1. Introduction

As the technology is growing in 21st century we need to adopt as well. Nowadays it is problem to share the notes between students and teacher. Teacher can share the PDf file to the student using this app. Teacher can upload a PDF file using a unique code. Once the PDF file is uploaded students can login and download the app using that unique code. Once student downloads the file text to speed conversion is happening. The text on the PDF is converted to voice.

This project focused on how to save time on sharing the file and instead of reading this app will speak the text so that it saves the student time instead of studying. If a student needs to revise the concept after studying this app helps them very well.

1.1Problem Statement

1) Sharing the file through online
    - Sharing the file is very problematic some app requires to send file to unique users instead of all the users or need to create a group bu adding all the users to the group
    - It makes all the registered student to be able to download the file using the unique code.
2) Text to speech
    - Students are very lazy to revise the studied concepts of very lazy to learn first time itself
    - They want others to read for them so this app convert text to speech so that it makes them to study and understand the concept
    - Some students do not memorize the concept they memorize the text.

1.2 Objectives

The objectives of developing this system were:

1)To reduce the time in sharing the file of creating a group for sharing file

2)To reduce student time in revising and to avoid making student memorizing the only the text and make them understand the concepts

2. Functional Requirements

1. User Registration:

User supposed to register to DigiClass by providing name, email and valid password. User also need to specify teacher type user or student type user while registering.

2. Uploading PDf file:

User can upload the file by providing the file name, small description about the file and providing a unique code to identify the file. DigiClass provides option to uploading the file from the internal storage.

3. Downloading the PDF file:

User can provide unique identification code and then download the file.

4. Text to Speech:

Once the File is downloaded and then the content of the PDF File is used to convert to audio. All the contents inside PDF file is converted to audio by extracting page by page.

3. Module Descriptions

The main function is to Share the file and convert the text to speech

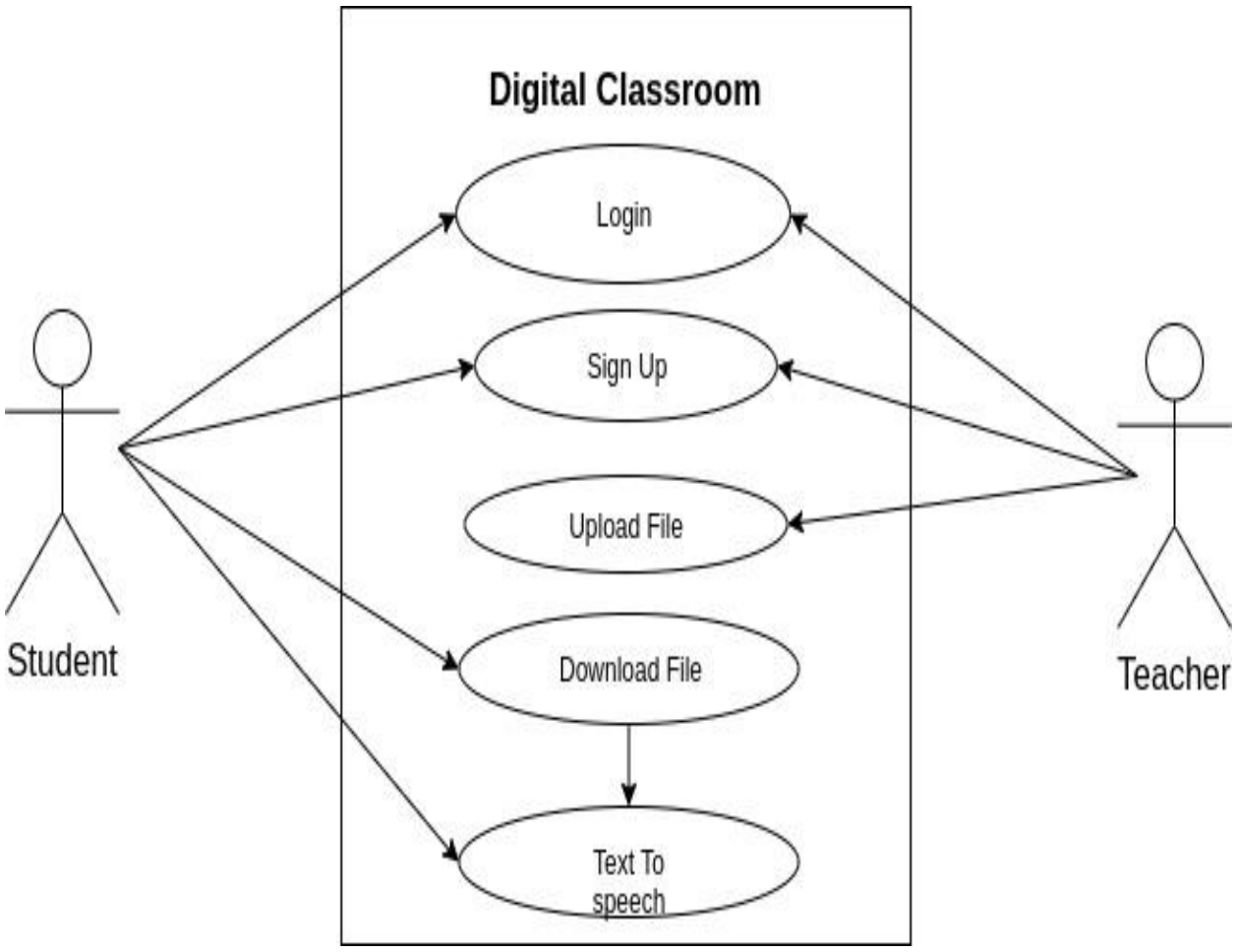
File Sharing

1. Teacher will be able to upload the file using unique code
2. Student can download the file using the unique code

Text to Speech

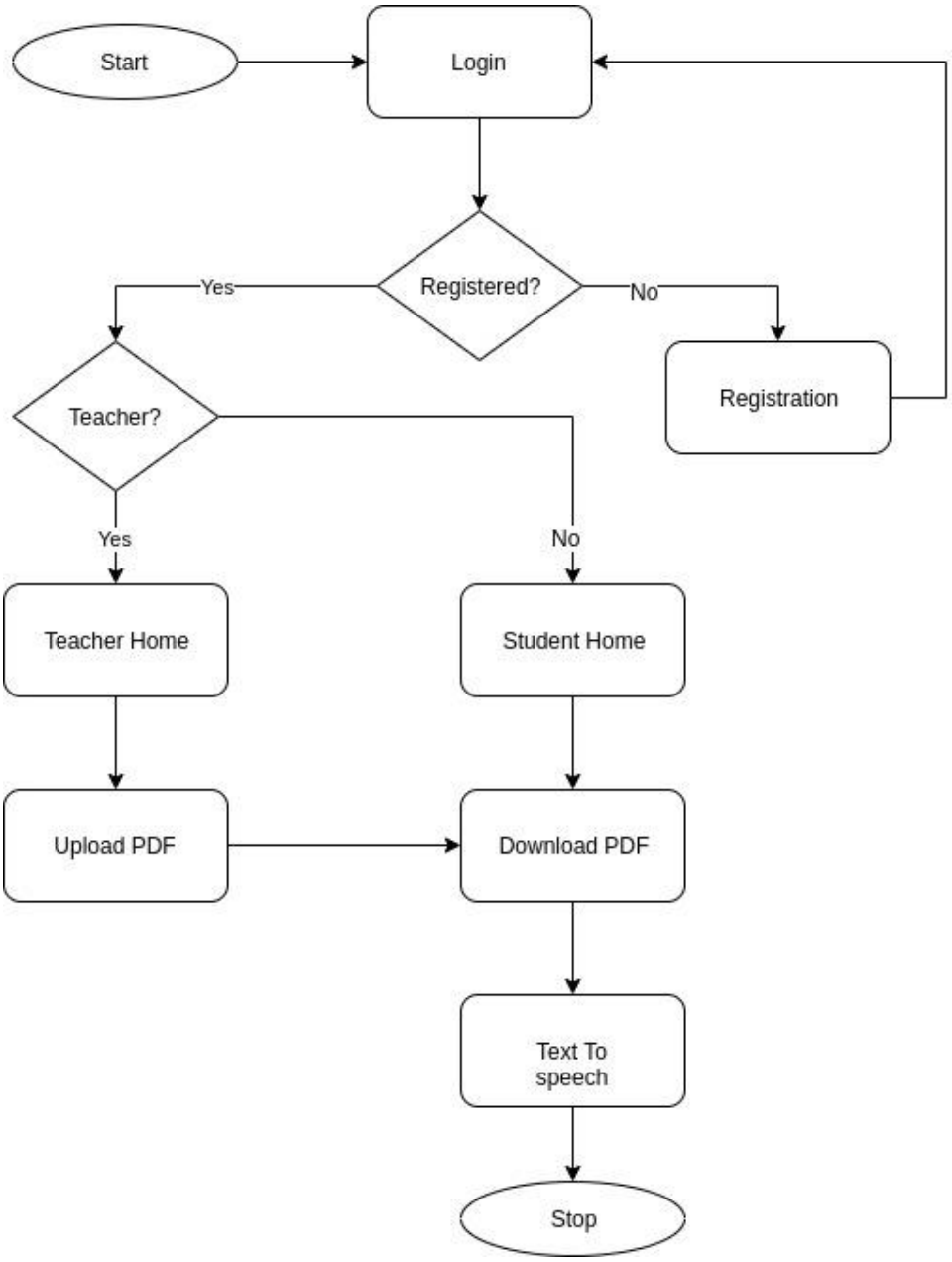
1. Once student downloads the file and text to speech is converted
2. The text inside the PDF is converted

4. Design Model



Use Case Diagram

Figure 1.1



FLOW DIAGRAM

Figure 1.2

5. Implementation Code snippets

Activity_file_upload.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".FileUpload">

    <ScrollView
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:gravity="center"
            android:textAlignment="center">

            <Button
                android:id="@+id/button5"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginTop="10dp"
                android:layout_marginRight="10dp"
                android:layout_marginBottom="0dp"
                android:onClick="chooseFile"
                android:text="Choose File"
                android:textAlignment="center" />

            <EditText
                android:id="@+id/editText7"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="10dp"
                android:layout_marginTop="10dp"
                android:layout_marginRight="10dp"
                android:layout_marginBottom="0dp"
                android:ems="10"
                android:hint="@string/fileName"
                android:inputType="textPersonName"
                android:textAlignment="center" />

            <Button
                android:id="@+id/button6"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
```

```
            android:layout_marginLeft="10dp"
            android:layout_marginTop="10dp"
            android:layout_marginRight="10dp"
            android:layout_marginBottom="0dp"
            android:onClick="uploadFile"
            android:text="Upload" />

    </LinearLayout>
  </ScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

FileUpload.java

```
package com.example.digitalclass;


import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;


import android.Manifest;

import android.app.ProgressDialog;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;


import com.google.android.gms.tasks.OnFailureListener;

import com.google.android.gms.tasks.OnSuccessListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.firestore.DocumentReference;

import com.google.firebase.firestore.FirebaseFirestore;

import com.google.firebase.storage.FirebaseStorage;

import com.google.firebase.storage.OnProgressListener;
```

```
import com.google.firebase.storage.StorageReference;
import com.google.firebase.storage.UploadTask;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public class FileUpload extends AppCompatActivity {

    private Uri pdfUri = null;
    private FirebaseStorage storage;
    private EditText ed7;
    private FirebaseFirestore db;
    private StorageReference mStorageRef;
    private Intent intent;
    private ProgressDialog progressDialog;



    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_file_upload);
        storage = FirebaseStorage.getInstance();
        ed7 = findViewById(R.id.editText7);
        db = FirebaseFirestore.getInstance();
        mStorageRef = FirebaseStorage.getInstance().getReference();
        intent = new Intent(this, MainActivity.class);
    }

    public void uploadFile(View view) {
        if (pdfUri != null) {
            //HI there
            //String fileName = System.currentTimeMillis()+"";
            progressDialog = new ProgressDialog(this);
            progressDialog.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);
```

```
progressDialog.setTitle("Uploading File...");
progressDialog.setProgress(0);
progressDialog.show();

Uri file = pdfUri;
String fileName = System.currentTimeMillis() + "";
StorageReference riversRef = mStorageRef.child("pdf/" + fileName);

riversRef.putFile(file)
      .addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {
         @Override
         public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {
            String downloadUrl;
            Task<Uri> downloadUrl1 = taskSnapshot.getMetadata().getReference().getDownloadUrl();
            downloadUrl1.addOnSuccessListener(new OnSuccessListener<Uri>() {
               @Override
               public void onSuccess(Uri uri) {
                  String downloadUrl = uri.toString();
                  Map<String, Object> fileURL1 = new HashMap<>();
                  fileURL1.put("url", downloadUrl);

                  db.collection("filesURL")
                        .document(ed7.getText().toString())
                        .set(fileURL1)
                        .addOnSuccessListener(new OnSuccessListener<Void>() {
                           @Override
                           public void onSuccess(Void aVoid) {
                              progressDialog.hide();
                              startActivity(intent);
                           }
                        })
                        .addOnFailureListener(new OnFailureListener() {
                           @Override
                           public void onFailure(@NonNull Exception e) {
                              //Log.w(TAG, "Error adding document", e);
```

```
                                Toast.makeText(FileUpload.this, "Failed on storing file in database", Toast.LENGTH_SHORT).show();
                            }
                        });
                    }
                });
            }
        })
        .addOnFailureListener(new OnFailureListener() {
            @Override
            public void onFailure(@NonNull Exception exception) {
            }
        })
        .addOnProgressListener(new OnProgressListener<UploadTask.TaskSnapshot>() {
            @Override
            public void onProgress(UploadTask.TaskSnapshot taskSnapshot) {
                int currentProgress = (int) (100 * taskSnapshot.getBytesTransferred() / taskSnapshot.getTotalByteCount());
                progressDialog.setProgress(currentProgress);
            }
        });
    } else {
        Toast.makeText(this, "Please choose the file and then upload", Toast.LENGTH_SHORT).show();
    }
}


public void chooseFile(View view) {
    if (ContextCompat.checkSelfPermission(FileUpload.this, Manifest.permission.READ_EXTERNAL_STORAGE) ==
PackageManager.PERMISSION_GRANTED) {
        selectPDF();
    } else {
        ActivityCompat.requestPermissions(FileUpload.this, new String[]{Manifest.permission.READ_EXTERNAL_STORAGE}, 9);
    }
}
@Override
public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull int[] grantResults) {
    //super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if (requestCode == 9 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
```

```
            selectPDF();
        } else {
            Toast.makeText(this, "Read Permission should be granted inorder to upload File", Toast.LENGTH_SHORT).show();
        }
    }

    private void selectPDF() {
        Intent intent = new Intent();
        intent.setType("application/pdf");
        intent.setAction(Intent.ACTION_GET_CONTENT);
        startActivityForResult(intent, 86);
    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (requestCode == 86 && resultCode == RESULT_OK && data != null) {
            pdfUri = data.getData();
            Toast.makeText(this, "File is choosen", Toast.LENGTH_SHORT).show();
            //25 Min
        } else {
            Toast.makeText(this, "Please select a File", Toast.LENGTH_SHORT).show();
        }
    }
}
```

PDF_Reading.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".test">

    <com.github.barteksc.pdfviewer.PDFView
        android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"

    android:id="@+id/testPDF"

    ></com.github.barteksc.pdfviewer.PDFView>



</androidx.con
```

PDF_Text_To_Speech_Code.java

```
import java.util.Locale;
import android.app.Activity;
import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends Activity implements
    TextToSpeech.OnInitListener {

  /** Called when the activity is first created. */
  private TextToSpeech tts;
  private Button btnSpeak;
  private EditText txtText;

  @Override
  public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    tts = new TextToSpeech(this, this);

    btnSpeak = (Button) findViewById(R.id.btnSpeak);

    txtText = (EditText) findViewById(R.id.txtText);

    // button on click event
    btnSpeak.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View arg0) {
        speakOut();
      }

    });
  }

  @Override
  public void onDestroy() {
    // Don't forget to shutdown tts!
    if (tts != null) {
      tts.stop();
      tts.shutdown();
    }
    super.onDestroy();
  }

  @Override
  public void onInit(int status) {

    if (status == TextToSpeech.SUCCESS) {

      int result = tts.setLanguage(Locale.US);
```

```
            if (result == TextToSpeech.LANG_MISSING_DATA
                    || result == TextToSpeech.LANG_NOT_SUPPORTED) {
                Log.e("TTS", "This Language is not supported");
            } else {
                btnSpeak.setEnabled(true);
                speakOut();
            }

        } else {
            Log.e("TTS", "Initilization Failed!");
        }
    }

    private void speakOut() {
        CharSequence text = txtText.getText();
        tts.speak(text, TextToSpeech.QUEUE_FLUSH, null,"id1");
    }
}
```

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        android:fillViewport="true"
        app:layout_constraintTop_toTopOf="parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:padding="20dp">

            <TextView
                android:id="@+id/textView8"
                android:layout_width="match_parent"
                android:layout_height="52dp"

                android:gravity="center"
                android:text="Your File Details"
                android:textAlignment="center"
                android:fontFamily="sans-serif-medium"
                android:textColor="@android:color/background_dark"
                android:textSize="32dp"
                android:textStyle="bold" />

            <ListView
                android:id="@+id/listView"
                android:layout_width="match_parent"
                android:layout_height="match_parent" />
        </LinearLayout>
    </ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.digitalclass;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;


import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.QueryDocumentSnapshot;
import com.google.firebase.firestore.QuerySnapshot;

import java.util.ArrayList;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    private ListView listView;
    private FirebaseFirestore db;
    private FirebaseAuth mAuth;
    private ArrayAdapter <String> adapter;
    private List<String> list;
    private ProgressDialog progressDialog;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        listView = findViewById(R.id.listView);
        db = FirebaseFirestore.getInstance();
        mAuth = FirebaseAuth.getInstance();
        progressDialog = new ProgressDialog(this);
        progressDialog.setMessage("Loading Your file details.....");
        progressDialog.show();
        list = new ArrayList<>();
        adapter = new ArrayAdapter<String>(this,R.layout.pdf_list,R.id.pdfInfo,list);
        db.collection("filesURL")
                .whereEqualTo("id",mAuth.getUid())
                .get()
                .addOnCompleteListener(new OnCompleteListener<QuerySnapshot>() {
                    @Override
                    public void onComplete(@NonNull Task<QuerySnapshot> task) {
                        if (task.isSuccessful()){
                            for (QueryDocumentSnapshot document : task.getResult()) {
                                //Log.d(TAG, document.getId() + " => " + document.getData());
                                //PdfContents pdfContents = new
PdfContents(document.getString("name"),document.getString("description"),document.getString("url"));
                                list.add("File name: "+document.getString("name")+"\nFile Description: "+document.getString("description") +"\nFile code:
"+document.getId());
                            }
                            listView.setAdapter(adapter);

                        }else{
                            Toast.makeText(MainActivity.this, "An error occured", Toast.LENGTH_SHORT).show();

                        }
```

```
                progressDialog.hide();
            }
        });
    }


    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId()) {
            case R.id.item2: {
                Toast.makeText(this, "Already in the same page", Toast.LENGTH_SHORT).show();
                return true;
            }
            case R.id.item3: {
                Intent i = new Intent(this, PDFReadings.class);
                startActivity(i);
                return true;
            }
            case R.id.item4: {

                mAuth.signOut();
                Intent i = new Intent(this, LoginPage.class);
                startActivity(i);
                return true;
            }
            case R.id.item5:{
                Intent i = new Intent(this,MainActivity.class);
                startActivity(i);
                return true;
            }
        }
        return super.onOptionsItemSelected(item);
    }

}
```

Registration.java

```
package com.example.digitalclass;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.util.Patterns;
import android.view.View;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.FirebaseFirestore;

import java.util.HashMap;
```

```
import java.util.Map;
import java.util.regex.Pattern;

public class RegistrationPage extends AppCompatActivity {
    private EditText name, email, pass,rePass, mobile;
    private Intent loginPage;
    private ProgressDialog progressDialog;
    private FirebaseAuth mAuth;

    private static final Pattern PASSWORD_PATTERN =
            Pattern.compile("^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[@#$%^&+=!])(?=\\S+$).{5,}$");

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registration_page);
        mAuth = FirebaseAuth.getInstance();
        name = findViewById(R.id.editText);
        email = findViewById(R.id.editText1);
        pass = findViewById(R.id.editText2);
        rePass = findViewById(R.id.editText3);
        mobile = findViewById(R.id.editText4);
        progressDialog = new ProgressDialog(this);
        loginPage = new Intent(this, LoginPage.class);
    }

    public boolean isValidateFields(){
        //Checking Empty

        String nameVar,emailVar,passVar,rePassVar,mobileVar;
        nameVar = name.getText().toString();
        emailVar = email.getText().toString();
        passVar = pass.getText().toString();
        rePassVar = rePass.getText().toString();
        mobileVar = mobile.getText().toString();

        if (nameVar.isEmpty()){
            name.setError("Name Field cannot be empty");
            return false;
        }
        if (emailVar.isEmpty()){
            email.setError("Email Field cannot be empty");
            return false;
        }
        if (passVar.isEmpty()){
            pass.setError("Password Field cannot be empty");
            return false;
        }
        if (rePassVar.isEmpty()){
            rePass.setError("Re-type the password");
            return false;
        }
        if (mobileVar.isEmpty()){
            mobile.setError("Mobile Number should be provided");
            return false;
        }
        if (!Patterns.EMAIL_ADDRESS.matcher(emailVar).matches()){
            email.setError("Email is invalid");
            return false;
        }

        if (!PASSWORD_PATTERN.matcher(passVar).matches()){
            pass.setError("Password is not strong, Enter atleast 1 Upper, 1 Lower and 1 special character");
            return false;
        }

        if (!passVar.equals(rePassVar)){
            rePass.setError("Retype password is not same");
            return false;
        }
```

```
    if (mobile.length() < 10){
        mobile.setError("Mobile number should have 10 digits");
        return false;
    }



    return true;
}

public void registerUser(View view) {

    if (!isValidateFields()){
        return;
    }


    progressDialog.setMessage("Registering");
    progressDialog.show();

    mAuth.createUserWithEmailAndPassword(email.getText().toString(), pass.getText().toString())
            .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {
                @Override
                public void onComplete(@NonNull Task<AuthResult> task) {
                    if (task.isSuccessful()) {
                        uploadData(FirebaseAuth.getInstance().getCurrentUser().getUid());
                    } else {
                        // If sign in fails, display a message to the user.
                        Toast.makeText(RegistrationPage.this, "Email already exists.", Toast.LENGTH_SHORT).show();
                        progressDialog.hide();
                    }
                }
            });
}

public void uploadData(final String userID) {

    mAuth= FirebaseAuth.getInstance();
    mAuth.signInWithEmailAndPassword(email.getText().toString(), pass.getText().toString())
            .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {
                @Override
                public void onComplete(@NonNull Task<AuthResult> task) {
                    if (task.isSuccessful()){
                        FirebaseFirestore db = FirebaseFirestore.getInstance();

                        Map<String, Object> user1 = new HashMap<>();
                        user1.put("name", name.getText().toString());
                        user1.put("mobile", mobile.getText().toString());
                        RadioButton teacher,student;
                        teacher = findViewById(R.id.radioButton);
                        student = findViewById(R.id.radioButton2);
                        if (teacher.isChecked()){
                            user1.put("type","teacher");
                        }else if (student.isChecked()){
                            user1.put("type","student");
                        }


                        db.collection("person").document(userID).set(user1)
                                .addOnSuccessListener(new OnSuccessListener<Void>() {
                                    @Override
                                    public void onSuccess(Void aVoid) {

                                        Toast.makeText(RegistrationPage.this, "SuccessFully Registered", Toast.LENGTH_SHORT).show();
                                        progressDialog.hide();
                                        mAuth.signOut();
                                        startActivity(loginPage);
                                    }
                                })
```

```
                        .addOnFailureListener(new OnFailureListener() {
                            @Override
                            public void onFailure(@NonNull Exception e) {
                                Toast.makeText(RegistrationPage.this, e.toString(), Toast.LENGTH_SHORT).show();
                            }
                        });

                }
            }
        });

    }

}
```

activity_registration_page.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".RegistrationPage">

    <ScrollView
        android:layout_width="0dp"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:orientation="vertical">

            <TextView
                android:id="@+id/textView5"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="20dp"
                android:layout_marginTop="20dp"
                android:layout_marginRight="20dp"
                android:layout_marginBottom="20dp"
                android:text="@string/Registration"
                android:fontFamily="sans-serif-medium"
                android:textColor="@android:color/background_dark"
                android:textSize="32dp"
                android:textStyle="bold"
                android:textAlignment="center"

                />

            <com.google.android.material.textfield.TextInputLayout

                style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginLeft="20dp"
                android:layout_marginRight="20dp"
                android:layout_marginBottom="20dp"

                >
```

```
    <EditText

        android:id="@+id/editText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="@string/fullName"
        android:inputType="textPersonName" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginBottom="20dp">

    <EditText
        android:id="@+id/editText1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="@string/regEmail"
        android:inputType="textPersonName" />

</com.google.android.material.textfield.TextInputLayout>



<RadioGroup
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="horizontal"
    android:padding="10dp">

    <RadioButton
        android:id="@+id/radioButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="20dp"
        android:text="Teacher" />

    <RadioButton
        android:id="@+id/radioButton2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:text="Student" />
</RadioGroup>

<com.google.android.material.textfield.TextInputLayout
    style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginBottom="20dp"
    app:passwordToggleEnabled="true">

    <EditText
        android:id="@+id/editText2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="@string/regPass"
        android:inputType="textPassword" />
```

```
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
   style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:layout_marginLeft="20dp"
   android:layout_marginRight="20dp"
   android:layout_marginBottom="20dp"
   app:passwordToggleEnabled="true">

   <EditText
      android:id="@+id/editText3"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"

      android:ems="10"
      android:hint="@string/regRePass"
      android:inputType="textPassword" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
   style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:layout_marginLeft="20dp"
   android:layout_marginRight="20dp"
   android:layout_marginBottom="20dp"
   app:counterEnabled="true"
   app:counterMaxLength="10">

   <EditText
      android:id="@+id/editText4"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:ems="10"
      android:hint="@string/regMobile"
      android:inputType="number"
      android:maxLength="10" />

</com.google.android.material.textfield.TextInputLayout>

<LinearLayout
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="horizontal">

   <Button
      android:id="@+id/button3"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_marginLeft="20dp"
      android:layout_marginTop="0dp"
      android:layout_marginRight="20dp"
      android:layout_marginBottom="10dp"
      android:layout_weight="1"
      android:background="@drawable/button_bad_effect"
      android:text="Cancel"
      android:textColor="@android:color/background_dark" />

   <Button
      android:id="@+id/button4"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_marginLeft="20dp"
      android:layout_marginTop="0dp"
      android:layout_marginRight="20dp"
      android:layout_marginBottom="10dp"
      android:layout_weight="1"
```

```
            android:background="@drawable/button_good_effect"
            android:onClick="registerUser"
            android:text="Register"
            android:textColor="@android:color/background_dark" />
        </LinearLayout>
    </LinearLayout>
</ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

6.User Interfaces/Screenshots with Descriptions

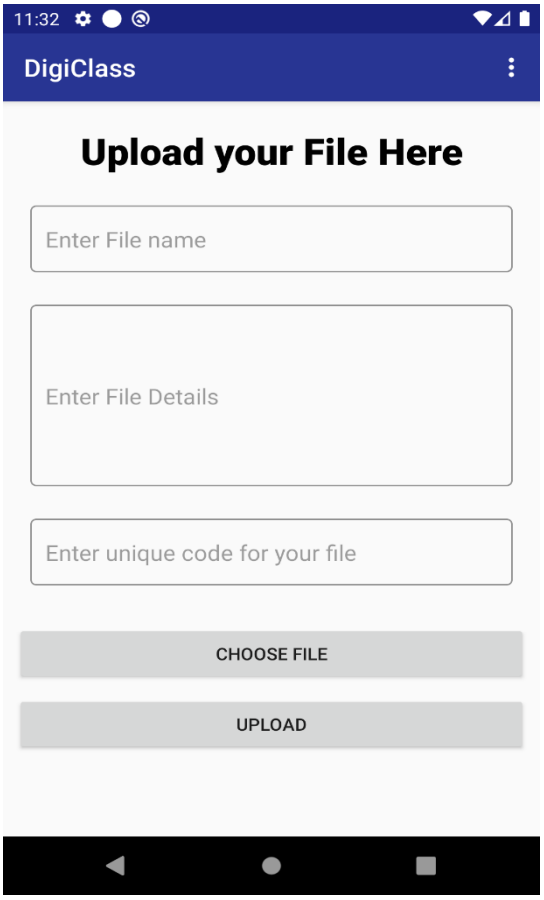


Figure 1.3

Figure 1.4

Figure 1.3 shows the activity of user uploading the file. Here user needs to enter the file name, file description and unique code to identify the file.

Figure 1.4 is the activity where user can download the file providing unique identification code of the file. Once file is downloaded text to speech can be done by clinking on the play button on the bottom right corner.

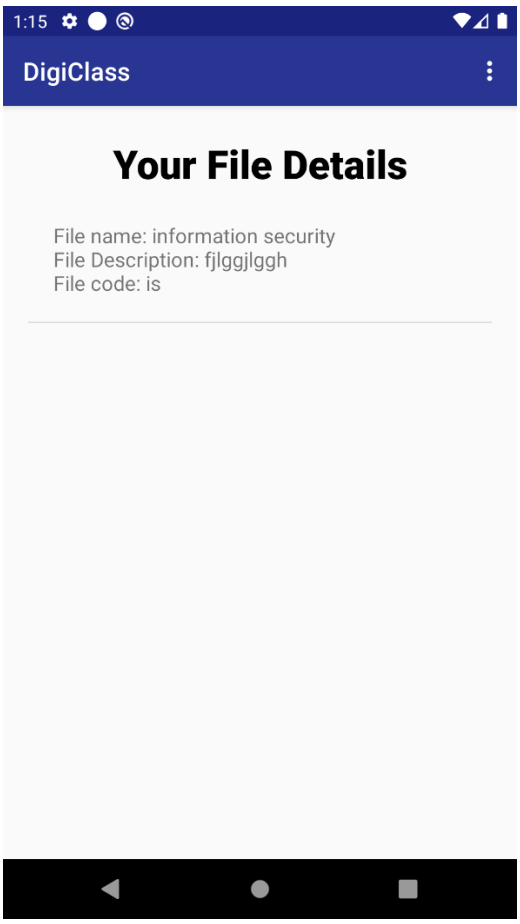


Figure 1.5

Figure 1.5 is the activity where all the files which is uploaded by the logged in user is showed with the file name, file description and the unique code.

7. Conclusion

In conclusion, this system is developed to share the file inorder to save time. Text to speech is to save student time in revising the concept and to make the student memorize the concept instead of memorizing only the text

8. Scope for Future Enhancement

Finally this application has room for the enhancement for the future. System should be able to share video, audio file. Playback, rewinding the audio should be added as a feature. Download URL for the uploaded file should be provided to the user.

9.Bibliography

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