CS380​ ​Group​ ​Project:​ ​Zach​ ​Reiss,​ ​Joe​ ​McGee,​ ​Sean​ ​McGrath

Synopsis:

I​ ​would​ ​like​ ​a​ ​system​ ​that​ ​can​ ​keep​ ​track​ ​of​ ​parking​ ​spots​ ​in​ ​the​ ​commuter​ ​lot​ ​at Oswego.​ ​The​ ​goal​ ​of​ ​this​ ​system​ ​is​ ​to​ ​optimize​ ​student​ ​time​ ​and​ ​experience​ ​at​ ​Oswego.​ ​The total​ ​number​ ​of​ ​parking​ ​spots​ ​should​ ​be​ ​kept​ ​track​ ​of,​ ​incrementing​ ​and​ ​decrementing​ when cars​ ​enter​ ​and​ ​exit​ ​the​ ​lot.​ ​This​ ​should​ ​be​ ​kept​ ​track​ ​of​ ​with​ ​the​ ​use​ ​of​ ​both​ ​an​ ​app,​ ​and​ ​a screen​ ​in​ ​front​ ​of​ ​the​ ​lot​ ​​ ​to​ ​notify​ ​students​ ​of​ ​availability​ ​of​ ​spots.​ ​There​ ​should​ ​be​ ​a​ ​feature​ ​that will​ ​allow​ ​cops​ ​to​ ​enter​ ​and​ ​exit​ ​without​ ​affecting​ ​the​ ​total.​ ​There​ ​should​ ​also​ ​be​ ​a​ ​feature​ ​which allows​ ​people​ ​to​ ​enter​ ​the​ ​lot​ ​to​ ​pick​ ​somebody​ ​up,​ ​and​ ​then​ ​leave.​ ​Ability​ ​to​ ​reserve​ ​parking spots​ ​should​ ​also​ ​be​ ​available.

|  |  |  |
| --- | --- | --- |
| Identifier | Priority | Requirement |
| REQ1 | 3 | The interface shall display if parking spots are available to reserve, and if so where they are. |
| REQ2 | 2 | The interface will record names, license plates, parking permit number, and where they park. |
| REQ3 | 2 | The system will know when a reservation date and time are free to reserve |
| REQ4 | 2 | An admin will be able to create and delete parking lots |
| REQ5 | 1 | An admin will have full access to the reservation system information |
| REQ6 | 5 | The system shall be accessible through the interface, through which reservations can be made. |
| REQ7 | 2 | The police shall have access to reservation information. |
| REQ8 | 5 | The system shall ask a user when they will arrive and depart and store an approximate of this information for the purposes of the reservation. |
| REQ9 | 1 | The system allows users to alert police of a parking spot in misuse |

|  |  |  |
| --- | --- | --- |
| Identifier | User Story | Size |
| ST-1 | As a user, I have access to the number of available spots via the interface | 2pts |
| ST-2 | As an admin I have full access to all reservation information | 3pts |
| ST-3 | As an admin I can create and delete parking lots | 1pt |
| ST-4 | As an admin I can remove an existing reservation | 2pts |
| ST-5 | As a cop, I have access to the reservation information | 2pts |
| ST-6 | As a user, I can reserve a parking spot up to a month ahead of time | 8pts |
| ST-7 | As a user, I can access the interface to reserve a spot or check how many spots there are available at a certain date and time | 4pts |
| ST-8 | As a user using the interface I can alert the police when a spot is wrongly in use | 3pts |