REPORT OF MINI PROJECT

On

Notes Application

Department of Computer Engineering and Application

GLA University,

Mathura - 281406

Submitted by:	Supervised By:
Vaibhav Pareek	Mr.Neeraj Khanna
(171500367)	(Technical Trainer)

Branch/Sec:

B.tech-CSE/Sec-C

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ABSTRACT

In recent times we have seen tremendous development in smart devices and services. The Internet is also becoming cheaper day by day and the devices are available to the hands of each and every person at very cheap prices. This has increased the demand for the devices to be used for different purposes i.e. playing games, listening to music, taking notes, etc. When we come on the topic of taking notes, there are many problems in real life and keeping your notes in an ordered and maintainable manner shouldn't be one of them. Being a student, and observing countless peers to go through the same hardship of losing notes, and as a tech savvy person I had to do something on how to solve these problems using technology. In this paper, I am focusing on problems faced by an individual when they have to take down an important note or to go through a list of items such as a grocery list. I have developed an android application "My Notes" through which we can solve all the major problems faced.

My Notes - Application enhances quality of the notes prepared and keeps it where they can be easy to be found by students.

INTRODUCTION

1.1-Genaral Introduction:

Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.Android's source code has been used as the basis of different ecosystems, most notably that of Google which is associated with a suite of proprietary software called Google Mobile Services.

My Notes is an Android based application that will enable the user to take notes at will and to maintain them effectively. Although there are a lot of notes app in the market, very few give an option pf a checklist for the user's ease.

The project after completion will ensure a new sighted change and will help today's generation with the aim of keeping their private and important documents and notes at their disposal.

The benefits of this project will definitely be a helping hand to all the students who have a habit of writing it on hands and small bits of paper.

The conclusion of the project is to decrease human efforts and to save the wastage of paper caused because of this.

1.2-Area of Computer Science:

The computer has brought revolution in every sphere of human life, whether it is business, education field, governance, medical science etc. The computer has reduced the human work load, businesses are going global and everything is available at the click of mouse. Most of the customers have to go to market to buy the building materials which is a very time-consuming task. Different sellers have different rates of the product they are selling. So, the customer has to go different shops to get the products at a very good rate.

1.3-Hardware and Software Requirement:

Software Specification:

- **Technology Implemented** : Android
- **Language Used** : Java
- **Database** : GCP Firebase
- **User Interface Design** : Java

Hardware Requirements:

- **Processor**   : Core i7
- **Operating System**   : Windows, Linux
- **RAM**   : 8GB
- **Hard disk**   : 1 TB, Graphic Card
- **Display**   : Laptop Screen

Problem Definition:

Most of the people nowadays, in order to manage their busy schedule, find it easier to take down notes in their mobile devices as it is always available in their hands or is lying nearby, whereas it is quite difficult to take down notes the traditional way of writing them down on paper using pen. The paper that is wasted can also be utilized for other important work. So, I am trying to make an online platform which provides these types of features to an individual.

Objectives:

The objectives of the project are as follows:
➢ To develop an application for the management of notes and checklist at user's disposal.

➢ To develop an application that has a good management of data along with integrity and minimizing redundancy.

➢ To develop an application system that will be user friendly in all possible ways.

Methodology

We are using android java as the frontend with the backend made using GCP Firebase. To see what are the previous notes of a user and how effectively they are being maintained. App will display a collection of notes that are available on the database and can be sorted also. The modules used in this app are listed as follows:
1. Home
2. Previous Notes
3. Add Notes
4. Text Note
5. Checklist
6. Delete Note

Implementation Details

The implementation is divided in two parts:

1. <u>Frontend Development:</u>
   The technology used for developing frontend is Android and Java. User's data will be maintained and will be managed efficiently. The data is fetched from the cloud firebase and displayed it on android application .
   The modules used in this app are listed as follows:
   1. Home
   2. Previous Notes
   3. Add Notes
   4. Text Note
   5. Checklist
   6. Delete Note

2. <u>Backend Development:</u>
   The technology used for developing backend is GCP Firebase. It is a cloud database which stores all the data of the user and manages and accesses them efficiently in a way that is user friendly and interactive. Firebase and GCP share 3 products:
   1. Cloud FireStore
   2. Cloud Functions
   3. Cloud Storage
   These are the same products that exist in cloud, simply exposed for client-side developers via Firebase.

Progress till date and Remaining work

Till now I have worked on the following aspects of the project which has been completed till date. This includes:
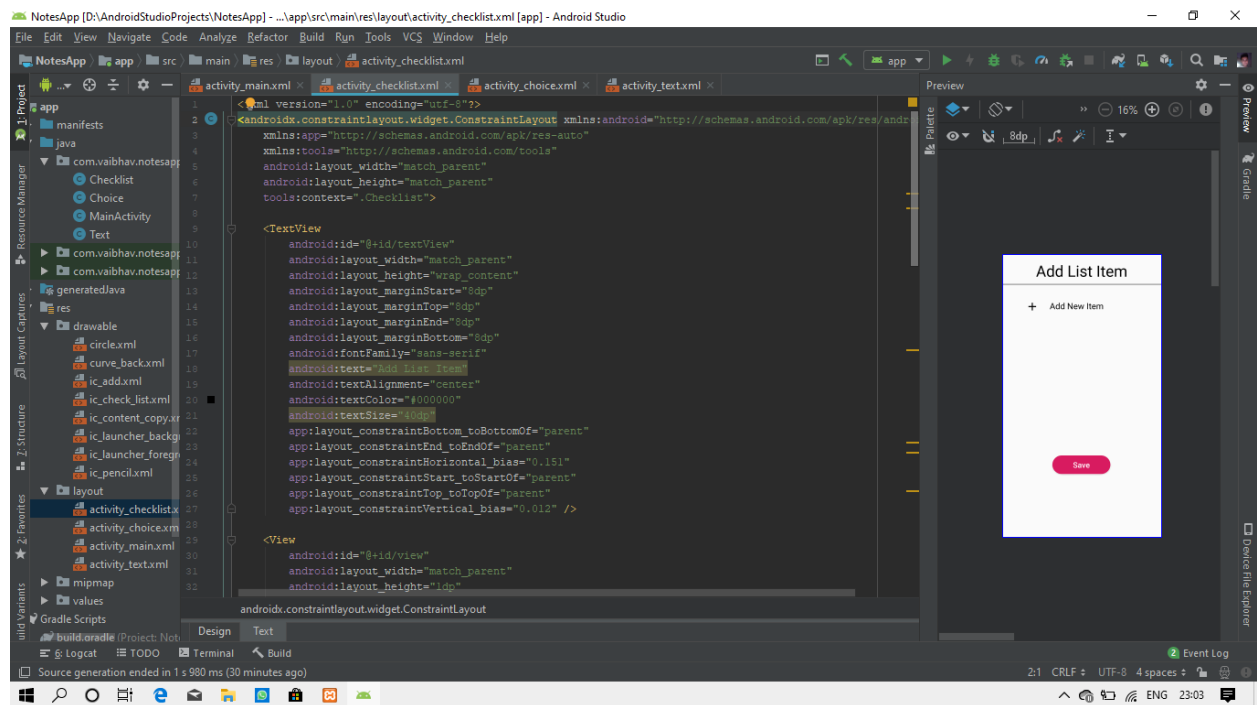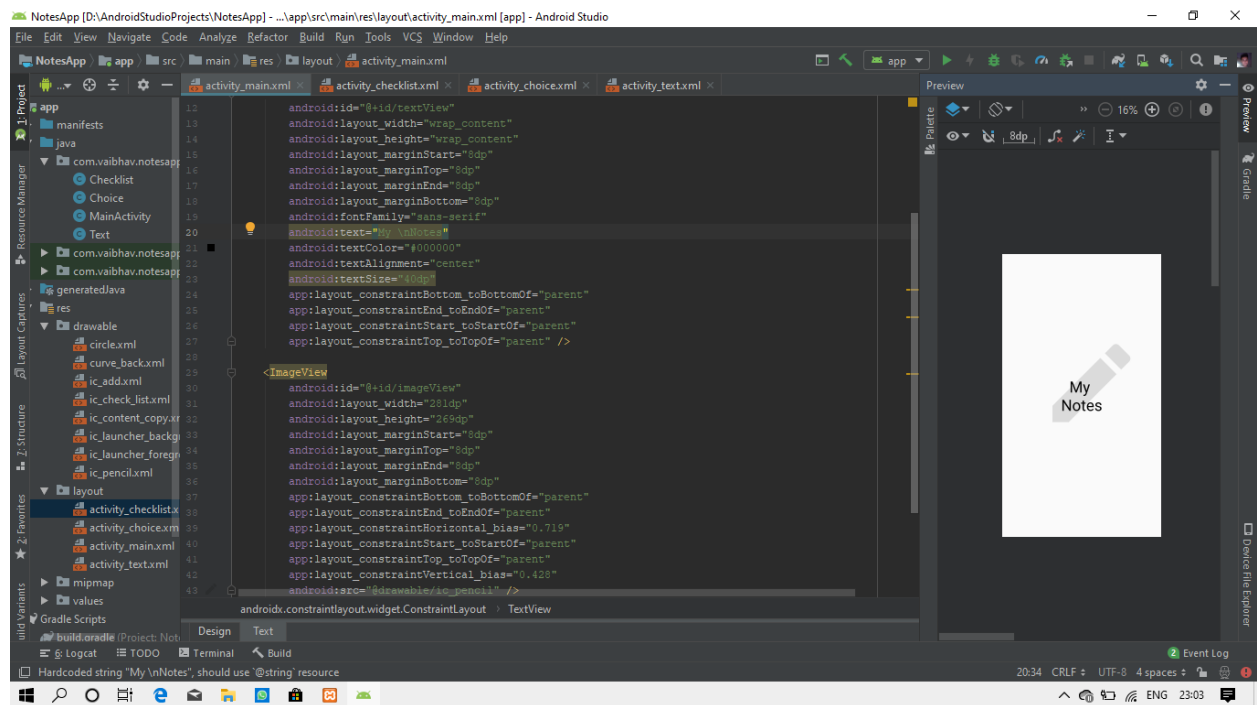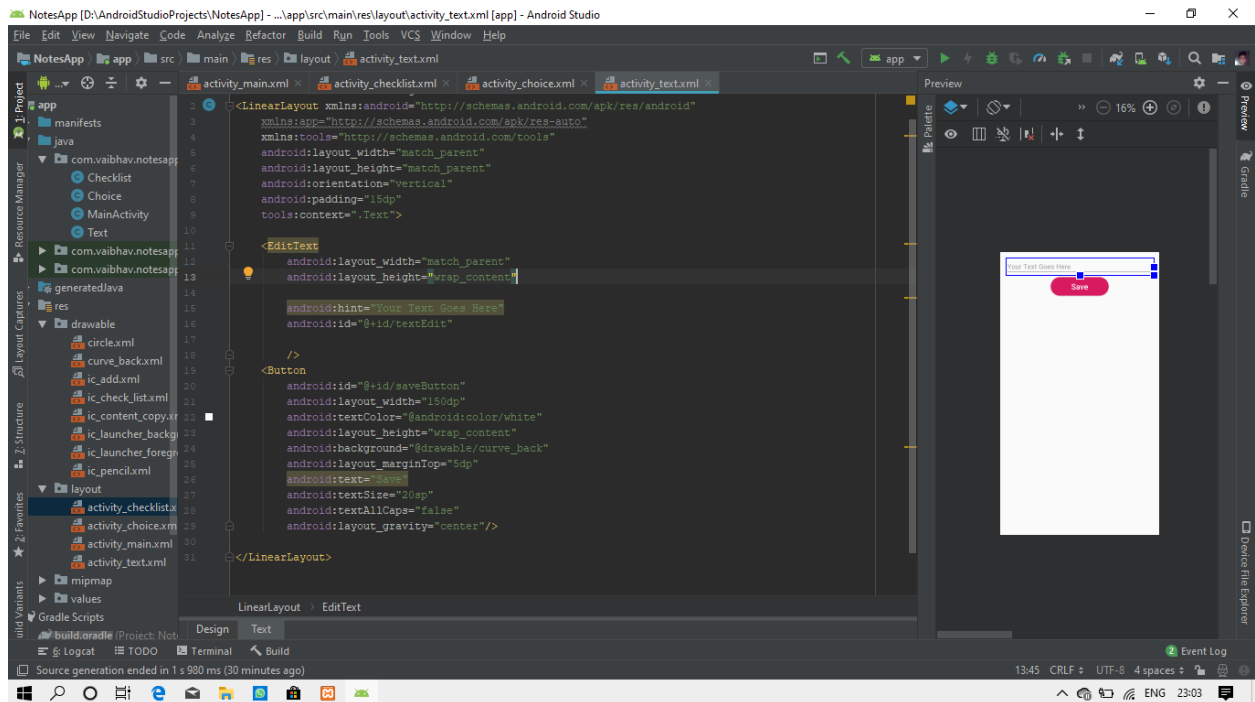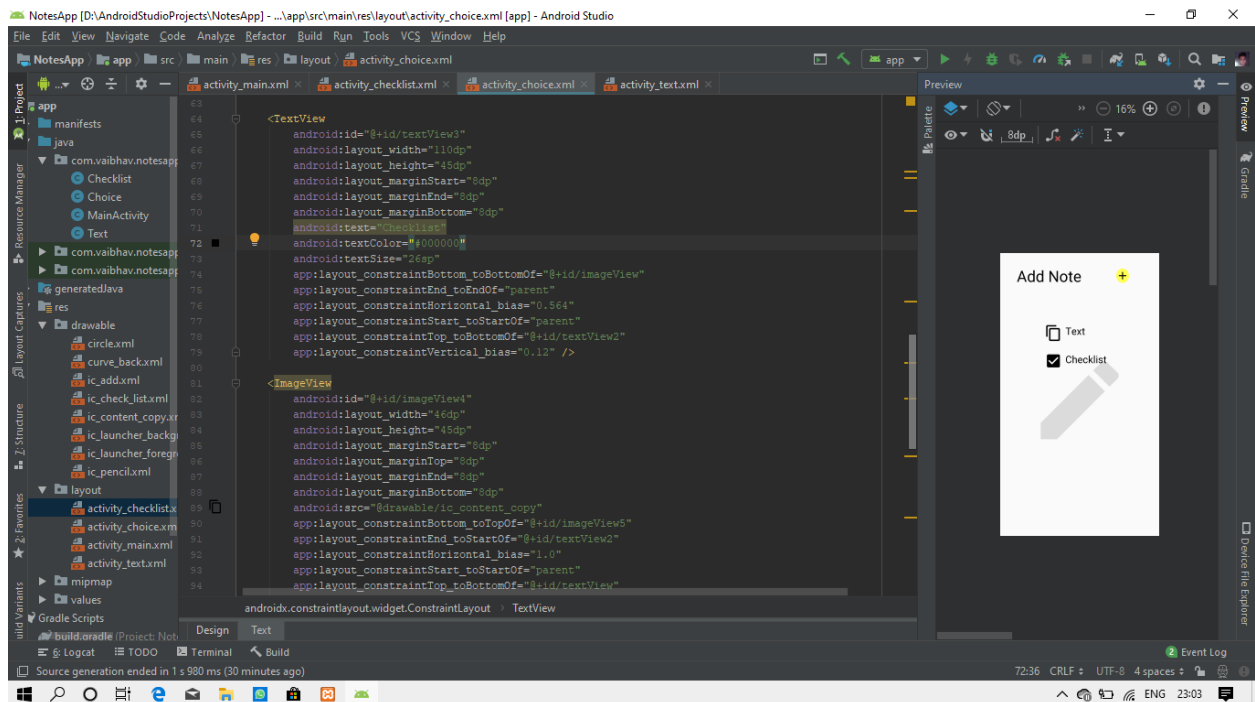
1. I have successfully made the module for text and the checklist.

2. The theme changing module is also working quite impressively which makes the notes not only attractive but also quite easily readable.
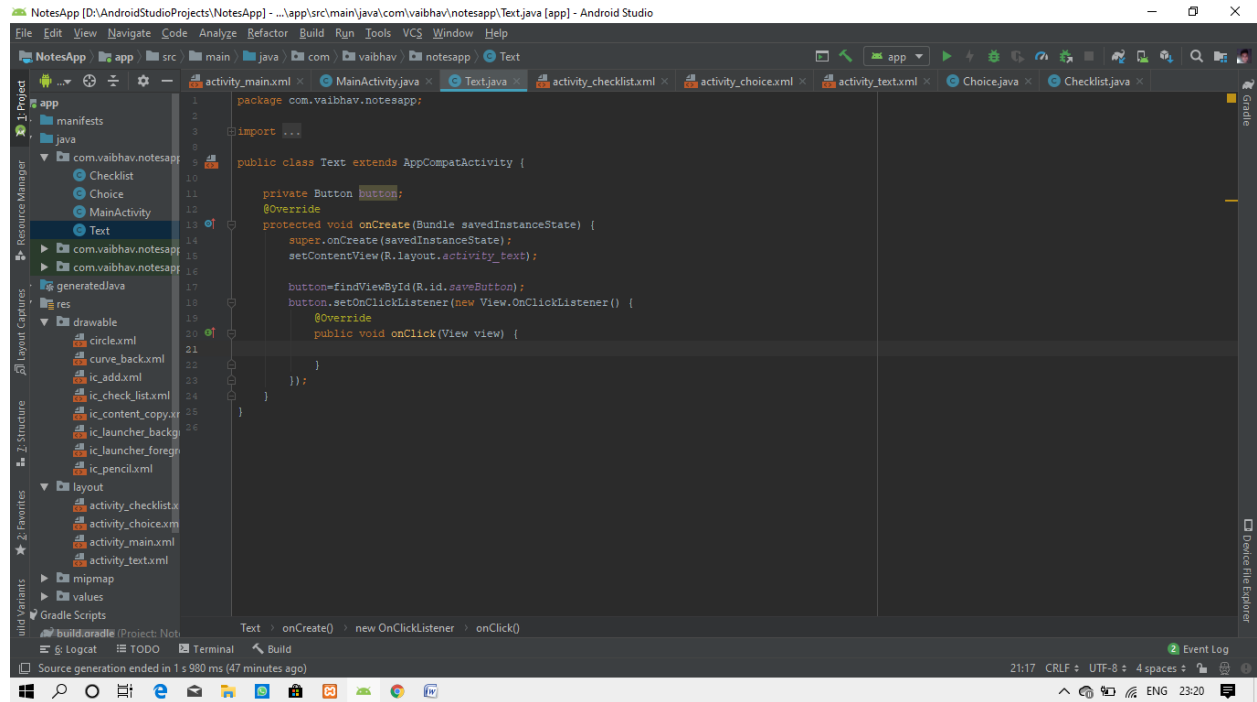
Remaining work:

1. Implementation of GCP database to fetch the previous data.

2.Implementation of priority algorithm for the checklist.

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

NotesApp ▶ app ▶ src ▶ main ▶ res ▶ layout ▶ activity_choice.xml

activity_main.xml | activity_checklist.xml | activity_choice.xml | activity_text.xml

```xml
<TextView
    android:id="@+id/textView3"
    android:layout_width="110dp"
    android:layout_height="45dp"
    android:layout_marginStart="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="8dp"
    android:text="Checklist"
    android:textColor="#000000"
    android:textSize="26sp"
    app:layout_constraintBottom_toBottomOf="@+id/imageView"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.564"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2"
    app:layout_constraintVertical_bias="0.12" />

<ImageView
    android:id="@+id/imageView4"
    android:layout_width="46dp"
    android:layout_height="45dp"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="8dp"
    android:src="@drawable/ic_content_copy"
    app:layout_constraintBottom_toTopOf="@+id/imageView5"
    app:layout_constraintEnd_toStartOf="@+id/textView2"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
```

androidx.constraintlayout.widget.ConstraintLayout > TextView

Design Text

Preview

Add Note +

Text

☑ Checklist

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

NotesApp ▶ app ▶ src ▶ main ▶ res ▶ layout ▶ activity_text.xml

activity_main.xml | activity_checklist.xml | activity_choice.xml | activity_text.xml

```xml
<LinearLayout 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"
    android:orientation="vertical"
    android:padding="15dp"
    tools:context=".Text">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

        android:hint="Your Text Goes Here"
        android:id="@+id/textEdit"

        />
    <Button
        android:id="@+id/saveButton"
        android:layout_width="150dp"
        android:textColor="@android:color/white"
        android:layout_height="wrap_content"
        android:background="@drawable/curve_back"
        android:layout_marginTop="5dp"
        android:text="Save"
        android:textSize="20sp"
        android:textAllCaps="false"
        android:layout_gravity="center"/>

</LinearLayout>
```

LinearLayout > EditText

Design Text

Preview

Your Text Goes Here

Save

References

1. Wikipedia
2. https://www.youtube.com/
3. https://developer.android.com
4. https://www.tutorialspoint.com
5. https://stackoverflow.com