Lab 3

Introduction:

We are creating and managing user authentication in MEAN stack application by allowing the user to register, allowing them to save their data, allowing them to return to the login screen, keeping a logged in session of the user active in between the pages that they visit, have some pages that only the user that is logged in can see and change the output of the screen depending on the logged in status.

We are also creating a mobile application that has a good UI/UX, that allows users to login, signup and social login. Once the user is logged into the application it will display a welcome message with the user's details, and there will also be a logout button on the screen for the users to log out once they are done viewing their information.

Objectives:

Create and manage user authentication in MEAN stack application.

Create a mobile application that uses good UI/UX.

Approaches/Methods:

For this assignment we used MVC (model view controller) design pattern. The model part of the design patter handles the state of the application, basically what the application is about. It supplies ways to the query state and the ways to change that state. The view part of the design patter handles the UI (user interface). The view part is what has the templates to render the login page. The controller part of the design pattern is where the user actions from view part get sent to. It receives the user requests and translates them into actions that the model part needs to take and selects the appropriate view to handle the responses.

Workflow:

Android Studio and attempt at Google Firebase login, ran into issues with the sign-in Intent. Familiar intents for navigation and email were also used with no issues.

Parameters:

Part 1:

- Username
- Password
- User Email Address
- User Birth Date

- User First Name
- User Late Name

Part 2:

- User bio
- Name
- Email
- Social Media

Evaluation & Discussion:

We used MongoDB Atlas which was the cloud service that was provided, because we ran into issues setting up local MongoDB. MongoDB Atlas is a fully-managed cloud database that handles all the complexities of deploying and managing the deployments on the cloud service provided.

The android app was fairly simple to work with, the only difficult aspect was getting the user authentication working properly.

Conclusion:

MongoDB Atlas was interesting to work with, especially sicne we were fianlly able to get it working properly. Though for the future we would prefer to use a different front-end framework, like react and some simple back-end framework.

Video Link:

https://www.youtube.com/watch?v=QdC3qh2g_dc&feature=youtu.be