

MOBILE PROGRAMMING PROJECT

REPORT BY TUKWASIIBWE MARTIN 22/U/21816/EVE.

GROUP 15

GitHub Repo link: <https://github.com/GROUP4MOBILE/MobileProgramming1.git>

RE: A PROJECT REPORT ON TASK MANAGEMENT APP IN ANDROID STUDIO

Introduction:

In response to the increasing demands for efficient task management solutions in today's fast-paced world, this project focuses on developing a modern task management application. This application aims to provide users with comprehensive functionality, including features such as subtasks, start and end dates, completion marking, reminders, and the ability to attach resources directly to tasks. By offering these features, the main goal is to empower users to efficiently manage their tasks, stay organized, and collaborate effectively.

Project Overview: The task management application project has been structured into three categories: Bronze, Silver, and Gold, reflecting the complexity and depth of functionality offered.

Bronze

- 1. Task Creation and Organisation:** Users can easily create tasks and organize them into lists, laying the foundation for effective task management.
- 2. Completion Marking:** Tasks can be marked as completed, providing users with a sense of progress and accomplishment.
- 3. Reminders:** Users can set reminders to receive timely notifications for upcoming deadlines, ensuring tasks are completed on time.

Silver

- 1. Subtasks:** Tasks can be broken down into manageable subtasks, enhancing organization and facilitating the handling of complex tasks.
- 2. Progress Tracking:** Users can track the progress of their tasks and subtasks, providing valuable insights into productivity and workflow.
- 3. Timelines with Start and End Dates:** Tasks and subtasks can be assigned start and end dates, allowing users to prioritise and schedule their work effectively.

Gold

- 1. Ability to Attach Resources:** Users can attach relevant documents, files, or notes directly to tasks, streamlining organisation and enhancing productivity.

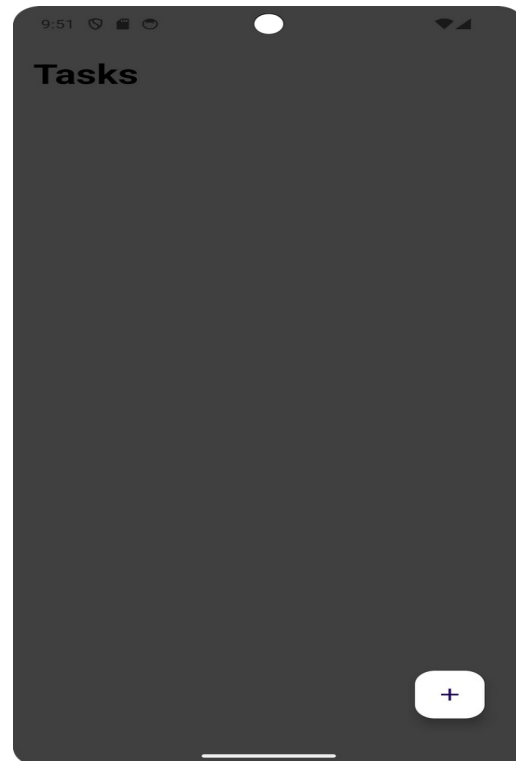
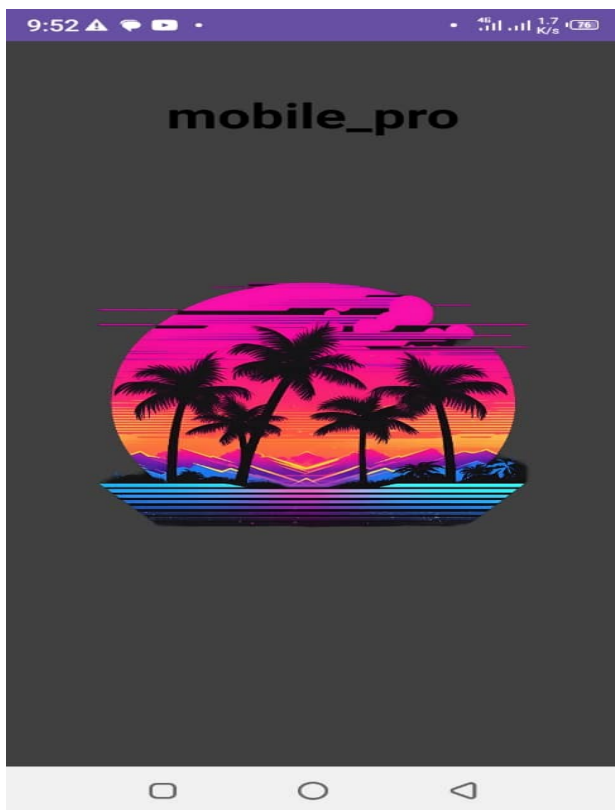
Feature Implementation Details: The task management application was developed using Kotlin programming language for the Android platform, with Android Studio as the development platform. Each feature was implemented with a focus on user-friendliness, efficiency, and scalability.

Challenges and Solutions: Throughout the development process, several challenges were encountered, including learning curves with new technologies and implementing complex features such as resource attachments. These challenges were overcome through research, and collaboration with others in and out of our class, resulting in innovative solutions and continuous improvement.

SCREENSHOTS

The following screenshots were taken from a well functioning task management app after it was fully developed and with all functionalities working as expected.

The flash screen and the task adding screens.



title

description

date

end_date

Subtask:

Add

Reminder

upload

save

Road Construction. 🛣️ 🛣️ 🛣️

Constructing a 10km tarmac road under local government.

2024-04-25

2024-04-25

Subtask:

Add

1. Area survey.

2. Gather construction materials.

Reminder

upload

save

ADDING TASKS AND SUBTASKS

title area is for adding a task title.

Description area is for adding a task description.

Date area is for adding a start date when the task is to commence.

end_date area is for adding an end date when the task is expected to be completed.

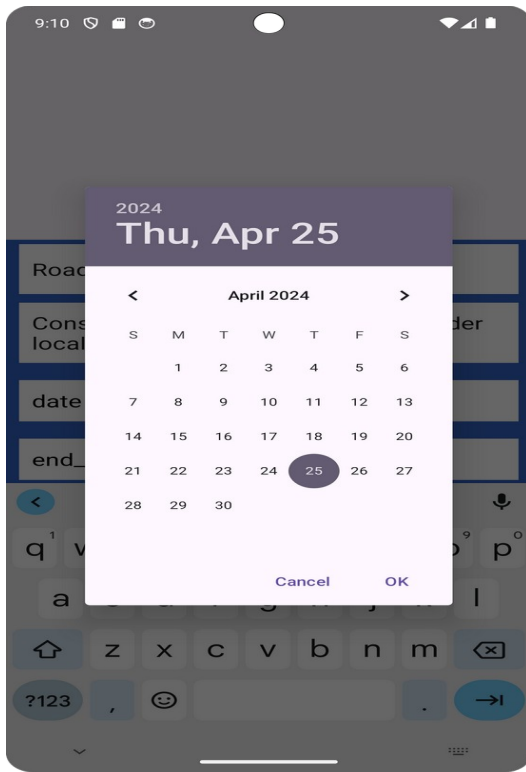
Subtask area is for listing a number of the subtasks under the main task created.

Add button is for adding the subtasks under the main task.

Reminder button is to enable the user set a reminder for a specific task or subtask for progress tracking.

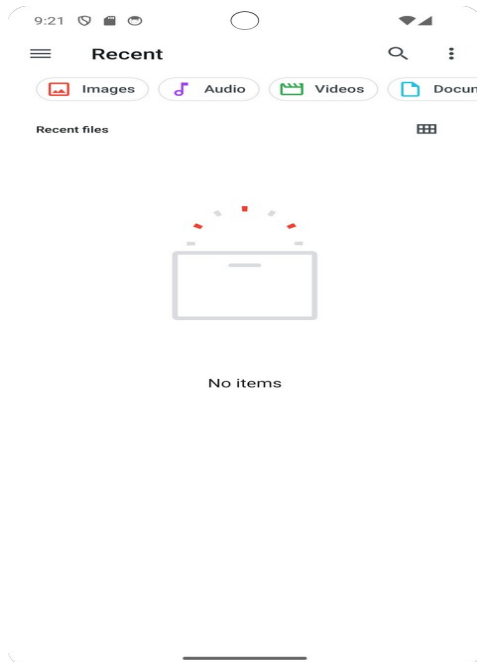
upload button is to enable the user to attach and upload files

save button is for allowing the user to save a task and its, subtasks as well as reminders that have been created.



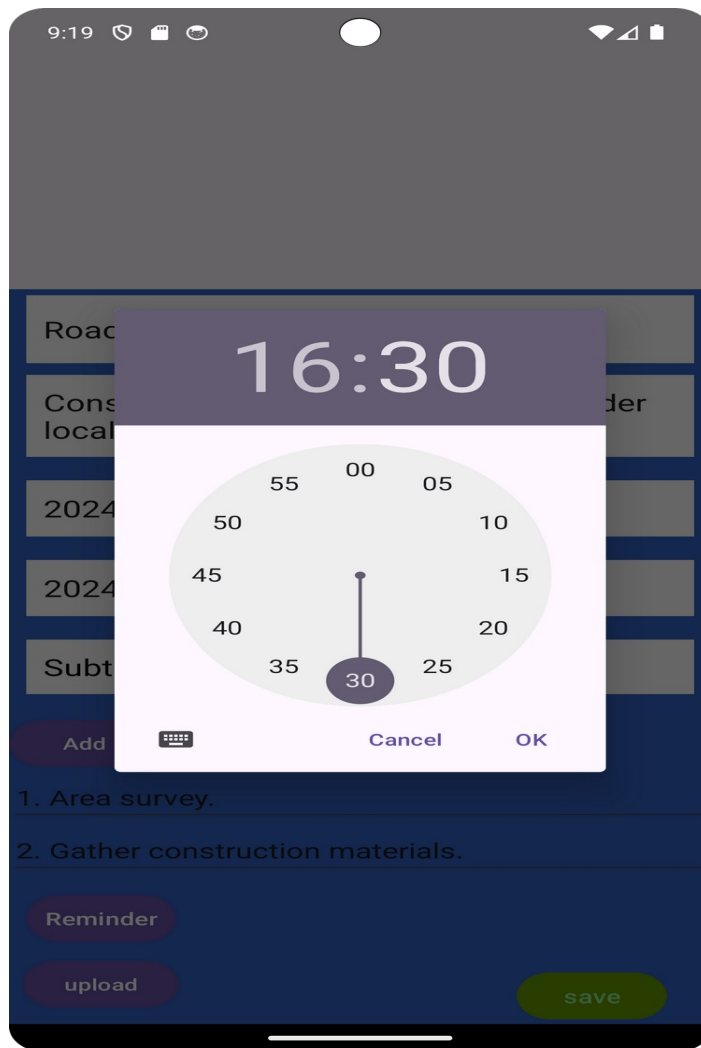
TIMELINES

A screenshot for adding start or end date for the task being created.



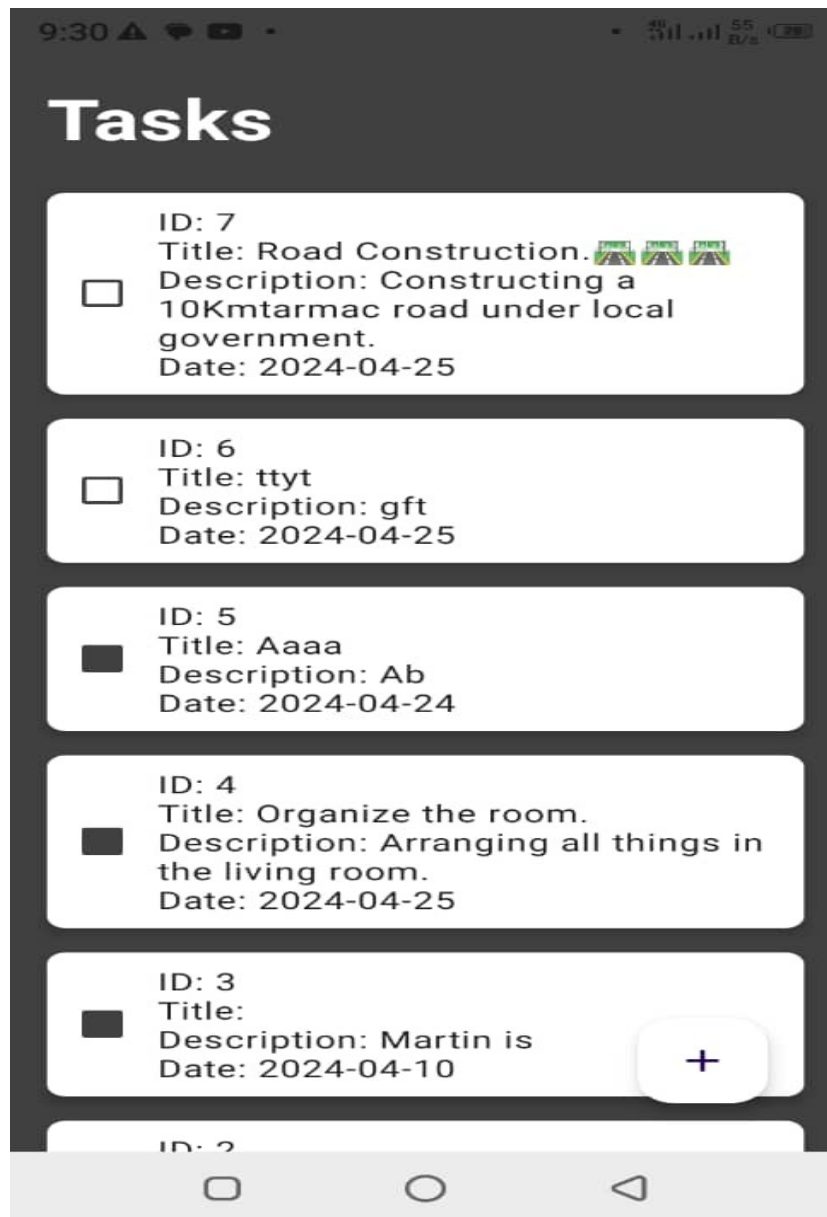
UPLOADING FILES

A screenshot showing the ability of the task management app to upload resources when upload button is clicked.



REMINDERS

A screenshot indicating the ability of the task management app to set a reminder for a task created.



SAVED TASKS

A screenshot showing the tasks that are created and the ones completed are checked and can be deleted or removed from the todo tasks.

Team contribution

This project was meant to be developed by a team of three members in a group namely TUKWASIIBWE MARTIN, ASIIMIRE PATRICIA and NAKASUJJA GERTRUDE as registered in group 15. However, due to unavoidable circumstances and individule issues the others could not continue with the course unit leaving TUKWASIIBWE MARTIN as the only one to continue with the app development.

Conclusion:

In conclusion, the task management application project has successfully implemented a range of features to meet the diverse needs of users, from essential task management functionalities to advanced capabilities for its users. The innovativeness efforts of the developer have led to the creation of a robust and user-friendly application that enhances productivity and organisation of the task management app users. Moving forward, further enhancements and refinements can be made based on user feedback and emerging trends in task management, ensuring continued relevance and effectiveness of the application in addressing users' needs.