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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.

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| Identifier | Priority | Requirement |
| REQ1 | 3 | The interface shall display if spots are available, and if so where they are. |
| REQ2 | 5 | The interface will record license plates, parking pass number, and where they park. |
| REQ3 | 2 | The system shall know when to decrement the number of available spots based on time of reservation. |
| REQ4 | 2 | The system shall know when to increment the number of available spots based on time of reservation |
| REQ5 | 1 | The system shall stop decrementing the number of spots once it reaches zero. |
| 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 | 3 | The system shall ask a user when they will arrive and depart and store this information for the purposes of incrementing and decrementing. |

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| Identifier | User Story | Size |
| ST-1 | As a user, I can see the number of available spots via the interface | 2pts |
| ST-2 | The amount of spots should be decremented when a vehicle is scheduled to arrive | 3pt |
| ST-3 | The amount of spots should be incremented when a vehicle is scheduled to leave | 3pt |
| ST-4 | As a cop, I should have the reservation information sent to me | 1pts |
| ST-5 | As a user, I can reserve a spot ahead of time | 8pts |
| ST-6 | As a user, I can access the interface to reserve a spot or check how many spots there are available | 4pts |
| ST-7 | As a user I can call the police to the lot from the interface when a spot is wrongly in use | 3pts |