Group number: 5

Group members:

1. Jaydip Kalkani (8869483)
2. Siyu Liu (8859412)
3. Meng Wang (8877824)

What is the App About?

Our final group project revolves around creating an innovative application for the Android Wear ecosystem. Titled "Car Parking Locator," our app aims to address a common need among users by providing a convenient solution for remembering and navigating to parked car locations. This project highlights the practical application of wearable technology, showcasing its potential to enhance user experience in everyday scenarios. Through this endeavor, we seek to demonstrate the versatility and utility of wearable devices in facilitating tasks such as car parking management.

What is the App About?

1. Mark Current Location: Users can effortlessly mark their current parking spot with a custom label (e.g., "Car X or beside black car or white oaks mall") directly from their Wear OS device. This feature ensures that users can easily remember where they parked their car, even in busy parking lots or unfamiliar locations.
2. List of Parking Locations: The app maintains a comprehensive list of all parking locations marked by the user. This list is easily accessible from the wearable device, allowing users to view and manage their parking history conveniently.
3. Map Integration: Integration with google map enables users to navigate back to their parked car seamlessly. By simply tapping on a parking location from the list, the app opens the map with directions, guiding users to their parked car efficiently.
4. Additional functions: If the user's vehicle has a Bluetooth system and supports it, our application also provides a smart parking method as a supplement to manually recording the parking location. When the user parks the car and turns off the vehicle so that the Bluetooth connection of the watch or mobile phone is disconnected, the GPS location information when the car engine is turned off is automatically recorded. This feature is intended for user convenience and does not provide any guarantee.

What Will be the Outcome?

The outcome of our "Car Parking Locator" app aims to simplify and streamline the daily task of managing parked car locations, thereby enhancing user convenience and reducing stress associated with forgetting where one's car is parked. By leveraging the capabilities of wearable technology, our app offers a practical solution to a common problem faced by individuals in urban environments, busy shopping centers, or large parking lots.

How Will You Assign Tasks Among the Group Members?

In our group, we've devised a clear strategy for task delegation and collaboration to ensure the successful execution of our project. Each member has been assigned specific roles and responsibilities based on their skills and expertise:

1. Siyu Liu: Siyu will be responsible for generating attractive, responsive UI designs tailored for circle and square wearables. Using tools like Figma, Siyu will ensure that the app's interface is visually appealing and easy to use, enhancing the overall user experience.
2. Jaydip Kalkani: Jaydip will take charge of setting up the Android Wear project and writing the code for all screens and their respective user actions. With Jaydip's coding proficiency, we trust that he will implement the app's functionalities seamlessly, ensuring smooth navigation and interaction for users.
3. Meng Wang: Meng will focus on writing utility code files related to database operations, particularly handling CRUD operations for local data storage. By efficiently managing the app's data storage and integration, Meng will ensure that users can reliably access and manage their parking history.

To facilitate effective communication and collaboration, we have established a Microsoft Teams channel dedicated to our project. This platform allows us to communicate in real-time, share updates, and discuss any issues or concerns that may arise during the development process.

In addition, we will utilize Trello as our project management tool. Trello provides a visual overview of tasks, allowing us to track progress, assign responsibilities, and monitor deadlines. With Trello, team members can easily access task lists, update task statuses, and collaborate seamlessly, promoting cohesion and productivity within the group.