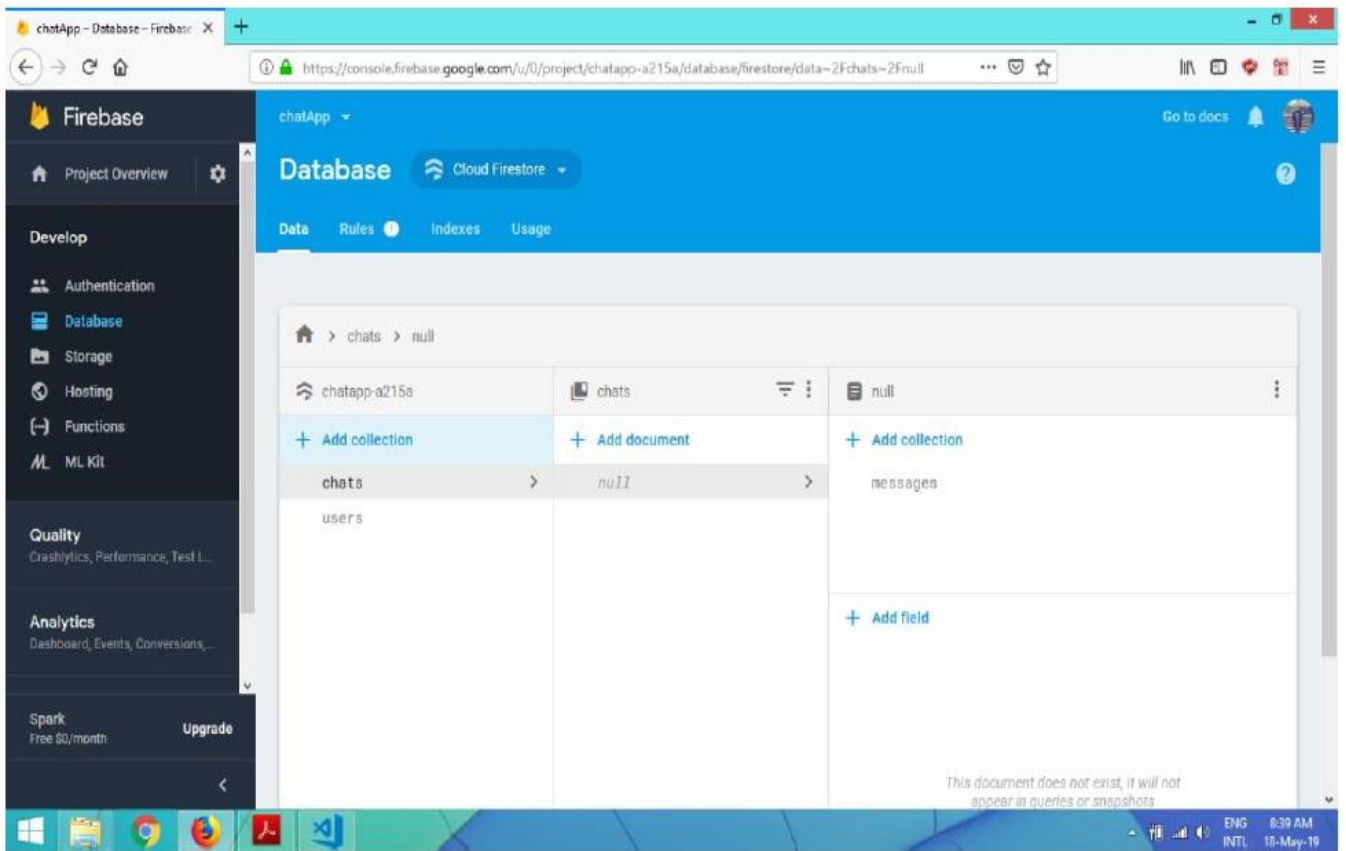
Project title: Chat App

Project Overview:

It is a web-based chatting application where user can either login or create their account and chat with the people on the network. It uses Firebase as it's back-end, so it is the only project that uses a NoSql database. It uses Firebase build in authentication system to login in the user using Google account or their email id, password combination.

The users can chat in a private session or a public chatroom of their choice, they can create a chatroom of their own. Chats end whenever someone clicks on end chat button. HTML formatting/ DOM manipulation was done using Angular DOM manipulators like *ngFor and *ngIf. The screenshot tells the complete story in detail. The bootstrap font used is “<https://bootswatch.com/simplex/>” for this project.

Screenshots:





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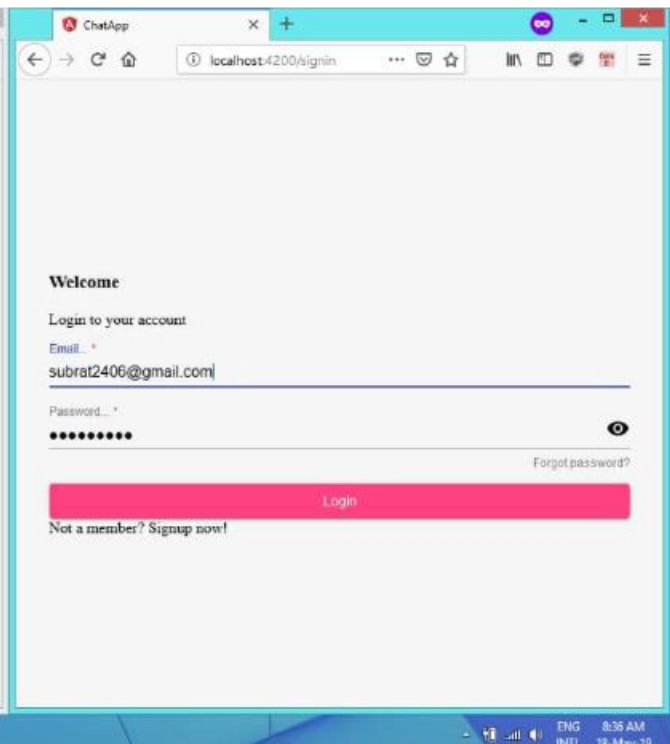
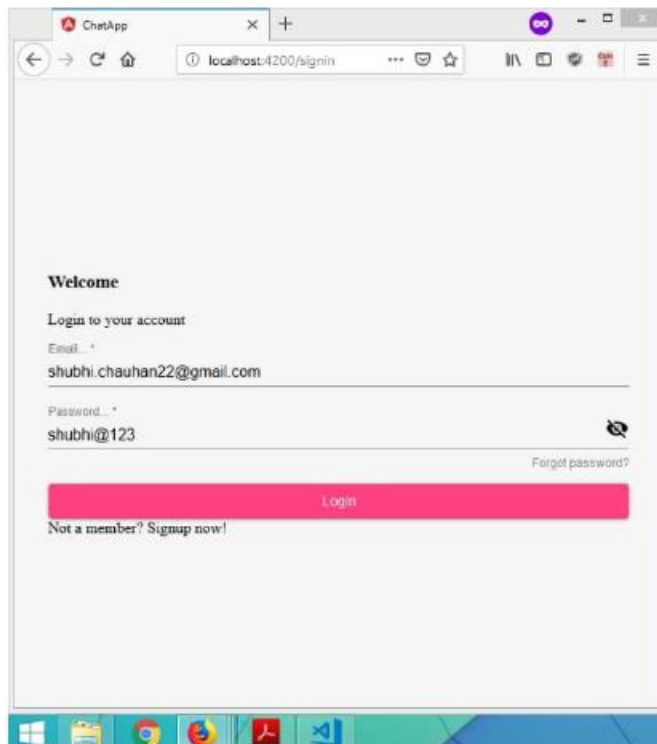


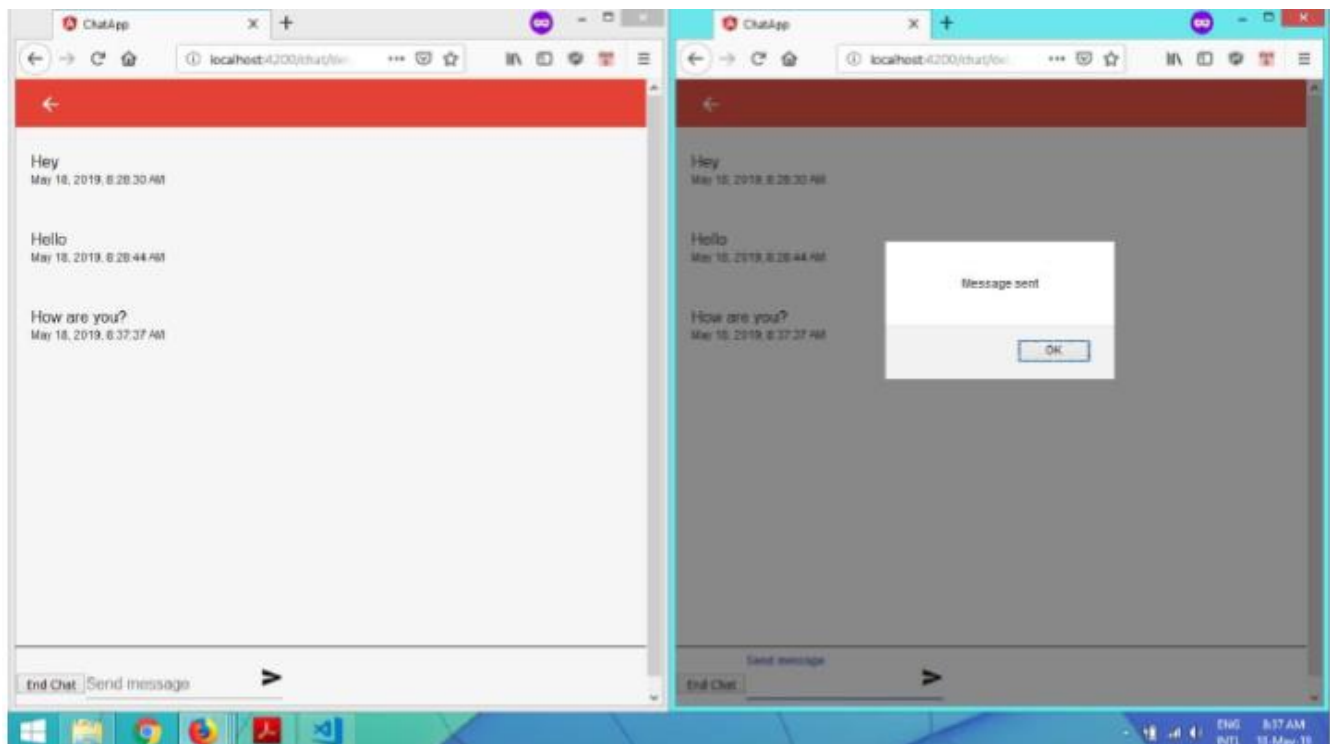
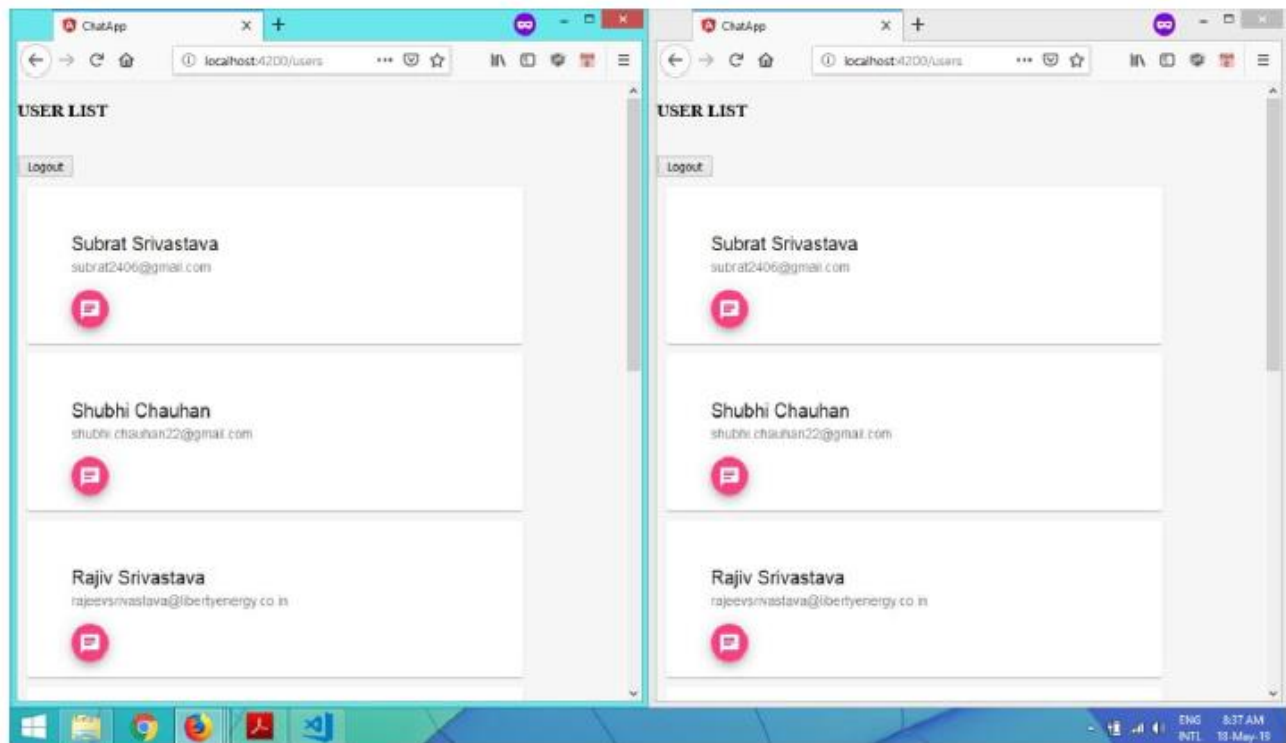
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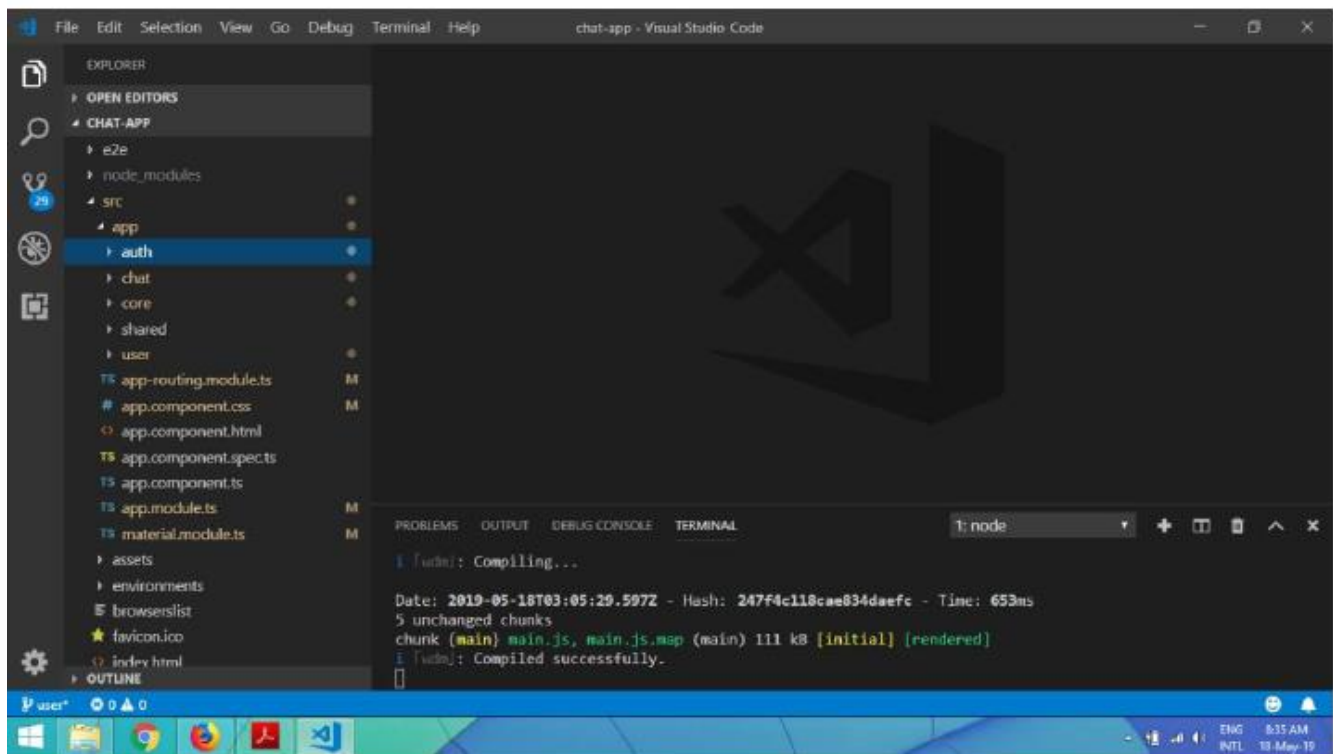
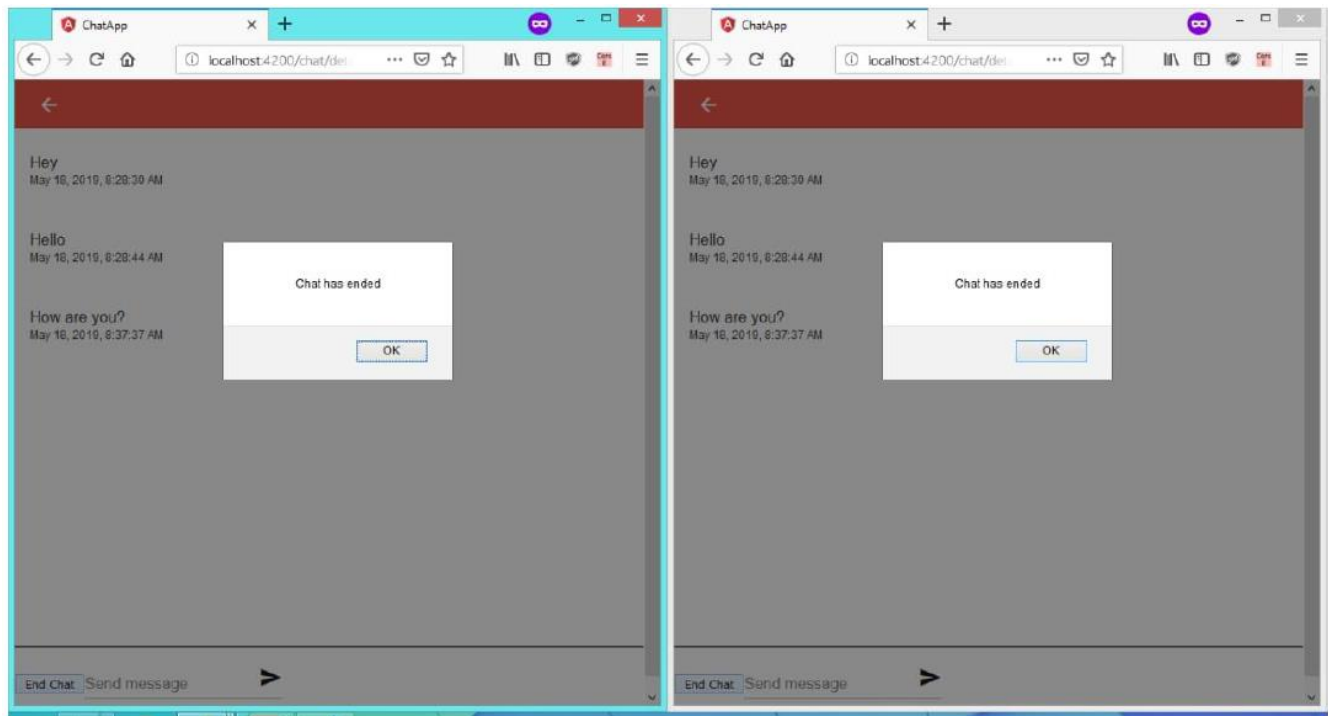


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Challenges

1. Digital Assistant

- There was a problem with the Google Chrome not allowing this application to make multiple Http request from a single page, so I had to enable Cross-origin resource sharing.
- Making a Http request then collecting the result and then again making a request to the collected result from the previous request. I solved it by introducing a wait after the first request until the second request is made.

2. Attendance Monitor System

- The main challenge with this project was making the project dynamic as the data is changing and according to that the DOM needs to be rendered properly. Careful placing of loop control and render control was the solution to it.
- The home page rendering. It was a single page displaying different buttons, so they needed to get the rendering data from the backend. So, I made changes to the backend API to fit my need and return an array of String that is associated to my actor.

3. Web based chat application

- Here the challenge was to implement the front-end without a back-end to which I can flexibly interact to. Obviously, Firebase had its own features like I don't have to handle the login and signup which was plus. But it was like I can't change it according to what I like.
- The FireBase is a tool that is in development and reliable support is not available for it. So, a challenge was to bring all the elements together and hope they work with each other. Version matching of different parts were a big hassle.