Ionic FireBase

Team 6-1

Introduction:

Creating Basic Login and Registration page using firebase

Authentication and Database along with local notifications plugin.

Main Objective:

- 1. Creating Login and Registration page using Firebase authentication.
- 2. Providing Interface for user to add local notifications to the device using local notifications ionic plugin.
- 3. Saving user specific notification details in firebase database and retrieving the details when user logs in again.
- 4. Deploying the application to ionic/android/web

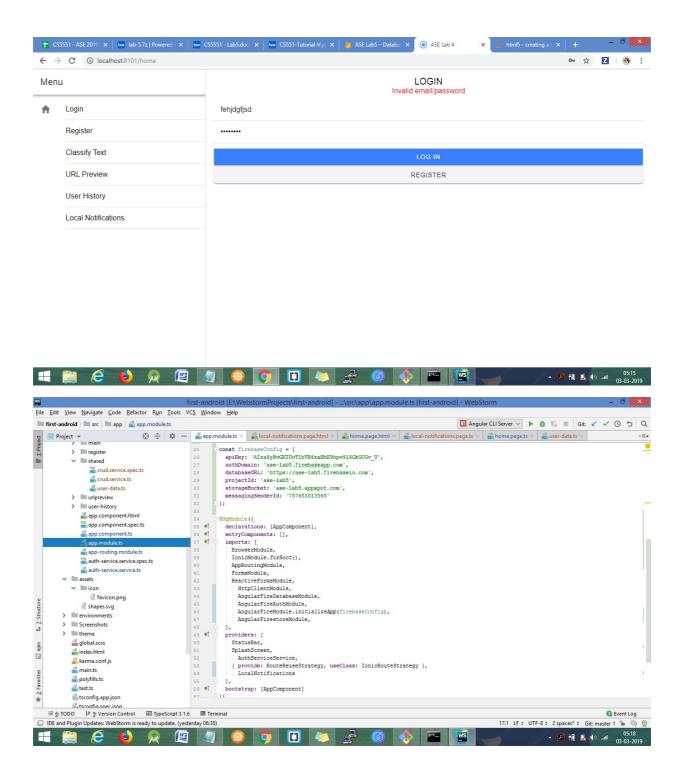
Design and Implementaion steps for above tasks:

Task-1: Creating Login and Registration page using Firebase authentication:

- Created account and authenticated into firebase website. (https://console.firebase.google.com)
- 2. Enabled email/password authentication mechanism for current project development.
- 3. Installing Angular FireBase2 using command npm install
 firebase angularfire2 --save.
- 4. Adding the environment config values to connect with the firebase application.
- 5. Importing required Angualar Firebase Modules for the project like Auth and Database/store
- 6. Replaced local storage with Firebase Authentication method in AuthService file.

Firebase authentication methods like createUserWithEmailAndPassword signInWithEmailAndPassword These methods do basic validations on the parameters/arguments/data (whether email is valid or not , password exceeds 6 chars or not)

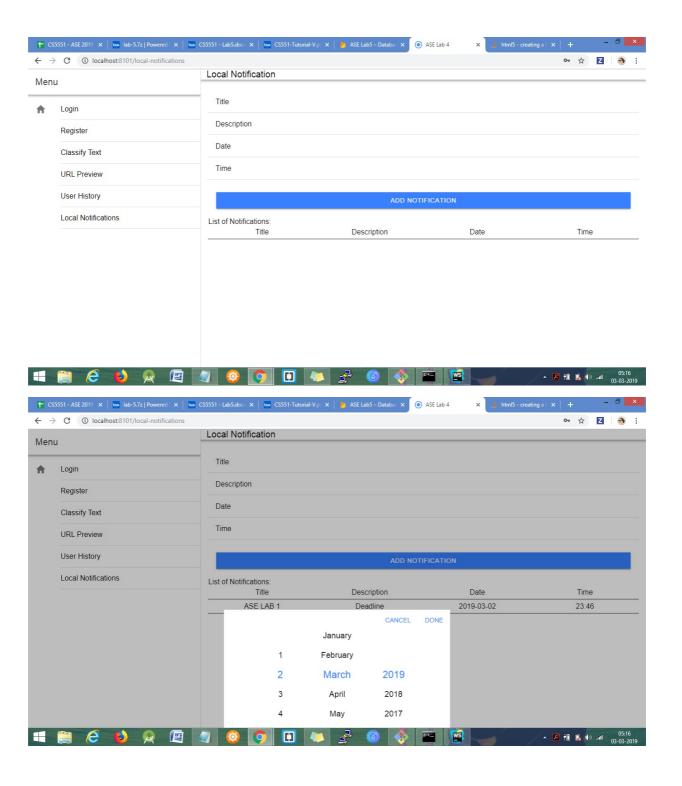
7. Login and Register pages call the AuthService methods for creating and authenticating the users in real time using firebase.

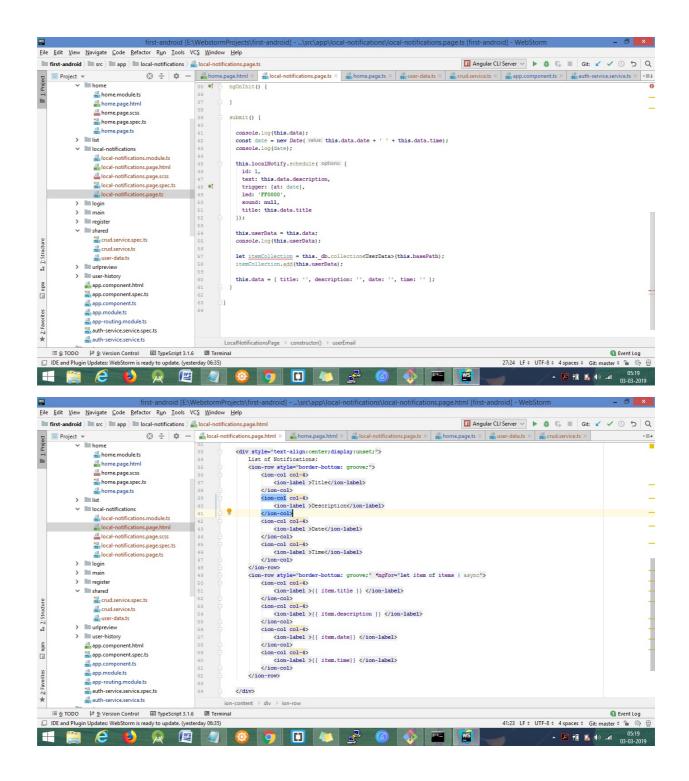


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Task-2: Providing Interface for user to add local notifications to the device using local notifications ionic plugin.

- 1. Created basic html page to allow user to add local notifications.
- 2. Installed Local notification ionic plugin using command ionic cordovaplugin add cordova-plugin-local-notification.
- 3. Imported Local notification plugin provider in app.module.ts
- 4. on submitting the form, scheduling the notification using the methods provided by the plugin.



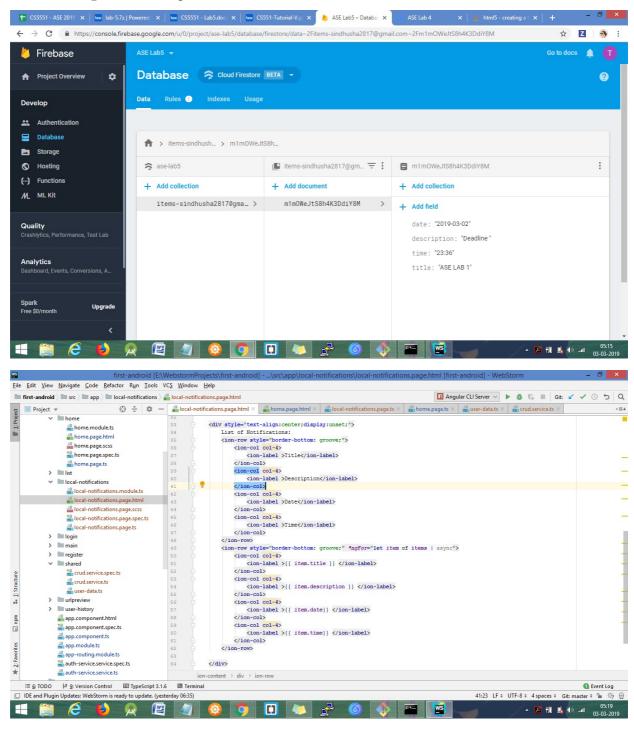


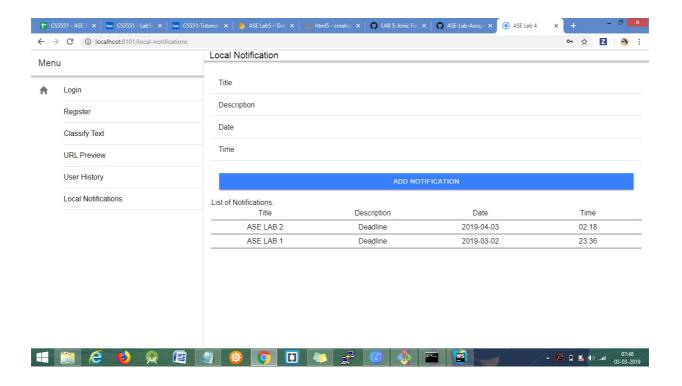
Task-3: Saving user specific notification details in firebase database and retrieving the details when user logs in again.

1. Getting the authenticated user details from the Authservice

provider.

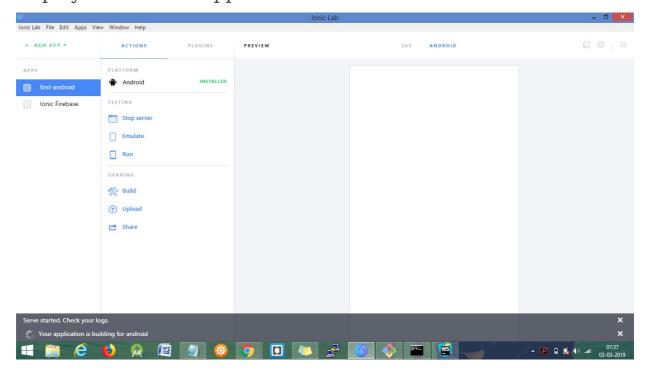
- 2. Creating the collection name with user email address and storing it in firebase real time database.
- 3. Reading the items present in the user specific collection to retrieve previously stored local notification details.





Task-4: Deploying the application in android/ionic/web:

1. Deployed the Ionic Application in Ionic Lab



Conclusion:

- We have learnt how to store user authentication details in firebase and how to use the tools and methods provided by firebase.
- 2. We have learnt how to add notifications to the devices.
- We have also learnt how to store user specific details and retrieve them when needed using firebase real time database and storage.

Task Responsibilities:

- Sindhusha Tiyyagura: Basic Authentication using Firebase,
 Adding Local Notifications using ionic plugin.
- 2. Pradeepika Kolluru: Storing user notification details to firebase database and showing user previously saved notifications when user logs into his account.