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Task Top Manager

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Abstract
In a busy schedule, we tend to forget many important things easily, and to remember these things we need to note down things on a piece of paper. In such busy schedules people need some personal assistant or a reminder to remind them about the important work that needs to be done. This android application will help them to remember, to do such important things. This reminder android application can help us to note the daily task which needs to be done. Important meetings, events etc. can be recorded with great ease through the use of this application. This application will allow the users to organize the data in a simpler and easy way. In this application users can view all the Notes, likewise also can manage old and new notes. Users can also change the colour of the sticky notes. Users can grant permission for floating notes. Only 3 notes can be floated and which can be further expanded and collapsed. These sticky notes can also be edited and deleted. All the users personal data like images, video, and files are stored on cloud storage of firebase. Firebase is a realtime database which helps users to fetch data and store data in realtime. Same firebase provides high security and backup to users' data. All the video rendering and image rendering is done via firebase realtime database. Same app allows users to keep backup of stored data in the database. This app helps users in day to day life.
Keywords: *Firebase, Dependencies, API, Constraint Layout, reminder, Alarm, Hardware, Navigation*

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I. INTRODUCTION

Notes app is used for making short text notes, updating when you need them, and trash when you are done. It can be used for various functions as you can add your to-do list in this app, some important notes for future reference, etc. The app is very useful in some cases like when you want quick access to the notes. This is an Android-based application in which an automatic alarm ringing system is implemented. It focuses on user tasks. Users need not remember their work timings as they can set an alarm on their work timings. The alarm can be set for multiple tasks and timings including date, time and tasks description. A tune will start ringing for messages once timer done. The system focuses on easy navigation and good user interface. Many such task reminder systems have been developed where new hardware is required but in our work we have made an attempt to develop a system which is effective and time-saving.

1.1.1 Overview

This application aims to help people. The objective of the project is to build an application which will help to note-down tasks and complete them on time. With the help of this application, users can set timers for particular tasks. When the timer reaches the exact time, it will start ringing. The app allows users to store notes like video, images and files. All these will be stored in cloud storage which helps users to take backup of data. Overall this app helps users to keep track of day to day tasks like important tasks. Same app reminds the user to keep focus on its daily goal that has been set

1.1.2 Purpose

Usually, we tend to forget many important things easily, and to remember these things we need to note down things on a piece of paper. In such busy schedules people need a reminder to remind them about the important work that needs to be done. This android application will help them to remember, to do such important things. The app should store users personal data like images, video, files on cloud. The app should render all data in realtime. So for developing this app cloud storage and database should be used.

1.1.3 Proposed System

In the current system, we have to remember our tasks, otherwise we will forget them. In the proposed system we just have to install an android application in our phone. Then register ourselves and start using it. We just need to type our daily tasks and set time. When your timer is up it will start ringing and will remind you about your tasks.

The current system works manually and is quite time consuming. The main objective for this project is developing an android application so that we can set our tasks and the app will remind us of our tasks. Thus, the process of task management will become easier and less time consuming. Just to make current system more easy and effective we are developing an android application

Advantages -

- You will never forget the important meetings or tasks.
- You can also set a colour to the sticky note.
- Simple UI/UX.
- Real-time Data Storing & Processing.
- Highly Secured Database & Storage.
- You can add ideas and important things at any time.

Disadvantages -

- Only Android mobile users can use this application
- Internet is required for video/image rendering

1.1.4 System Analysis

Android Studio and Firebase are used for developing our project which are available everywhere. It provides the technical guarantee of accuracy, reliability and security. The current system development is technically feasible with all the resources needed for development of the apps as well as the maintenance of the same is easy.

Requirement Analysis:-

Hardware requirements –
Processor: 2.2 GHZ CPU
RAM: 8 GB RAM
Device: Android Phone

Software Requirements –
Development Tool: Android Studio
Android O.S: Kit Kat & Above

1.1.5 System Design

Front End -

Android Studio is the official Integrated Development Environment (IDE) for Android app development, based on IntelliJ IDEA. On top of IntelliJ's powerful code editor and developer tools, Android Studio offers even more features that enhance your productivity when building Android apps, such as:

- A flexible Gradle-based build system
- A fast and feature-rich emulator
- A unified environment where you can develop for all Android devices
- Apply Changes to push code and resource changes to your running app without restarting your app
- Code templates and GitHub integration to help you build common app features and import sample code
- Extensive testing tools and frameworks
- Lint tools to catch performance, usability, version compatibility, and other problems
- C++ and NDK support
- Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud
- Messaging and App Engine

Back End -

Firebase is a platform developed by Google for creating mobile and web applications. It was originally an independent company founded in 2011. In 2014, Google acquired the platform and it is now their flagship offering for app development.

Firebase evolved from Envolve, a prior startup founded by James Tamplin and Andrew Lee in 2011. Envolve provided developers an API that enables the integration of online chat functionality into their websites. After releasing the chat service, Tamplin and Lee found that it was being used to pass application data that were not chat messages. Developers were using Envolve to sync application data such as game state in real time across their users. Tamplin and Lee decided to separate the chat system and the real-time architecture that

powered it. They founded Firebase as a separate company in September 2011[4] and it launched to the public in April 2012.

Firebase's first product was the Firebase Real-time Database, an API that synchronizes application data across iOS, Android, and Web devices, and stores it on Firebase's cloud. The product assists software developers in building real-time, collaborative applications.

1.1.6 Literature Survey

What is an Android Application?

Android is a mobile operating system (OS) based on the Linux kernel and currently developed by Google. With a user interface based on direct manipulation, Android is designed primarily for touchscreen mobile devices such as smartphones and tablet computers, with specialized user interfaces for televisions (Android TV), cars (Android Auto), and wrist watches (Android Wear).

The OS uses touch inputs that loosely correspond to real-world actions, like swiping, tapping, pinching, and reverse pinching to manipulate on-screen objects, and a virtual keyboard. Despite being primarily designed for touchscreen input, it also has been used in game consoles, digital cameras, and other electronics. Android is the most popular mobile OS. As of 2013, Android devices sell more than Windows, iOS, and Mac OS devices combined, with sales in 2012, 2013 and 2014 close to the installed base of all PCs. As of July 2013 the Google Play-store has had over 1 million Android apps published, and over 50 billion apps downloaded.

A developer survey conducted in April–May 2013 found that 71% of mobile developers develop for Android. At Google I/O 2014, the company revealed that there were over 1 billion active monthly Android users (that have been active for 30 days), up from 538 million in June 2013.

Literature survey:-

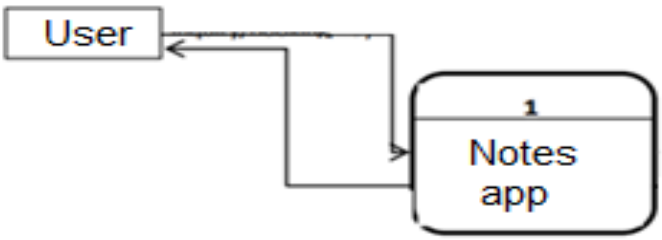
- Memorandum: A Mobile App for Efficient Note Keeping in Concurrent Multi-participant Human Subject Studies
- Published in – 13 November 2017

Note keeping is an indispensable ingredient of successful research. Although traditionally performed on paper, recently the task is increasingly facilitated by Electronic Lab Notebooks, i.e., ICT programs that allow their users to make electronic observations in laboratory settings. When it comes to human subject studies (HSR), i.e., the scientific investigation of human beings for medical, behavioural or social purposes, it is sometimes the case that multiple study participants perform a certain task concurrently. In such concurrent multi-participant experiments, efficient note keeping is critical as it can help assure the quality of the collected data and filter out compromised cases. The current paper presents Memorandum, a novel configurable Android application that allows the assistants of medical, behavioral or social HSR experiments to quickly and easily keep notes about the study participants. The app, which has already been employed in a behavioural study involving 40 participants, is freely available via Google Play.

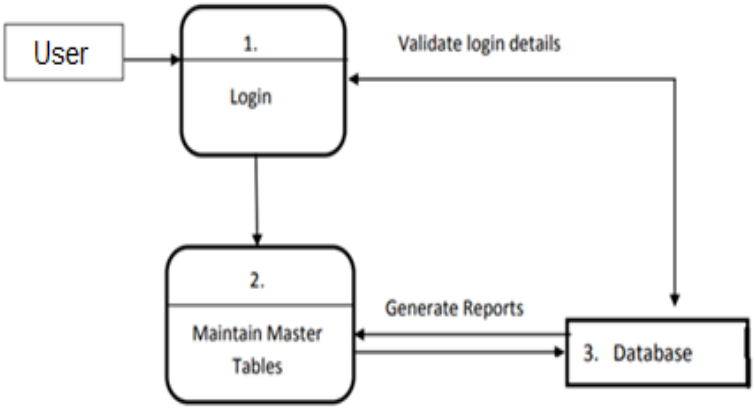
1.1.7 Data Flow Diagram

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD shows what kind of information will be input to and output from the system, where the data will come from and go to, and where the data will be stored. The development of DFD'S is done in several levels. Each process in lower-level diagrams can be broken down into a more detailed DFD in the next level. The Top-level diagram is often called context diagram. It consist a single process bit, which plays vital role in studying the current system. The process in the context level diagram is exploded into other process at the first level DFD.

Level 0



LEVEL 1



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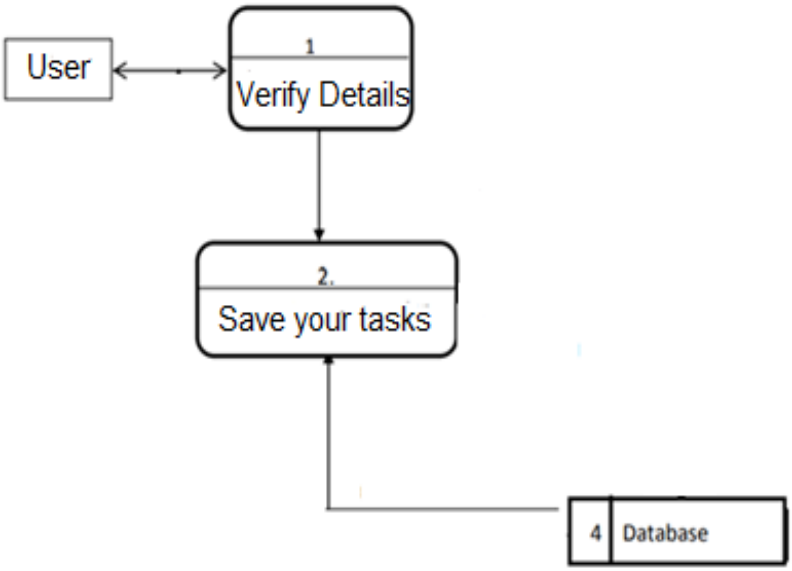
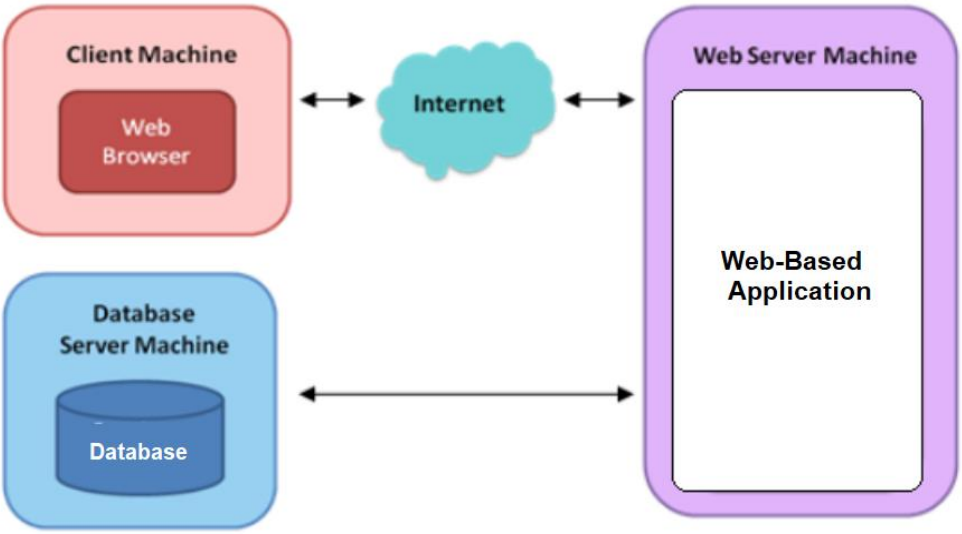
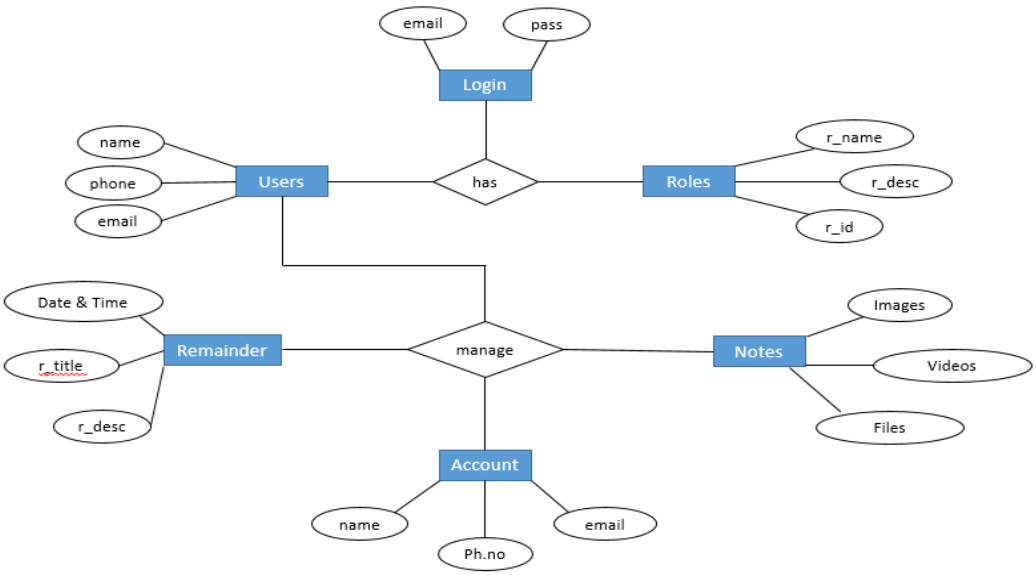


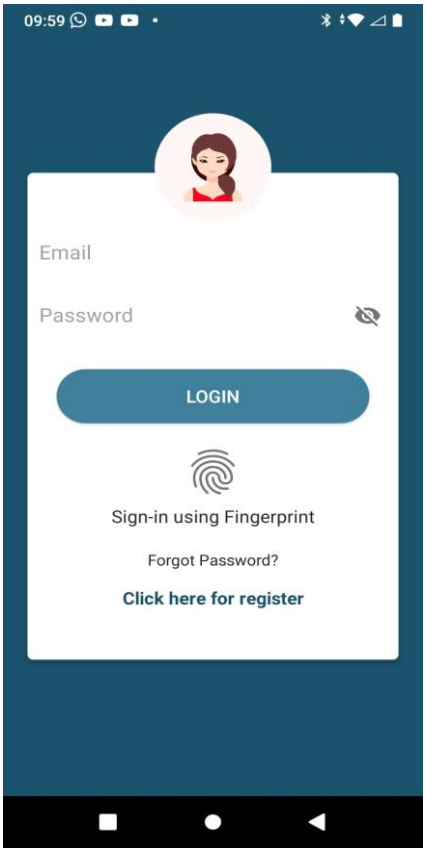
1.1.8 System Architecture

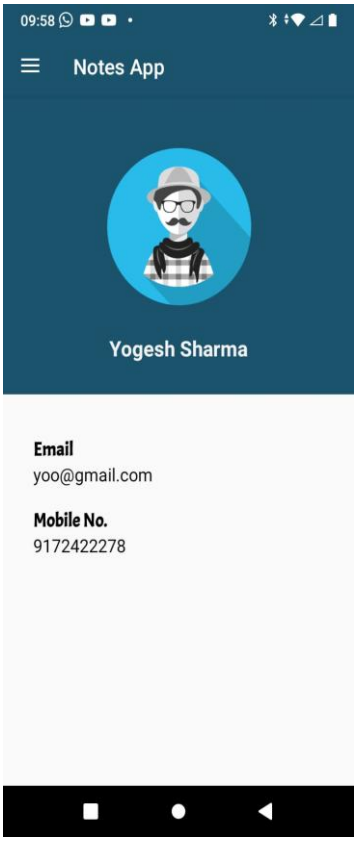


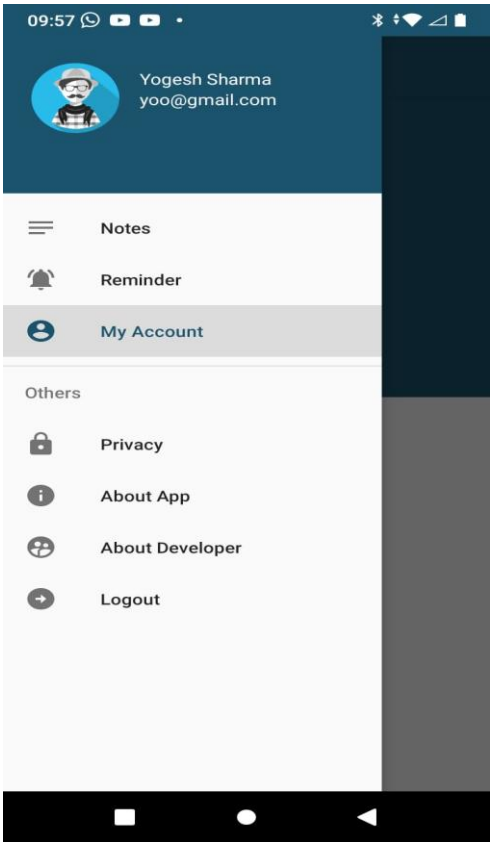
1.1.9 ER Diagram :

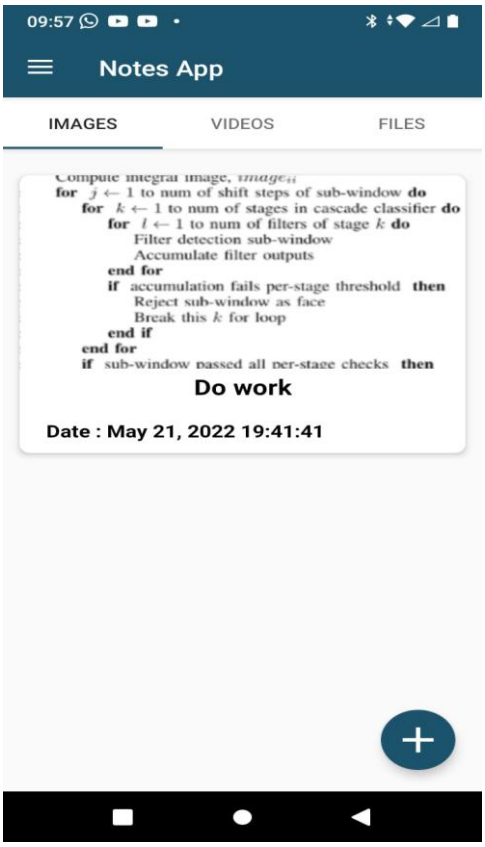


1.1.10 OUTPUT OF OUR APPLICATION









II. CONCLUSION

It can be observed that computer applications are very important in every field of human endeavour. Finally we have built an application which will store user data. This application will awake user about his/her tasks. This application will make you more organized. It will help you to do our tasks on time. It will also reduce the workload of the memory, reduce the time of user and also increase efficiency. This project, as a whole, will give a new way in task management processes. The automation and scheduling of tasks will be done online.

III. FUTURE SCOPE

The following section describes the work that will be implemented with future releases of the software.

- In the upcoming version of the application, we can do everything from the app, just like location based task reminder, etc.
- This application will act as a platform, which will be helping in task management also.
- Making the app supports multiple platforms (cross platform app).

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