



**UNIVERSITI MALAYSIA TERENGGANU**

**ASSIGNMENT 1**

**(DEVELOPING THE UNIVERSITY MOBILE APPS PROTOTYPE)**

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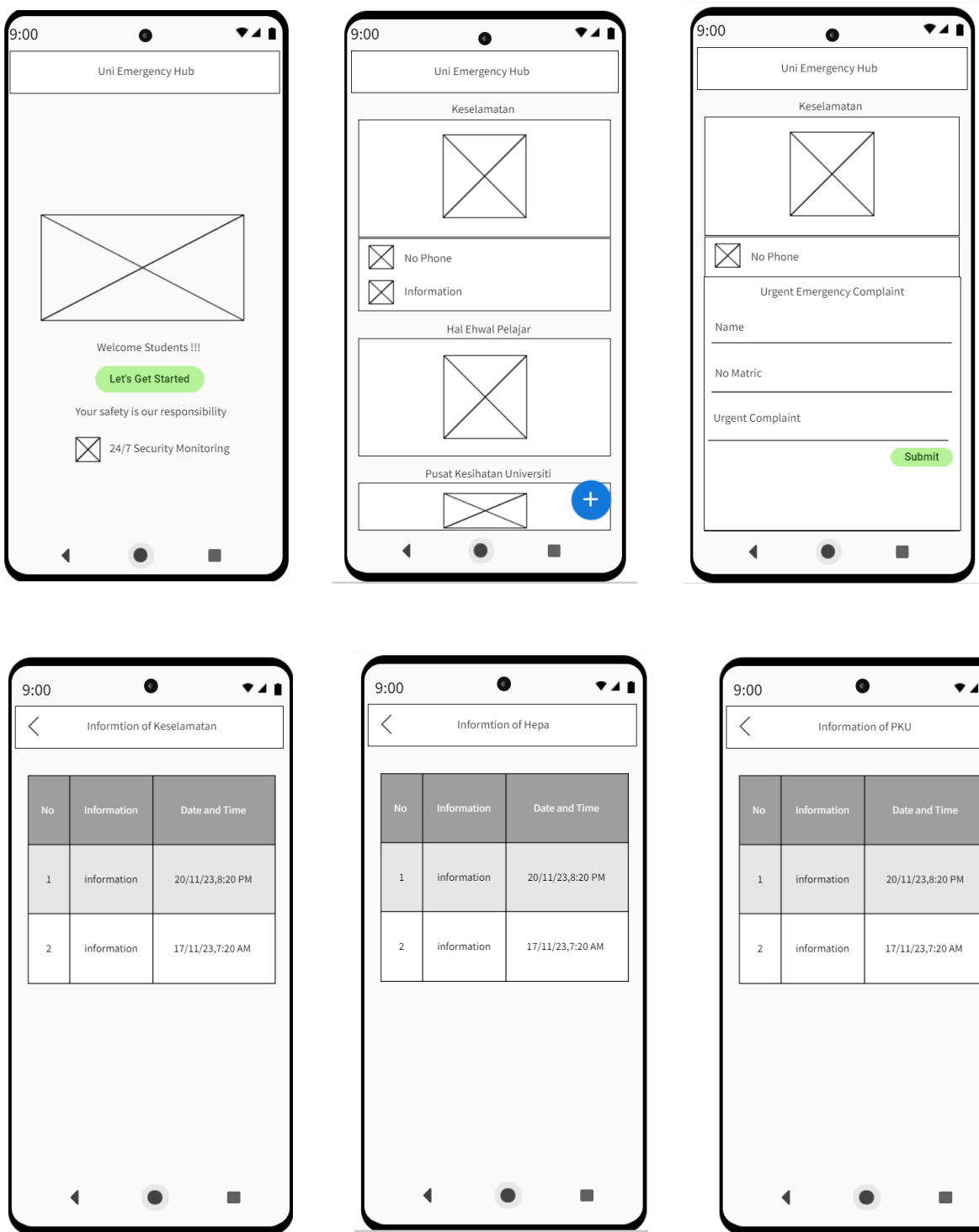
## **Executive Summary of the Prototype**

The "Uni Emergency Hub" application is a crucial tool designed to enhance campus safety and elevate emergency response capabilities within the university community. The app features a comprehensive directory of emergency contacts, including key entities like campus security, Hal Ehwal Pelajar (HEPA), and Pusat Kesihatan Universiti (PKU), providing users with immediate access to essential information during critical incidents. A standout feature is the Urgent Complaint Emergency Form, offering a user-friendly interface for prompt reporting of emergencies or complaints. Administrators oversee submissions, ensuring efficient dispatch of reported problems to relevant official bodies for resolution.

The platform's strength lies in serving as a centralized communication hub during emergencies. Real-time updates from various university bodies are integrated, facilitating efficient dissemination of alerts, updates, and announcements. This real-time communication system is instrumental in coordinating emergency responses and ensuring prompt delivery of critical information to the university community. The application's meticulous design prioritizes user-friendliness, privacy, and security, aligning seamlessly with existing campus emergency protocols.

In essence, the "Uni Emergency Hub" stands as a robust and integrated solution, addressing various aspects of emergency preparedness and response. By enhancing communication, coordination, and safety within the university community, the application plays a significant role in creating a secure and responsive campus environment. Its comprehensive features and user-centric design underscore its importance as a key component in the university's overall emergency response plan, safeguarding the well-being of students, faculty, and staff.

# The Prototype Design



## The UI for the application

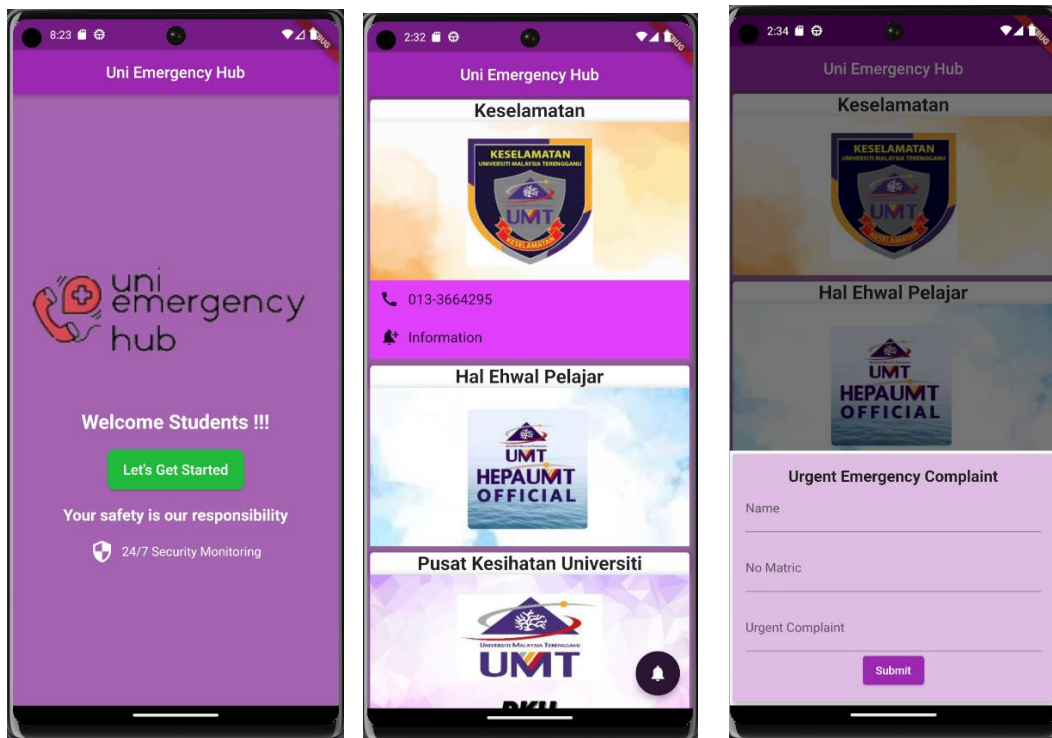


Figure 1

The University Responsible Body User Interface, depicted in Figure 1, streamlines user experience by providing easily accessible contact details for entities like Keselamatan UMT, Hal Ehwal Pelajar (HEPA), and Pusat Kesihatan Universiti (PKU). Users can expand information with a touch-trigger, revealing phone numbers and icons. A floating action button enhances accessibility by serving as a central hub for additional functionalities. This design prioritizes user convenience, intuitive navigation, and efficient access to vital university-related information. Next, illustrates the Urgent Emergency Complaint interface, accessed through the floating action button. This dedicated form simplifies the process for users to report urgent complaints promptly, featuring essential fields such as Name, Matric Number, and a description of the complaint. The streamlined design ensures a straightforward means for users to communicate urgent matters, contributing to a swift and effective response to emergency situations within the university environment.

The figure consists of three side-by-side mobile app screenshots. Each screenshot shows a purple header bar with a back arrow and a title. Below the header is a table with three columns: 'No', 'Information', and 'Date and Time'. The background of the app is a solid purple color.

No	Information	Date and Time
1	Info Banjir:- Pintu Pagar Utama masih dibuka	20/11/2023 8:20 PM
2	Info Banjir:- Semua pelajar hendaklah tidak bermain air banjir ketika ini	17/11/2023 12:20 PM

No	Information	Date and Time
1	Info Yuran:- Pelajar hendaklah membayar yuran sebelum memasuki dewan peperiksaan	19/11/2023 1:20 PM
2	Info Subjek:- Semua pelajar tahun 1 telah didaftarkan subjek asas bagi setiap program	2/10/2023 11:30 PM

No	Information	Date and Time
1	Info Kesihatan:- Semua pelajar hendaklah melakukan pemeriksaan kesihatan berkala di PKU	10/11/2023 5:20 PM
2	Info Kesihatan:- Pemeriksaan gigi di PKU bagi semua warga UMT adalah percuma	2/10/2023 11:30 PM

Figure 2

In Figure 2, the user interface presents real-time update information from the responsible bodies Keselamatan, Hepa, and PKU within the university. The displayed attributes include a unique identifier (No), detailed information regarding the updates, and the corresponding date and time of each piece of information. The UI is designed for clarity and immediacy, allowing users to stay informed about the activities and announcements from these key entities. To facilitate seamless navigation, a back button is provided, enabling users to return to the previous page effortlessly. This intuitive design ensures that users can access and digest the latest information from university responsible bodies while maintaining a user-friendly and responsive experience.

## **Potential Commercial Value and The Pricing of The Prototype**

The "Uni Emergency Hub" application presents a compelling proposition with its potential to address a critical need for improved safety and emergency response within university campuses. Its distinctive features, such as real-time communication with security personnel, centralized emergency information, and data-driven insights, contribute significantly to the overall safety and well-being of the university community. As educational institutions increasingly prioritize compliance, risk mitigation, and efficient communication during emergencies, the application emerges as a valuable asset, offering a comprehensive solution tailored to the unique challenges faced by universities.

In crafting a strategic pricing approach, several factors merit consideration. A tiered pricing structure allows for flexibility, offering basic features at a lower cost and more advanced functionalities in higher-tier plans. Licensing fees, dependent on the number of users or institutions, can accommodate varying scales of implementation, ensuring larger universities contribute proportionally to the value received.

Implementing a subscription model not only secures a steady revenue stream but also provides ongoing support and updates, fostering a long-term relationship with clients. Additionally, offering pilot programs to select universities at discounted rates not only aids market penetration but also facilitates the collection of valuable feedback and testimonials, bolstering the application's credibility and market presence.

By aligning its pricing strategy with the unique value proposition and market dynamics, the "Uni Emergency Hub" prototype can position itself as a competitively priced and indispensable tool, resonating strongly with universities committed to enhancing campus safety.

## **Lesson Learned**

The process of creating this application has imparted valuable lessons, showcasing a comprehensive understanding and utilization of various Dart language widgets. Notably, the implementation of widgets such as `ListBuilder`, `Expanded`, and the navigation functionality to transition between pages, both forward and backward, has been a key learning outcome. Additionally, the adept use of a bottom sheet to construct a form, seamlessly accessible through the floating action button, reflects proficiency in interface design. The meticulous organization of models, widgets, and the main Dart file underscores a structured and modular approach to code development. This experience has not only honed skills in widget utilization but also emphasized the importance of code organization for enhanced readability and maintainability in Dart-based application development.

## **Conclusion**

In conclusion, the "Uni Emergency Hub" application emerges as a valuable solution addressing critical safety and emergency response needs within university campuses. With its unique features and potential for customization, the application stands at the forefront of campus safety technology, offering real-time communication, centralized emergency information, and data-driven insights. The commercial value is evident as universities increasingly prioritize compliance, risk mitigation, and efficient communication during emergencies. The strategic pricing model, incorporating tiered structures, user licensing, and subscription models, ensures flexibility and affordability for diverse institutions. As the prototype positions itself competitively in the market, its potential to become an indispensable tool for universities seeking to enhance their safety measures is promising. Ultimately, the "Uni Emergency Hub" has the potential to redefine and elevate the standards of campus safety technology, making it an integral component of the modern university landscape.



## References

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