

Notez Application

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Students, Final Year, Computer Technology, 2021.

Abstract: *The issue of redundancy is very paramount in any resource used to share documents. Therefore we intend to aid in the redundancy issue by bringing an application that involves sharing of all the relevant documents that are useful to the students.*

Not only does the application share the notes, it has all the data that could be useful to an individual. By this we mean that there is Authentication for address the security issue, and the data remains confidential. Also, with the kind of security we intend to implement if for any reason the user is not able to login to their account, they can directly contact the administrator who would address their problem in no time.

Lastly the database has records of files that belong to individual users, so that one could easily find one's files all at the same place. The use of Google's Firebase and the APIs developed by open source programmers coupled together helped in accomplishment of that. Here an individual can sign up or log in with the credentials given to them.

From this project, we hope to build a platform for students to easily get the things they need.

I. INTRODUCTION

The traditional method for note taking although effective yet is a tedious task and may of the times the students do not manage to note down the a few important points. When provided by the teachers or professors sometimes there are references which cannot be left behind or which leave the notes incomplete.

There exits various places from where a student can study or refer from such as self-notes, provided notes, applications to take notes and review them later but there's no such platform or method where the notes can be shared conveniently.

In this project we design an android application that is specifically used for sharing documents, for the purpose of students to share study materials, we've tried to use different techniques so that the most precise set of documents show up on a search.

II. EXISTING SYSTEM

1. Our stuff is often not organized correctly.
2. It is time consuming to go word by word through a book and find the answer
3. Not all of us have it easy to find the most precise answers.
4. You don't already have an application where you have all your docs prepared.

III. PROPOSED SYSTEM

Cloud storage platforms have evolved and are used as non-volatile storage. Data is easily uploaded and retrieved from these storage resources. A user-friendly Interface is used to access all the features to operate on these files. An Open-Source platform like Android is a great temptation to this idea of file transfer. Android and Java Programming together blend right in and make the application really responsive.

IV. MOTIVATION FOR THE WORK

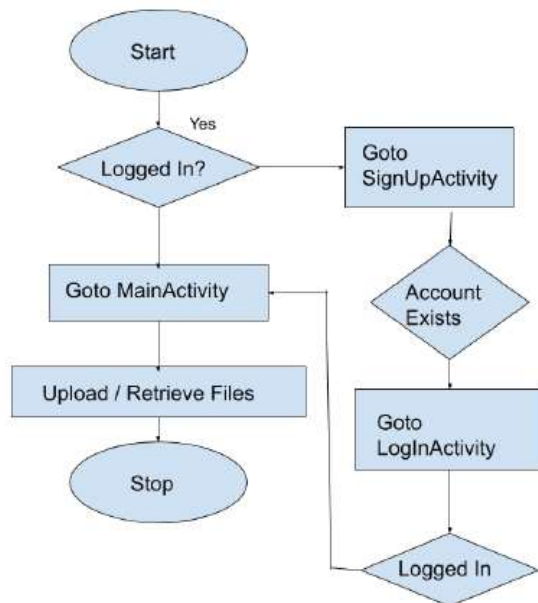
The agony we go through because we can do nothing other than,

1. Stick our noses inside books with handwritten notes which are sometimes not readable.
2. Try looking up on the internet.
3. Settle for less.
4. Reference and Solutions.
5. More Books.

V. IMPLEMENTATION

The application is built in android to target most of the users out there. It has a Login and Registration System based on Firebase. The Uploading and Viewing facility is available for the users. The UI is made in XML and the programming is done using Java which makes the application really fast. Works on Android 4.0 and above to target almost all of the Android users. Data is stored as JSON objects and can be viewed and retrieved from the application itself. Cloud Storage by firebase is used so as to maintain Confidentiality.

VI. ACTIVITY DIAGRAM



VII. REQUIREMENT GATHERING

a) Hardware Requirement

The application requires runtime permissions to storage to be able to store and view documents from the mobile itself. The processor performance is proportional to the functioning of the product. The operating System main memory is also a crucial aspect as the application while running needs a main memory that suffices its requirements.

- CPU Speed: 1.0 GHz (2.0 GHZ Recommended).
- System Memory (RAM): 512 MB (2 GB Recommended).

b) Software Requirement

The application, as made in android has a light and interactive user interface that uses different kinds of layout used. Toast animations are used for validation. Linear and Relative layout have been used a lot along with constraint layout.

This user interface has a lot to offer like animations while migration from text fields, start-up splash screen, etc. The people involved are the admin has all the rights to upload, modify and download things, and the clients who can download at will but can't have rights to modify the docs.

- OS: Android.
- Android Version: 4.0.3 & Later.

VIII. PLATFORM

1. Android

Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers. Android applications are usually developed in the Java language using the Android Software Development Kit.

2. XML

XML stands for Extensible Markup Language. XML is a markup language much like HTML used to describe data. XML tags are not predefined in XML. Also, it is scalable and simple to develop. In Android we use xml for designing our layouts because xml is lightweight language so it doesn't make our layout heavy.

3. Firebase

Firebase is a toolset to "build, improve, and grow your app", and the tools it gives you cover a large portion of the services that developers would normally have to build themselves like analytics, authentication, databases, configuration, file storage, push messaging, and the list goes on

IX. FUTURE SCOPE

We will further add the functionality to give pointers to 'Reference Books' and which would be whole lot easier for people to look up straight at referenced documents. There's no need to be searching the entire internet just to make sure the documents have the most accurate piece of information you need.

X. REFERENCES

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