ABSTRACT:

Mobile learning as an intersection of Mobile Computing and E-Learning providing resources that can be accessed anywhere has capability in an excellent searching system, rich interaction and full support towards an effective Learning and performance based assessment. In the modern world of mobile technology and their increasing availability and affordability, mobile devices particularly Android platforms play an important role in the field of communication, entertainment and learning. It has greatly changed the functioning of the world, even the learning process.

Our main aim behind this whole project is to exercise a proper way to bring forth all the necessary elements a teacher or a student requires to carry out his job efficiently. Our app named "**learn English**" is an online English learning app will help the users improve their English pronunciation. It can also improve their way of studying.

SOFTWARE REQUIREMENTS:

- JAVA
- ANDROID SDK
- ANDROID STUDIO
- SDK TOOLS

TOOLS AND SERVERS:

- ANDROID STUDIO
- FIREBASE
- AUNTHENTICATION
- REALTIME DATABASE
- GOOGLE PLAY SERVICES

FIRE BASE:

It is used to store data of user such as his email and password i.e. The login activity. We have connected authentication by using email and password. We have used real time data base.
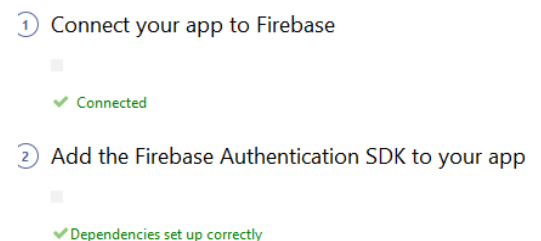
① Connect your app to Firebase

✔ Connected

② Add the Firebase Authentication SDK to your app

✔ Dependencies set up correctly

Figure 1:- Firebase connection

Classes:

- SPLASH
- Welcome
- LoginActitvity
- LIST
- RegisterActivity
- PronunciationmadeeasyActivity
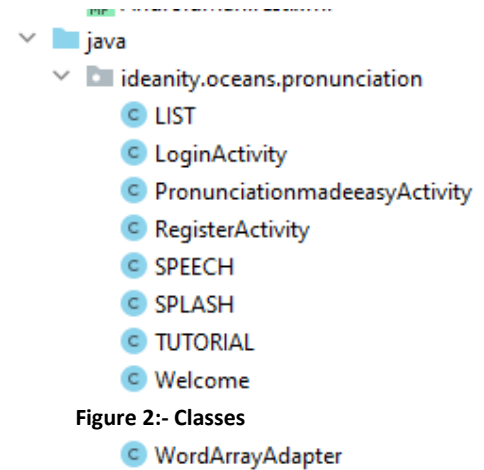- SPEECH
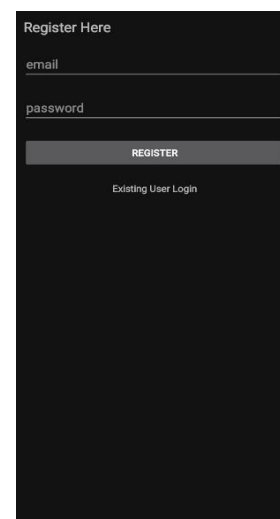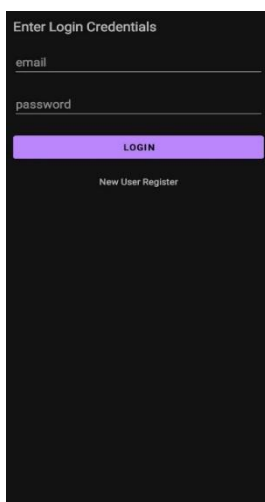- TUTORIAL
- WORD
- WordArrayAdapter

Figure 2:- Classes

FEATURES OF OUR PROJECT:

LOG IN SCREEN:
- Log in screen requires user's email and password, if you are new to the app, you first have to register in order to learn and use this app. Your password must be greater than or equal to 6 characters.
- Make sure the email ID you're entering is not taken already.
- Also make sure you're connected to the internet. Otherwise a network error will occur.

REGISTRATIONSCREEN:
You can register for free by entering correct email and password.After logging in /signing up ,Four buttons will appear on the screen.

These are the main features of our Application:

1.Pronunciation guides: button (id:btnTutorial)

When you click on pronunciation guides button, there is a list of lectures opened. This list of lectures is made up by using list view.

- Lesson1: English Word Pronunciation
- Lesson 2: Word Stress and Syllables
- Lesson 3: Long E sound (meet, see),
- Lesson 4: Short I Sound (sit, hit)
- Lesson 5: UH Sound (put, foot) Lesson 6: OO Sound (moon, blue),
- Lesson 7: Short E sound (pen, bed)
- Lesson 8: Schwa Sound (the, about),
- Lesson 9: UR Sound (turn, learn),
- Lesson 10: OH Sound (four, store),
- Lesson 11: Short A Sound (cat, fat),
- Lesson 12: UH Sound (but, luck)
- Lesson 13: Soft A Sound
- Lesson 14: Long O Sound
- Lesson 15: Long A Sound

Each lesson is created using HTML. Web page is created according to the topic.

2.Homophones: button(id:btnWord):

- Homophones are two or more words having the same pronunciation but different meanings, origins, or spelling, for example new and knew.
- This portion is very helpful for the students as this will remove their confusions.
- The given homophones are from A to D
- On clicking homophones button, Homophones from A to D appear.
- We have also used speaker icon before every homophones words by using **imageView.setImageResource(R.drawable.speaker);**
- By clicking on speaker icon, you can hear voice of the words for better understanding using media Player.
    1. **Practice words to speak:**
        It is basically a text to speech converter. It has:
        - **speak button**-This will convert the text into speech.
        - **clear button**-This will clear the text written on the board.
        - **back button**-by clicking back button, the previous activity will be opened.

Exit: by clicking on exit ,it will ask if you really want to exit and leave.

CONTRIBUTION:

Fatima: web page(web page kn si activity ma tha) ,splash, firebase
Barira: text into speech converter aur Baki name yad nhi arahy
Sameen: xml layouts
Rooman: welcome , registration, log in

FLOW OF OUR PROJECT

app

Open

FIRST

WELCOME/HOME PAGE

IF YOU ARE NEW TO

LOGIN SCREEN

REGISTER ATION

MAIN ACTIVITY

Practice words to speak

Pronuncia tion guides

homophones

EXIT