DEVSOC APP DEVELOPMENT PROJECT REPORT

PROJECT NAME: Book Sharing App(*DigiShare*)

LINK FOR THE GITHUB REPOSITORY:

https://github.com/sumedha-panja/DigiShare/tree/master

TEAM MEMBERS:

1.Lavkush Sharma
2.Niharika Sathish
3.Sumedha Panja

SOFTWARE/SERVICES USED IN THE PROJECT:

1.Android Studio 4.2
2.Firebase

- Firebase Authentication
  (For signin/signup using email+password **and** Google Sign In)
- Firestore(For storing and displaying book description)
- Firebase Cloud Storage(For storing the e-book added by the user in pdf format)

3.Adobe XD(For Designing App icon and UI)

LANGUAGE USED FOR CODING: Java

ABOUT DIGISHARE:

Digishare has the following features:

- Signin/Signup option using email+password or by using Google Sign In(Using firebase authentication).
- Add a book feature-(User is expected to enter the book description(Book Name,Author,Number of Pages,Genre,Description).
- Speech to Text Conversion is made available for entering the Book Description so that the user does not have to go through the cumbersome process of typing the entire book description).
- E-book in pdf format can be added(Browse from the internal storage of your device and upload the same.Cancel option also available if the wrong pdf is uploaded).
- PDF uploaded by the user is stored in Firebase Cloud Storage and its URL is saved along with the book details in the Firestore.
- Visit Store Option-All the books uploaded by the authorized users of the app are displayed together in a Recycler view.
- Sorting Option is made available to sort the books in order of :
    1. Ascending order of book title
    2. Descending order of book title
    3. Academic Genre
    4. Non Academic Genre
- On clicking a particular book, the entire book details are displayed in another activity.
- On clicking the pdf icon a downloadable pdf version of the E-book is stored in your device.

WHAT WE LEARNT IN THIS PROJECT:

Through this project we learnt to make use of Firebase/Firestore and Recycler View. We incorporated a Google Sign-In option which used Firebase Authentication. There is an option of Signing In/Signing Up via email+password as well which is connected to the same database where we can monitor the users of the app.

Adding Books is implemented using Firebase Firestore.We learnt to add some interesting features like the Speech to Text Conversion and adding the E-book in PDF format, using Firestore and Firebase Cloud Storage.

We learnt how to sort items in Recycler view using the amazing querying style of the Firestore.

We made optimal use of what was expected of us (Firebase and Recycler view) and added the Google Sign-In,Speech to Text Conversion pdf download options too.

We learnt a lot in the past 2 weeks through debugging, browsing loads of online resources and helping each other sort out errors, and indeed it was an enriching experience .

CONTRIBUTIONS:

Lavkush Sharma: Created dynamic list using the recycler view for the application. Designed the interface used in the application.

Niharika Sathish: As an alternative to Sign In using email+password, implemented the direct Google Sign in feature using Firebase Authentication, with a Google API Console Project. Ideated App names.

Sumedha Panja: Implemented the Sign In/Sign Up Option using email+password using Firebase authentication.Also implemented the adding book feature,Speech to Text Conversion and uploading/downloading E-book in PDF Format.Contributed towards the UI as well.