**KFUPM Student Application**

KFUPM provides an app for its students called KFUPM Student App that is primarily used for QR attendance.

We developed a new comprehensive all-in-one version of the app that eliminates the need for using other websites. In addition, it provides new beneficial and reliable features.

Day 1: On the first day, we began by ensuring that everyone had the necessary software installed for our project. Following that, we engaged in a productive brainstorming session to determine the most essential features that a KFUPM student would require in our app. To gather insights, we leveraged Telegram groups to identify common queries and needs among students. Through this process, we generated a list of valuable ideas, including KFUPM news, Bus schedule, GPA calculator, club events, KFUPM ID, KFUPM map, Add/drop courses, and KFUPM store, notifications for absences. These ideas formed the foundation for the subsequent development stages of our app.

Day 2: On the second day, we made significant progress by designing the user interface (UI) of our app and successfully integrating the new features to it. Additionally, we dedicated time to acquiring the essential knowledge of the Dart programming language, which will enable us to utilize it within the Flutter framework.

Day 3: On the third day, we focused on completing the coding portion of our project, ensuring that all functionalities were working as intended. We also began preparing for our upcoming presentation and documentation, aiming to showcase the progress we've made and provide comprehensive information about our app.

**Log in page:**

The following screen prompts the user for their email and password to enter their account.

**Home page:**

The top bar contains a banner that displays the latest news of the university. The user can smoothly scroll through it to navigate between the news.

The body of the screen contains a greeting phrase concatenated with the user’s name and buttons for the services provided by the app.

Some of the services are already in the actual application. However, we added some new services: GPA calculator, KFUPM ID, and Bus schedule.

The bottom bar contains four buttons that direct the user to the home page, the calendar, the events page, and the side panel.

**Bus Schedule Page:** As one of the new features in our KFUPM student app, the Bus Schedule page provides a convenient and user-friendly interface for accessing and navigating the various bus routes. It presents a comprehensive list of routes available, along with the corresponding next bus arrival times for each route, ensuring that students can efficiently plan their transportation within the campus.

**Darajati attendane page:** Darajati Attendance Page: While the Darajati attendance page is already available on the KFUPM portal, integrating it into the KFUPM student app offers enhanced convenience for students. By having this page within the app, students can easily access their attendance records on-the-go. Furthermore, we have introduced a dedicated "My Excuses" button that redirects users to a separate page. On the "My Excuses" page, students can view their past excuses and utilize the provided "Upload Excuse" button to submit new excuses directly to the Students Affairs department. This streamlined process simplifies the management of attendance and excuses, ensuring a more efficient and user-friendly experience for KFUPM students.

**Upcoming Events Page:** Within the KFUPM student app, the Upcoming Events page offers a comprehensive overview of the latest events organized by student clubs. This feature allows students to stay updated on the vibrant campus life and engage in various activities. Each event on this page includes detailed information such as the registration link, target audience, duration, and location. Additionally, we have incorporated a filter option that enables users to easily identify events based on gender-specific participation requirements (males or females) and distinguish between in-person and online events. This thoughtful implementation ensures that students can efficiently explore and participate in events that align with their interests and preferences.

**GPA Calculator:** The GPA calculator page within the KFUPM student app offers a valuable tool for students to effortlessly calculate and anticipate their Grade Point Average (GPA). With this feature, students can conveniently input their course grades and credit hours to obtain an accurate GPA calculation..

**KFUPM ID page:**

This page contains a digital student ID copy.

**Side Panel:**

This page contains widgets for some additional services. Most of these services are already in the actual application. However, we added an additional service: The university’s map. This is a simulated image of the university’s buildings and landmarks. Also, in the “important contacts“ widget, we added some additional contacts that a student might need.