

Notes App with Note Pinning

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Abstract - This is an app which tries to fix the forgetful nature of humans, it's a notes app that lets you pin notes directly to notification bar that won't go away while clearing all notifications. And it also has added advantage of cloud database to sync on multiple devices.

Key Words: Notes, to-do, Android, App, Work

1. INTRODUCTION

The time before the smartphone era required people to take notes by writing them down on paper (or a small book called notepad). But now with smartphones in the reach of everyone's hand, it has become quite easy to write down notes within the notes app. That's why a Notes app can be a very handy tool in day-to-day life, especially when you are busy in your life and can't remember small things. Now to this day, there are plenty of note's apps on the App Store, but what they lack is the ability to remind us the thing we wanted to do, we will fix that with our app.

1.1 AIM AND OBJECTIVE

The objective of this app is reminding people of the work they have to do throughout the day. A user uses his/her phone for around 5.5 hours a day on average, pulls down the phone's notification shade around 40 times a day on average, therefore reminding them their tasks from the notification bar through a pinned note is a smart move [1]. The main objectives of this application are as follows:

1. To remind people constantly of the work they have to do with pinned notes.
2. Sync the notes on multiple devices.
3. Light and efficient app that can run on weakest of devices with user friendly UI/UX.

1.2 PROBLEM STATEMENT

In this busy world of today, people forget 40% of what they remember in 20 minutes and 77% of what they learned in six days. Which is a lot higher than we expect it to be. People forget about 90% of what they have to do within a month [2]. This is an issue that is not easy to fix, but with the help of smartphone, there is a way to remember these things.

Table - 1: Forgetting Curve [3]

Time Period	Percentage of Knowledge retained
20 mins	60%
1 hour	45%
9 hours	38%
2 days	30%
6 days	23%

2. RELATED WORKS

The current notes or to-do-list applications do the work but are inefficient in reminding people constantly about the things they have to do.

And most of the apps are bland in design, hence becoming more unappealing to open.

Table - 2: Already Available Apps

Application Names	Strengths	Weaknesses
Color Note [100m+]	Sticky Notes, Color Option.	No Pinning or multi device sync
Google Keep [1B+]	Multi Device sync, Add photos, Color Notes.	No Pinning feature

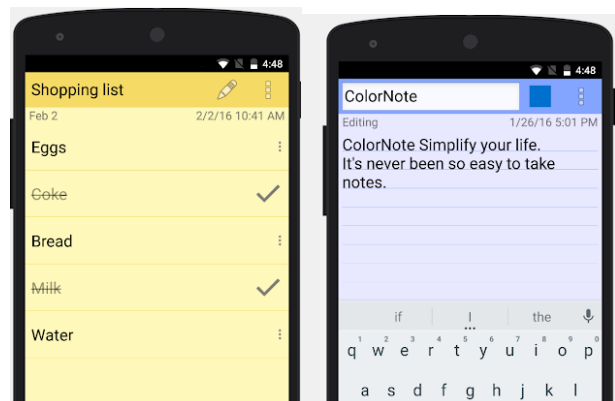


Fig - 1: Screenshots of existing apps

3. METHODS

This project is developed using Waterfall Development Model. It is also referred to as a linear-sequential life cycle model. It is very simple to understand and use. In a waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases. Waterfall approach was first SDLC Model to be used widely in Software Engineering to ensure success of the project. In "The Waterfall" approach, the whole process of software development is divided into separate phases. In this Waterfall model, typically, the outcome of one phase acts as the input for the next phase sequentially. This model was chosen because the requirements were well documented, clear and fixed and there were no ambiguous requirements.

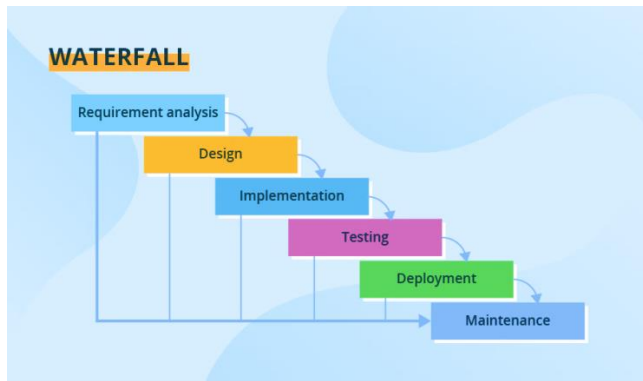


Fig - 2: Waterfall Development Model

4. EVALUATION

Testing's such as Unit testing, Integration testing, Load and Stress testing were performed on the prototype of our app.

The application had a critical bug with SQL, the notes were unable to be edited if they were saved by offline method without internet. The bug was fixed later.

Later the app was checked for all the error messages related to network issues. Some improvements regarding data management in apps and faster response rate were suggested by the testing team. These updates will be done in the next version of the app, and after Acceptance testing this app will be published on the Google Play store.

5. FUTURE SCOPE

- The app is only available for android as of now. As soon as this project is over, the team will be working on same application for iOS and Windows, that will enable cross platform sync.
- Add support to attach images and documents in the note itself.

6. CONCLUSIONS

The prototype of our Notes Application was developed successfully. The major objectives covered by our application are as follows:

- People will be able to complete their work on time.
- People won't have to worry about remembering the things they have to do.
- The app supports Multi device sync that means same notes can be viewed on multiple devices.

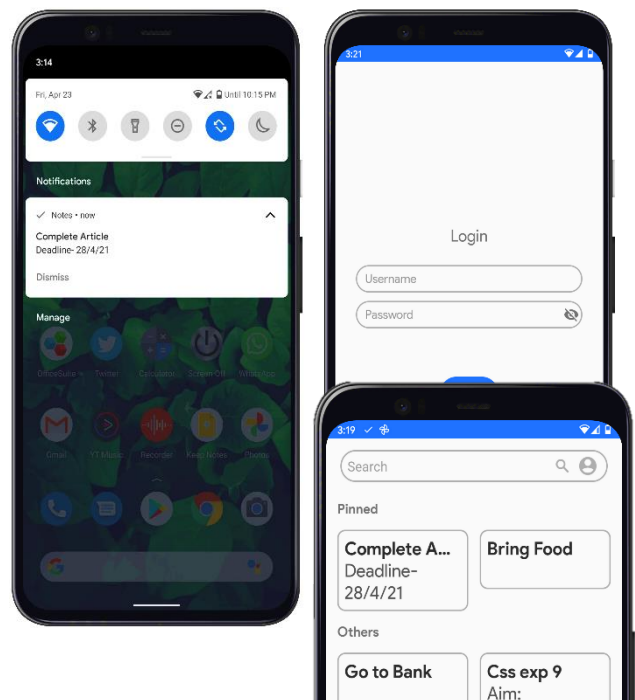


Fig - 3: Screenshots of Notes apps

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