



UNIVERSITY MALAYSIA TERENGGANU
**FACULTY OF OCEAN ENGINEERING TECHNOLOGY &
INFORMATICS**

**FRAMEWORK-BASED MOBILE APPLICATION
DEVELOPMENT**

CSM3114

DayScape Planner App
Report

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Executive Summary

Introduction

Most common problem that affects students' performance is time management. Almost every year the study institution faces that same issue. In university, students must balance academic and cocurricular. Sometimes it slacks the time in either one of them. The propose of planner application will help the student to manage time to ensure all the activity does not miss.

The DayScape Planner App is a Flutter-based mobile application designed to streamline task planning and organization. The prototype successfully integrates a calendar, task list, and intuitive features for adding, editing, and deleting tasks. The app aims to provide users with a user-friendly and visually appealing platform to enhance their daily productivity.

Objectives

1. To develop a mobile based planner for university students.
2. To design an easy-access planner.
3. To provide a calendar-based planner that allows to add task and notes.

Problem statement

1. Students cannot manage time wisely to balance academic and cocurricular activity.
2. Students do not have the consciousness to get a planner.
3. Physical planner is not convenient to bring anywhere.

Proposed solution

1. Provide a planner application that allows the students to set their time for the next activity.
2. Introduce the planner to the students by university management.
3. Come up with a mobile-application planner that easy to be access anytime and anywhere.

Prototype Design

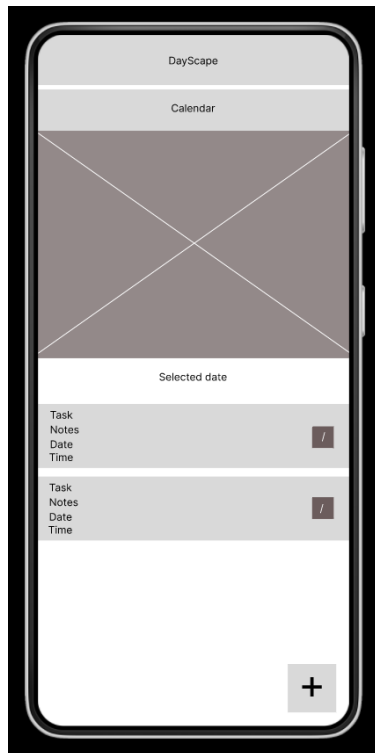


Figure 2: Home page.

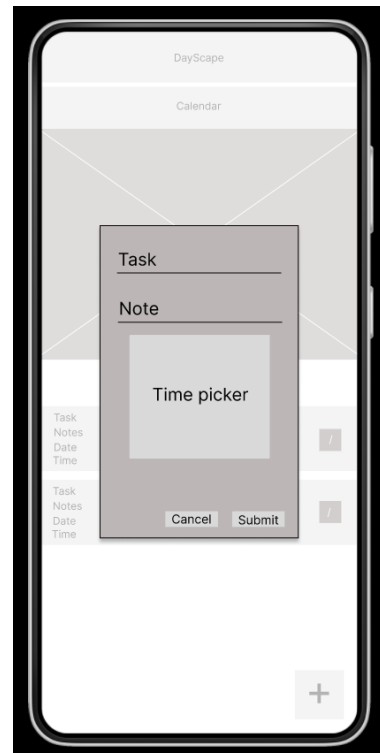


Figure 3: Add task widget.

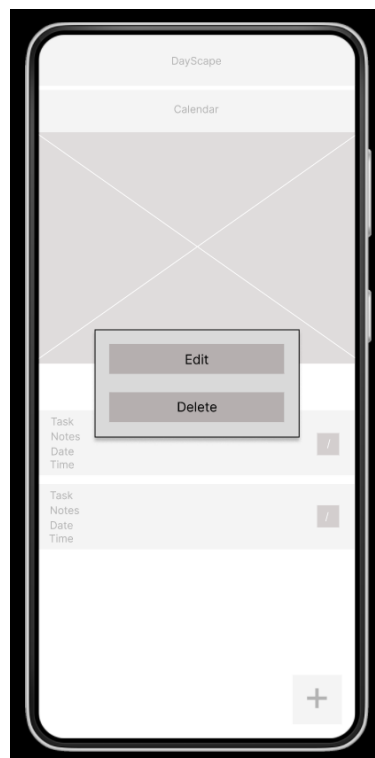


Figure 1: Edit and delete option widget.

UI of the Application

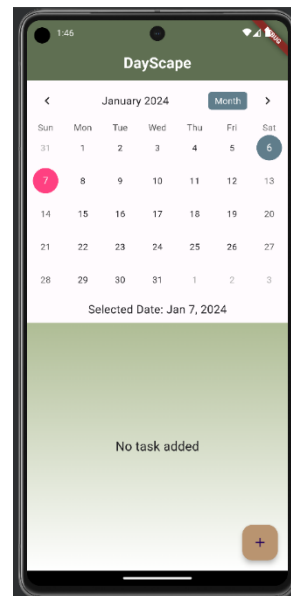


Figure 5: Home page.

Figure 4 shows the home page where the user's first view when launch the application. It will show the calendar with the filter that can be used to show month, 2 weeks or week calendar. The default today date indicator is blue grey color while selected date is pink color. The add button access the adding task session.

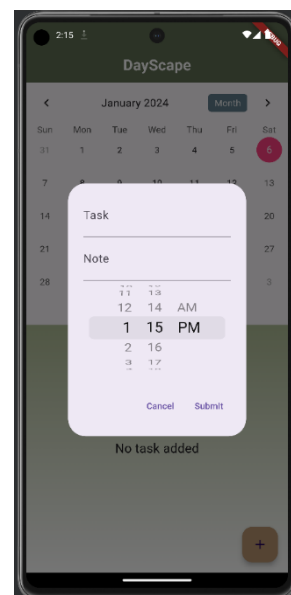


Figure 4: Add task widget.

Figure 5 shows the add task widget. User must state the task and select the time. The note is optional. Cancel button is for cancel adding task and submit button to save task.

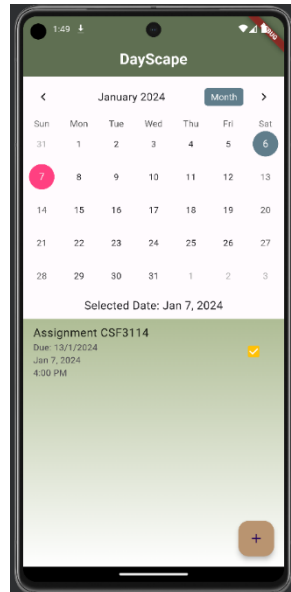


Figure 6: List of tasks.

Figure 6 shows the list of tasks. The added task will appear in the list as followed the date selected on the calendar. The lists contain the task, note, date and time. The check box at the right of the list helps user to mark the completed tasks.

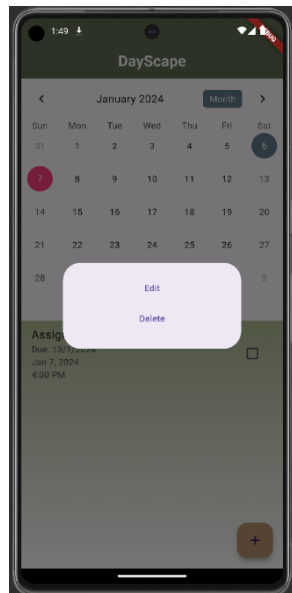


Figure 7: Edit and Delete option dialog.

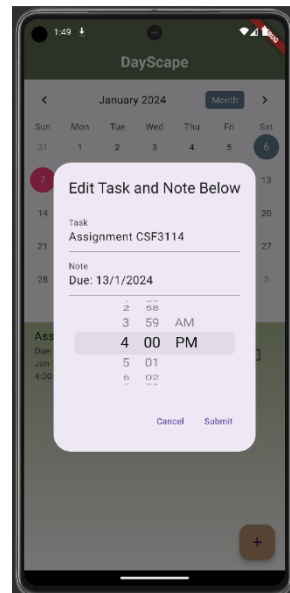


Figure 8: Edit task widget.

Figure 7 shows the edit and delete task option while Figure 8 shows the edit task widget which appear when the edit option selected. Edit session allow user to modify existed task. when submit button pressed, the list of tasks will be updated.

Potential Commercial Value and Pricing of Prototype

Commercial Value

The DayScape Planner App addresses a universal need for efficient task organization and time management. It provides users with a solution to streamline their daily planning, enhancing productivity and organization. The app's potential commercial value lies in its ability to cater to a broad audience seeking effective task management tools.

The prototype focuses on delivering a user-friendly and visually appealing interface. The clean design, integration of a responsive calendar, and task management features contribute to a positive user experience. The commercial value is derived from providing users with an intuitive and enjoyable platform for managing their tasks.

The incorporation of custom theming using the ThemeData class adds an extra layer of appeal. A visually cohesive and aesthetically pleasing design not only attracts users but also contributes to the app's perceived value. This attention to design can make DayScape stand out in a competitive market.

Pricing

1. Freemium Model:

The DayScape app is offering basic features like task management and calendar for free. It includes creating, editing, and deleting tasks. The paid version can be the advance features that enhance the user experience for premium version. It may include cloud synchronization, priority levels, additional customization options, and advanced theming.

Since the app is made for student use, it can be considered offering a discounted or student-friendly pricing for the premium version. This can make the premium features more accessible to students on a budget.

2. In-app purchases:

The app can offer premium themes or customizations options as in-app purchases. Students who want to personalize their app experience can opt for these additional features. It also can introduce additional widget packs as in-app purchases. This allows users to choose from a variety of widgets to tailor their dashboard.

3. Educational partnership

In developing the app, universities can be a partnership to offer promotions to the students. The app will be directly introduced to students by those institutions. Therefore, the application also can consider offering access or institutional licensing for educational institutions, allowing them to integrate the app into their academic programs.

Lesson Learned

The development process presented valuable lessons, including:

1. **Calendar Integration Challenges:** Overcoming challenges in seamlessly integrating the `table_calendar` package with the existing app structure.
2. **Effective State Management:** Mastering state management techniques to maintain a consistent user experience.
3. **Platform-Specific Considerations:** Implementing platform-specific date and time pickers for a native feel on android.

Conclusion

The DayScape Planner App prototype represents a significant achievement in meeting its outlined objectives, offering users not only a practical solution but a transformative experience in the realm of task organization. Through meticulous design and implementation, the app seamlessly integrates a responsive calendar and intuitive task management tools. This comprehensive approach ensures that users not only meet their immediate organizational needs but do so with a level of efficiency and user-friendliness that sets DayScape apart.

In conclusion, the DayScape Planner App prototype not only accomplishes its initial objectives with finesse but lays the groundwork for a dynamic and enduring presence in the task management market. Its user-centric design, strategic pricing, and commitment to continuous improvement position DayScape as a versatile and indispensable tool for users seeking an elevated experience in organizing and managing their daily tasks.

References

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