**Report: Tus Parking Mobile Application**

**Introduction**

The purpose of this report is to outline the development and features of the "Tus Parking" mobile application, designed to enhance the parking experience for students at Tus. The app aims to provide a convenient solution for students to find, book, and pay for parking spots on campus

**Application Overview**

**1. Name: Tus Parking**

The chosen name reflects the app's primary function, focusing on providing a streamlined parking experience for Tus students.

**2. Features**

**2.1 User Authentication**

The application begins with user authentication, ensuring secure access to the features. Students can log in using their credentials, creating a personalized experience.

**2.2 Location Services**

Upon logging in, the app directs users to Google Maps, leveraging location services for easy navigation and parking spot selection.

**2.3 Search and Selection**

Users can search for parking locations within the Tus campus. The app displays available parking spots, allowing students to choose the most convenient location based on their needs.

**2.4 Booking and Payment**

Once a parking spot is selected, the app facilitates booking and payment processes. Students can make secure payments through the app to reserve their chosen spot.

**Development Challenges**

Throughout the development process, several challenges were encountered, with a notable issue arising during the transition from design to implementation.

**Figma to Android Studio Integration**

The design of the app was initially created using Figma, a versatile design tool. However, exporting the design from Figma to Android Studio posed challenges. The integration process required careful consideration of design elements, resulting in some discrepancies.

To address this issue, a thorough review of the design components was conducted, and adjustments were made during the implementation phase. While the transition was not seamless, the final result successfully retained the core design principles.

**Conclusion**

The Tus Parking mobile application is a promising solution to simplify the parking experience for students. By leveraging location services, intuitive interfaces, and secure payment methods, the app aims to enhance convenience and comfort for Tus students.

The challenges encountered during the development process served as valuable learning experiences. The need for meticulous attention to detail during the design-to-implementation phase was highlighted, ensuring a more robust integration of Figma designs into Android Studio in future projects.

The Tus Parking app is poised to contribute positively to the daily lives of students, providing an efficient and user-friendly solution to parking on campus.