

Deliverables - Team 5 MW1

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User Requirements (outline definition of important characteristics of system focused on UI)

- The application must be able to run on a mobile platform.
- The count of available parking spaces must be presented to the user when looking at the various parking decks.
- Available parking spaces must be able to be reserved by a user.

System Requirements (description of system's functionality, services, operational constraints)

- A connection to a database for all parking decks and spaces must be well established.
- The system must be able to handle up to 500 users at a time.
- Updates to the count of available spaces must be efficient and quick. (***It is possible to put a certain reaction time right here.***)

Risk Analysis

- **Risk Situation:** Inexperience with Flutter and GPS API
 - **Mitigation:** Learn and train with these platforms to gain a better understanding and capability.
- **Risk Situation:** Inexperience with Android and app development
 - **Mitigation:** Run a mock-up using web pages to simulate the application.
- **Risk Situation:** Possible overflow of users trying to access the same data table at once
 - **Mitigation:** Create child tables of the overall parent database table of parking spaces that will allow for user interaction and allow for concurrent users to access the available spaces. These would then request to edit the parent table that would update the other child tables. (Priority would be awarded to the earliest time stamp.)