**Project Report – increment 2**

**Online Examination with Face Authentication and Question Paper Generator**

**Introduction:**

This report is going to talk about how we created question paper generation and mainly talks about creating database of the question paper and UI for the test site and user profiles and organising them.

**Softwares used:**

For this increment the following mentioned are the pre requisites, we can download them from the chrome or any browser and we are using S3 bucket service from firebase, for that we should create a firebase account and login to the console.

Angular cli has to be installed in node.js using certain commands.

We scraped data from a website for the data needed in question paper generation and we used it in the application through python in the backend.

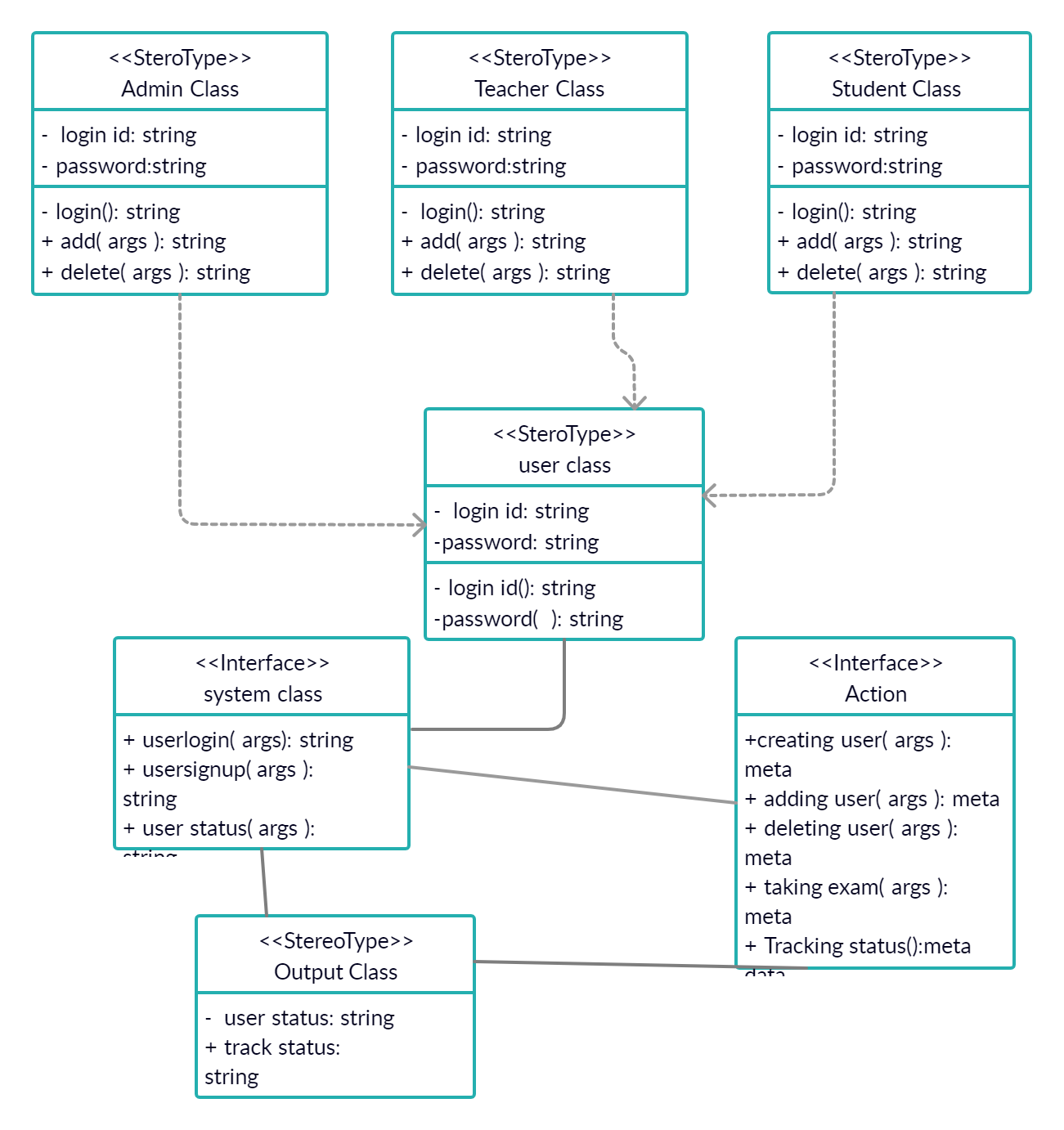
The code editor can be downloaded from the browser and you have install node.js into it to run the application later.

These are only pre requisites for the part that done in first increment, the required tools for further project is discussed later

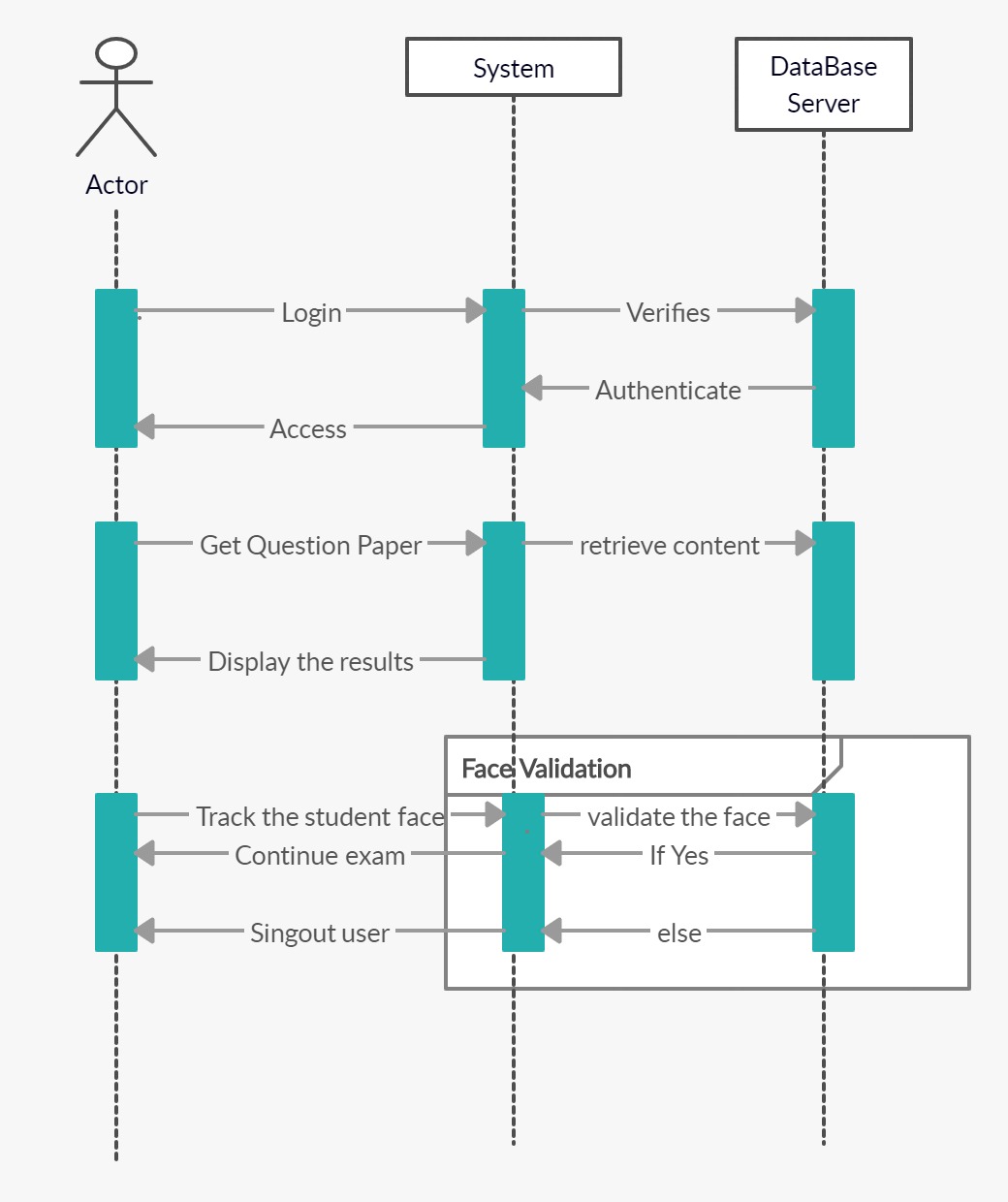
* Node.js (latest version is preferred 12.15.0)
* Firebase Account(authentication,database,storage)
* Angular cli.
* Code editor(any)
* Firebase account
* Python cli.
* Material 8 (UI)
* Angular 9(UI)

**Detail design of features:**

The detail design of all the features that going to be introduced and implemented in this project are shown with using following diagrams, we are going to use architecture diagram, class diagram and sequence diagram to show the overview of the project.

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**Sequence Diagram:**

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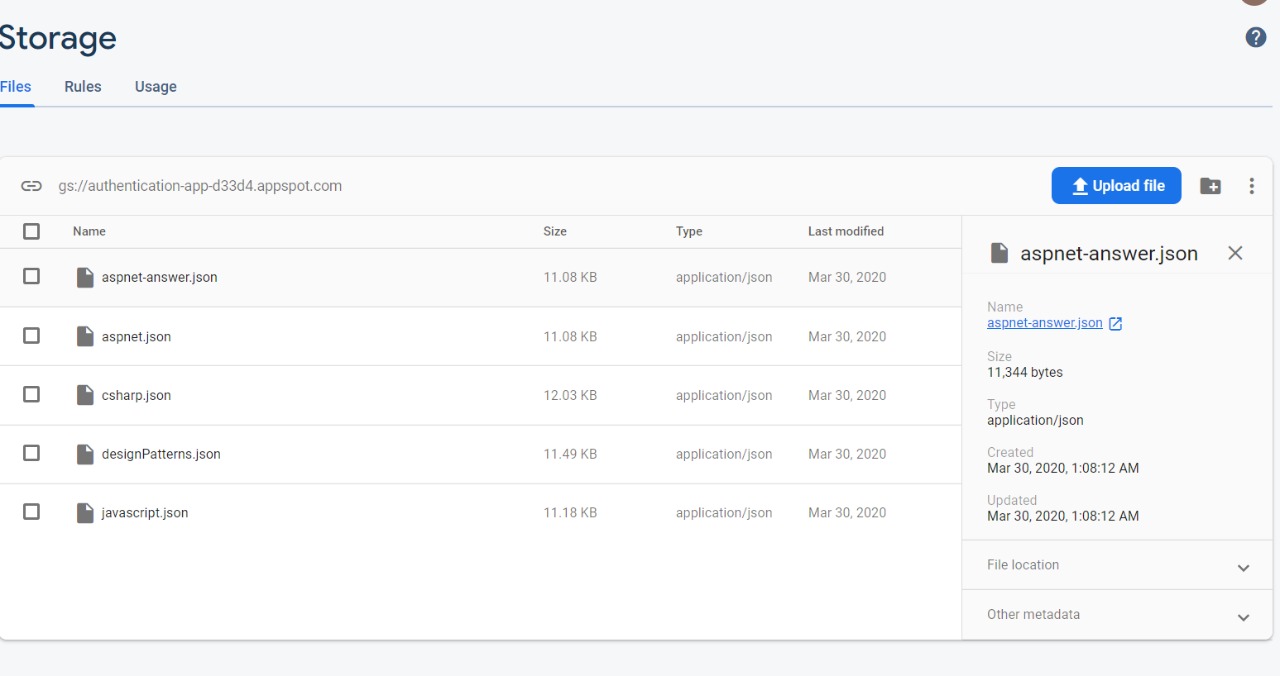
**Testing:**

the testing here in this increment is done for the question paper generation and how the questions written by student and key answers are compared and how the UI of the student profile and the whole UI of the application looks like.

<https://github.com/RoshiniVarada/ASE_PROJECT/blob/master/unit%20testcases.xlsx>

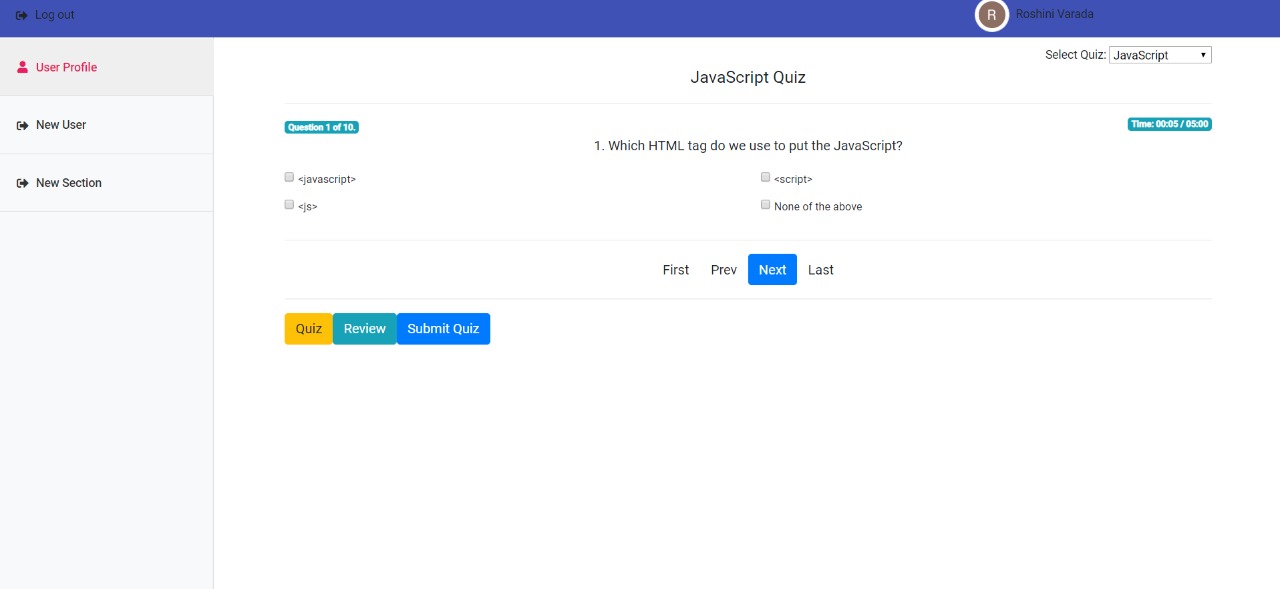
**Implementation:**

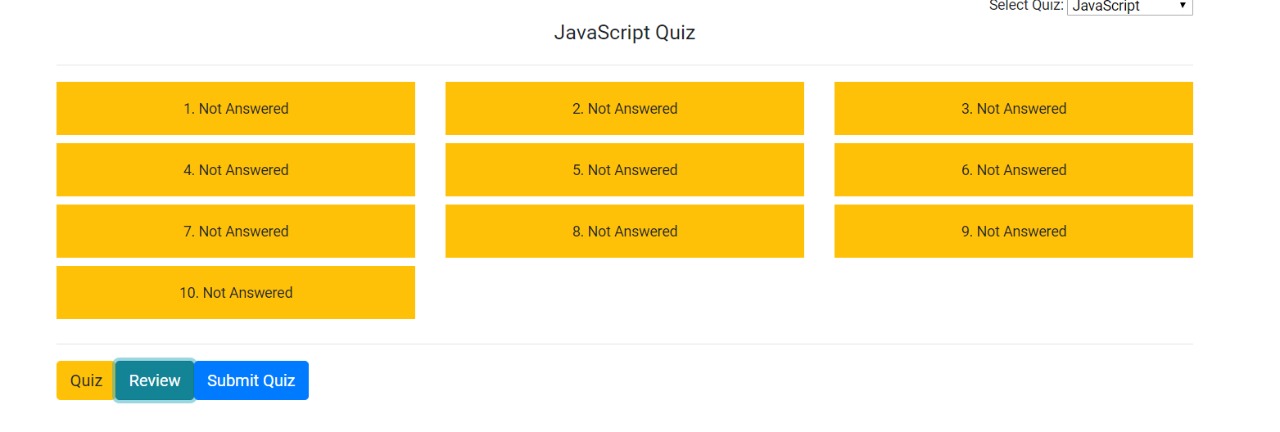
* We did further progress for the increment 1 in this increment, the progress until this increment are listed below.
* We created firebase account and we are making use of S3 bucket service of it in this increment, from internet we took reference of some data that useful for question paper formation and we scraped that data and hosted in S3 bucket to make use of it.

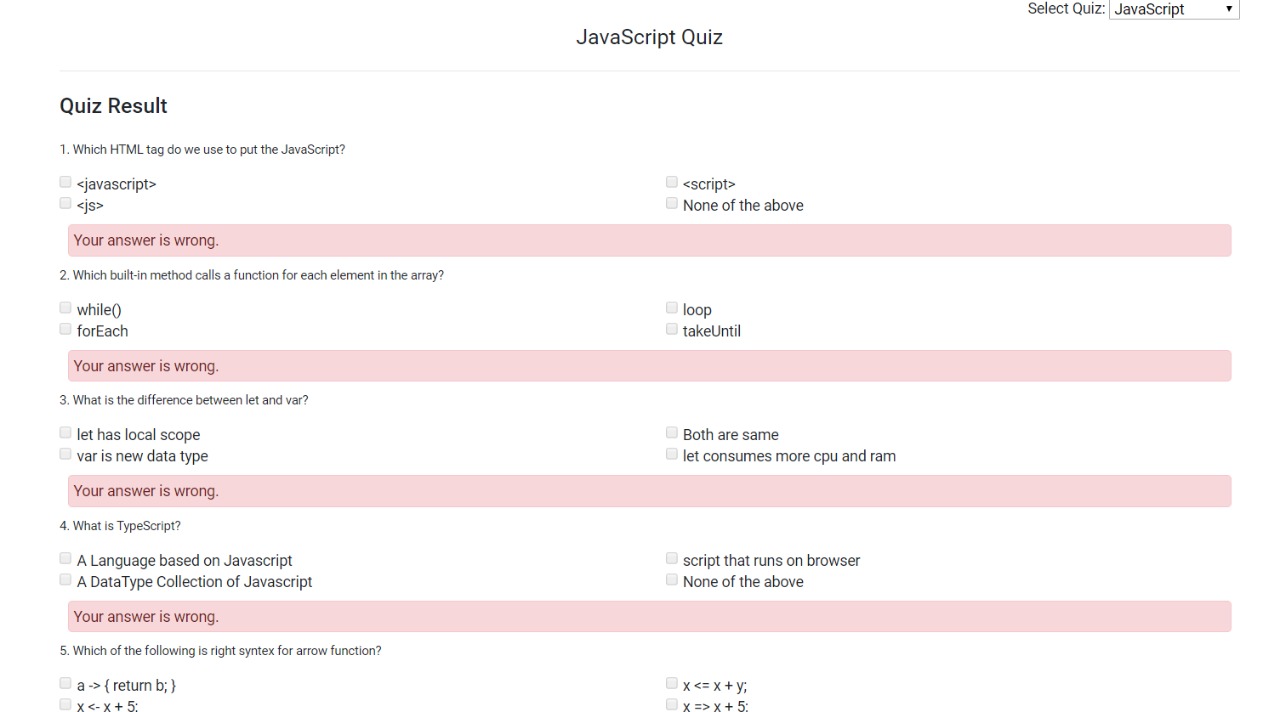
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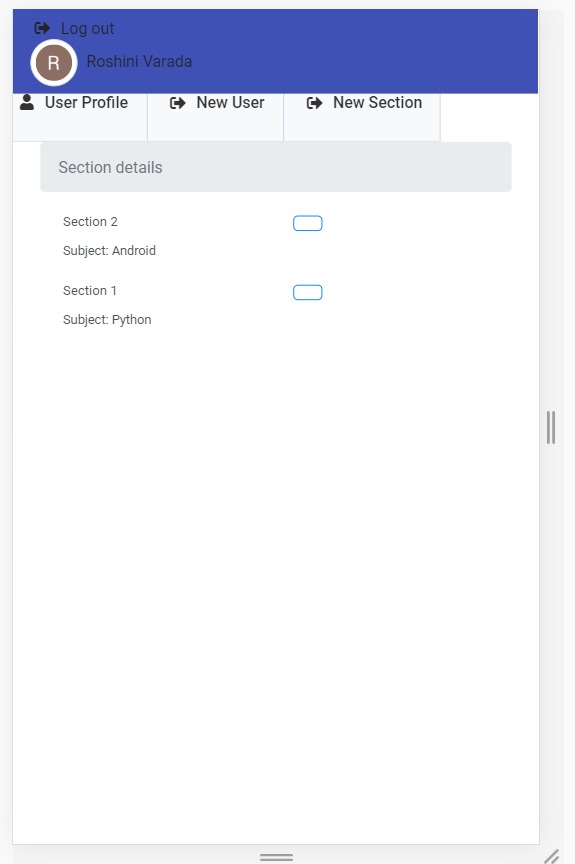
**Quiz Implementation Screen shots:**

The following images show how the quiz is implemented and how the question paper looks like and how the evaluation done.

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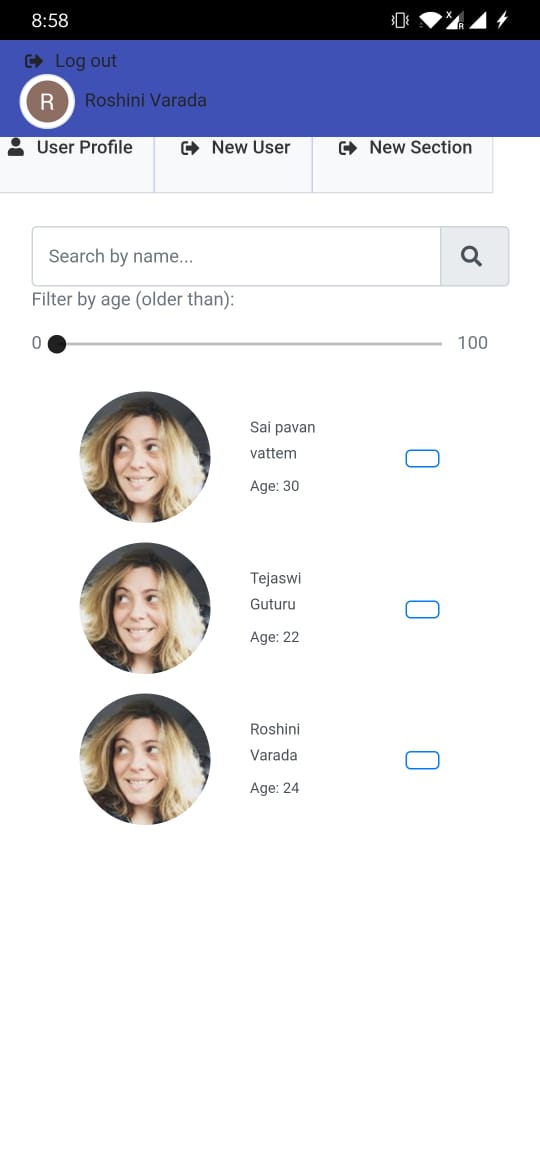
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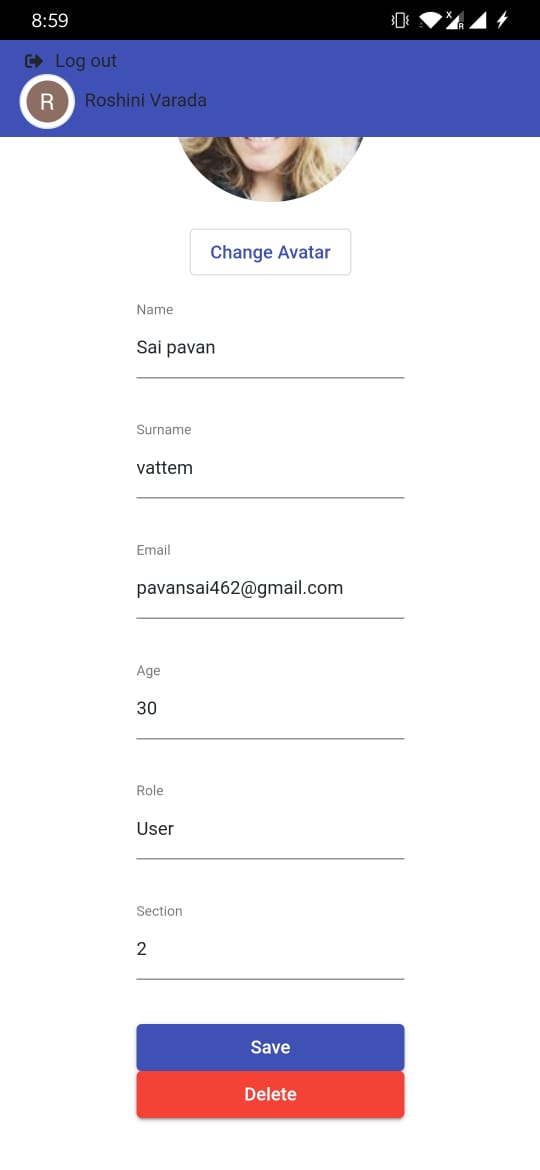
* The following are the links we have used to create and host data in firebase

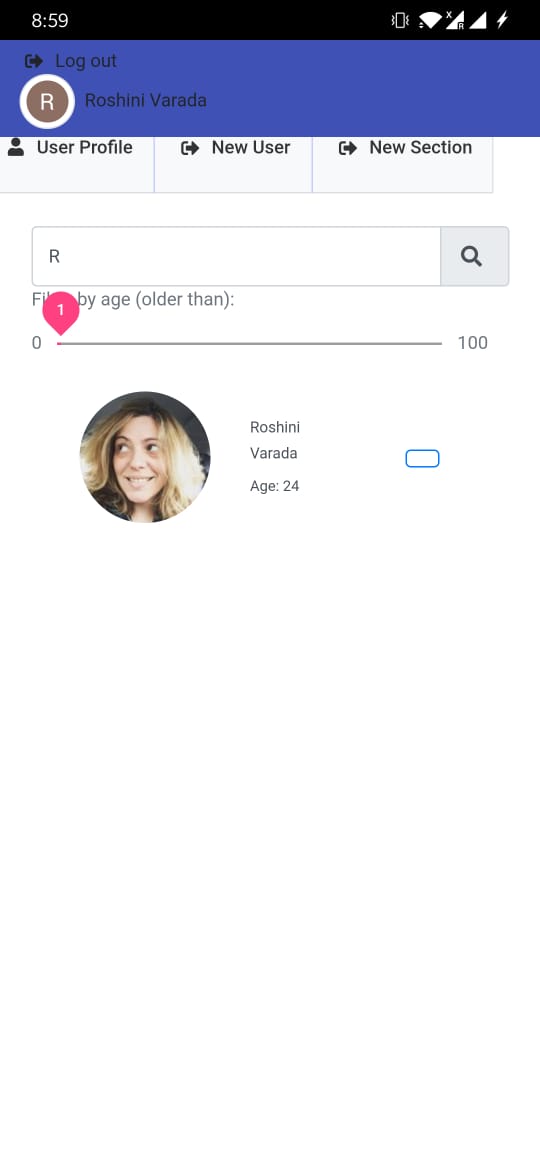
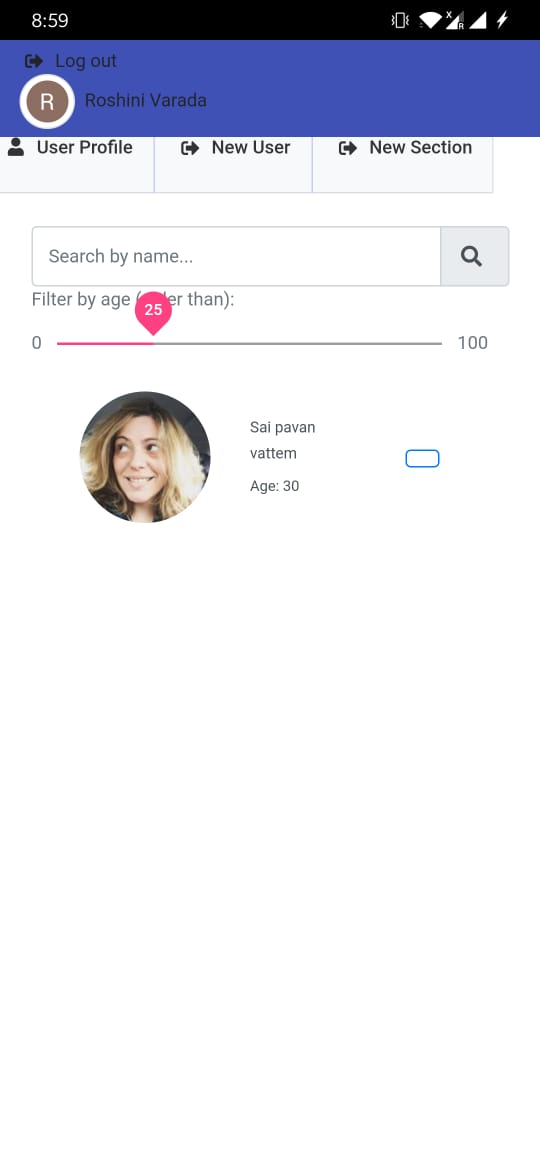
[**https://firebasestorage.googleapis.com/v0/b/authentication-app-d33d4.appspot.com/o/aspnet-answer.json?alt=media&token=fcc46b1c-ab4c-466e-a30b-b3b4d77f312c**](https://firebasestorage.googleapis.com/v0/b/authentication-app-d33d4.appspot.com/o/aspnet-answer.json?alt=media&token=fcc46b1c-ab4c-466e-a30b-b3b4d77f312c)

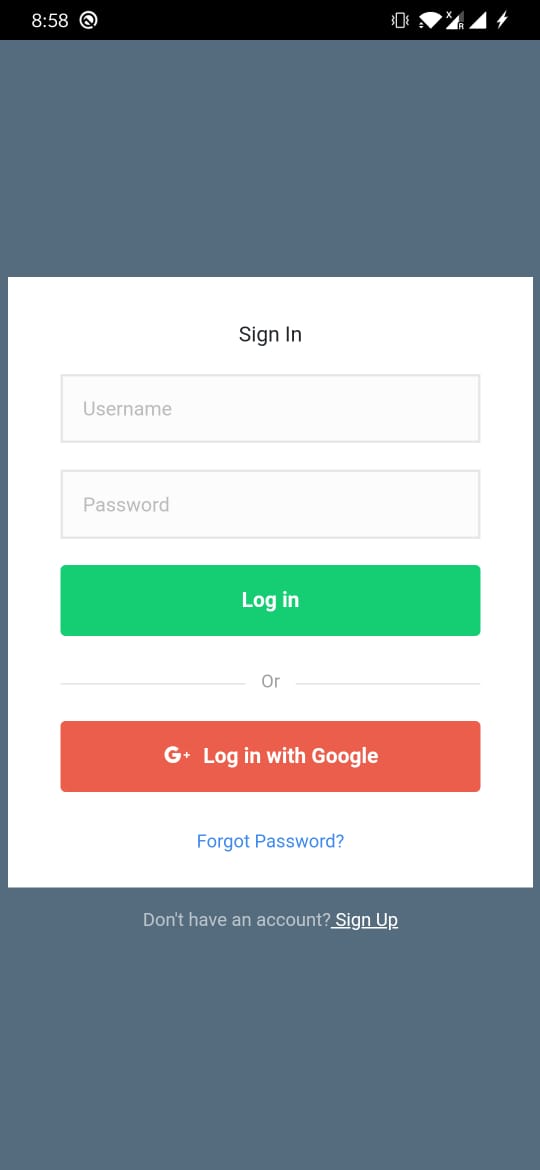
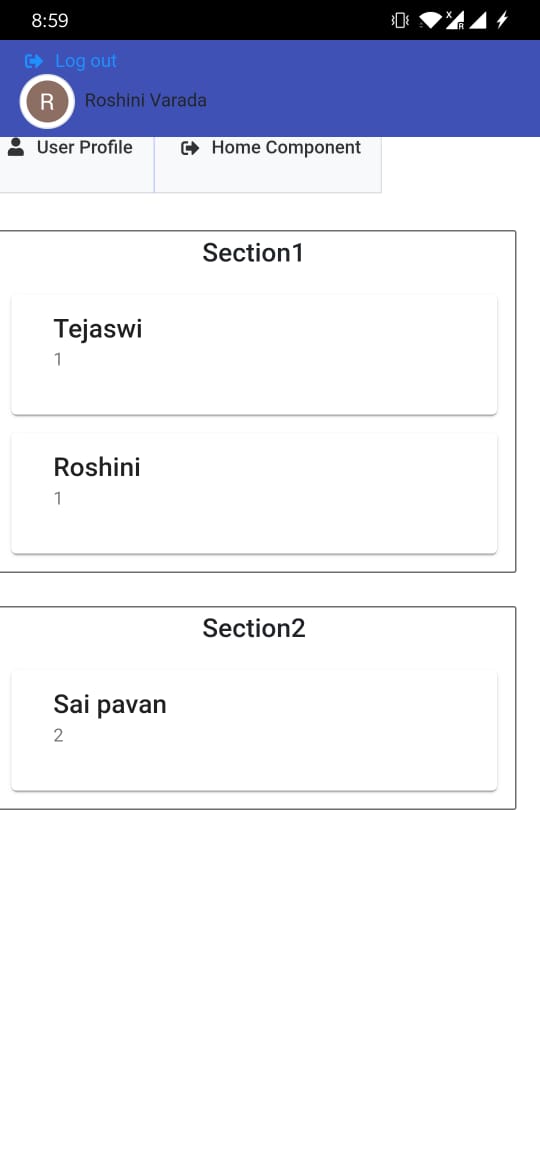
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* We created an apk for this application and we deployed the application in the android mobile,until now user could access the question appear generation and can edit his/her profile and our UI is user friendly.
* The following images are the images of application running in android phone, the following are how user profiles looks in the mobile phone.

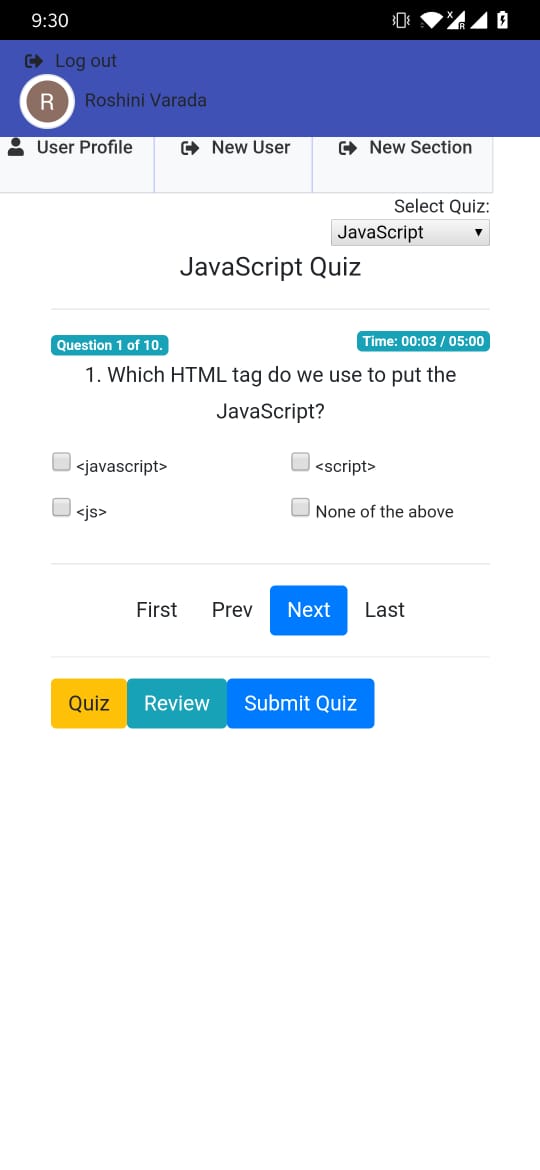


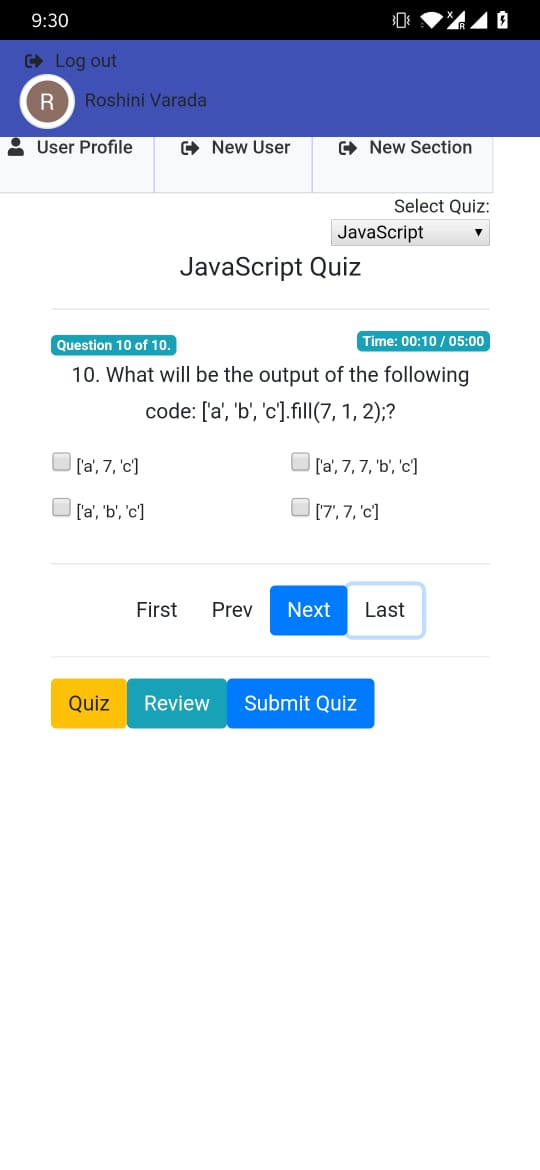


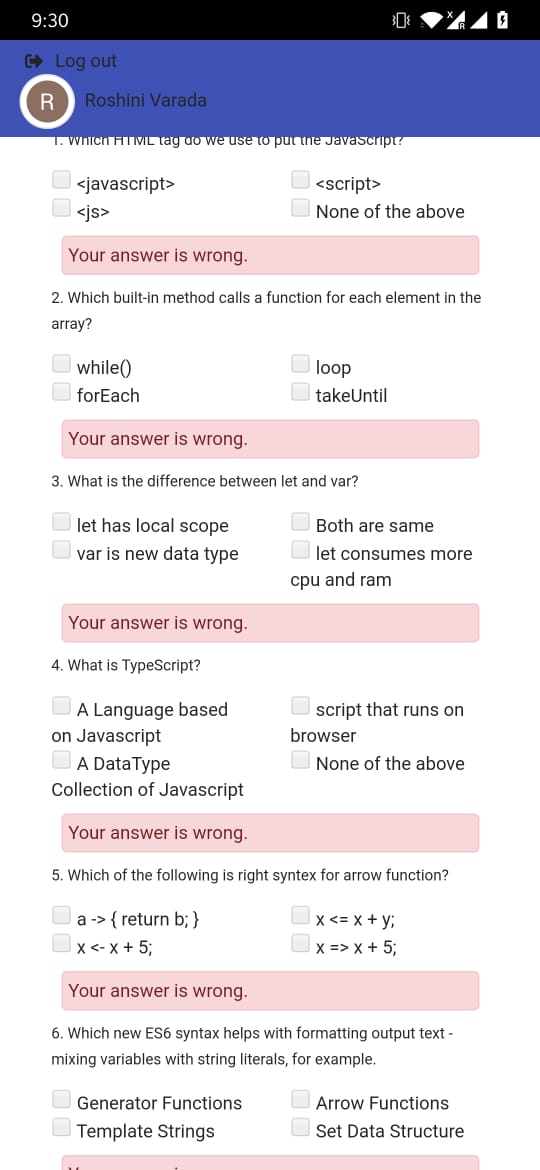
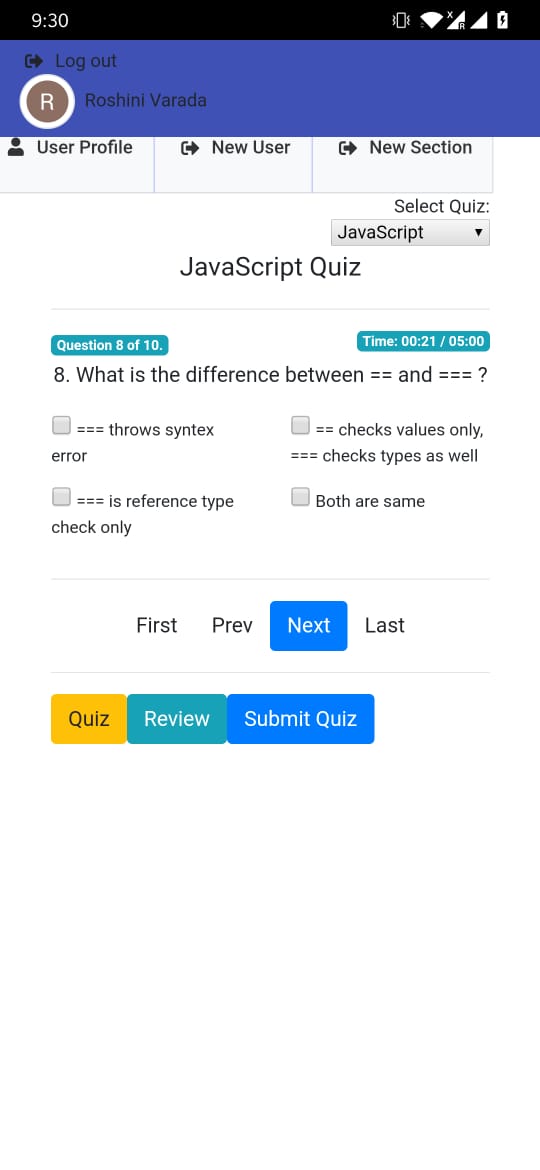


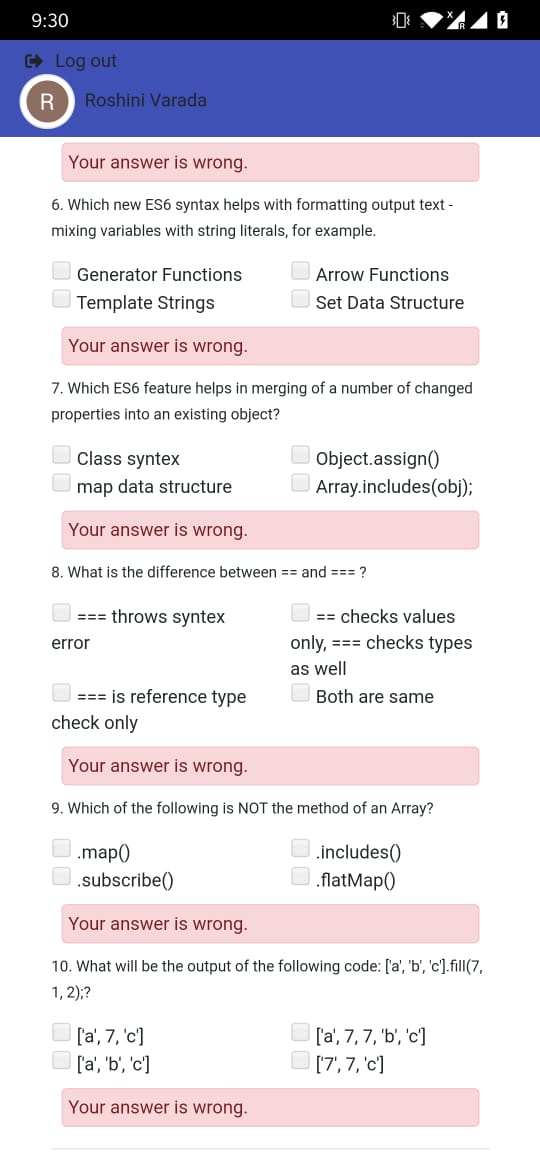


* The following images represent how the quiz is carried out in mobile application.

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* We are creating UI as it is useful for the students and other users track their activities in the form charts and they can also view their course work in the user dashboard.
* First We used mongo DB to analyse and store the data and did python programming to attach the data into the application
* To create UI,We used material designing for that we used material 8 and angular 9.
* To generate the apk and to deploy the application into the android mobile we used cordova.

**Project Management:**

**Implementation status report:**

* We scraped data from a website regarding certain questions and created a database using python and we hosted that data on S3 bucket and called the data into the application.
* We generated an apk and deployed the application onto android phones and we did run the application in the android mobile.
* We did the entire front end for the application using angular 9 ,this is to connect the data scraped and the application.
* We created a good UI to view the user profiles and application dashboard and user status and educational data regarding users.
* Upto 60% of the project is completed in this increment.

**Responsibilities:**

App development and apk creation: roshini varada.

API and services and database creation: vattem sai pavan

UI: Tejaswi guturu.

UML diagrams and documentation: karishma yallanki.

**Time taken:**

* One and half day for planning.
* 3 days to generate data scraping and app development and including services and apk generation and deploying onto mobile phone.
* 1 day for UI.
* 1 day to design UML diagrams and write a report.

**References:**

<https://cordova.apache.org/docs/en/latest/guide/cli/>

<https://docs.mongodb.com/guides/server/introduction/>