Parking Management System

Sabuk Gichuiya, Kyle Godfrey, Nikos Koufos, Ian Thompson, Brett Spangler

Needs and Objectives

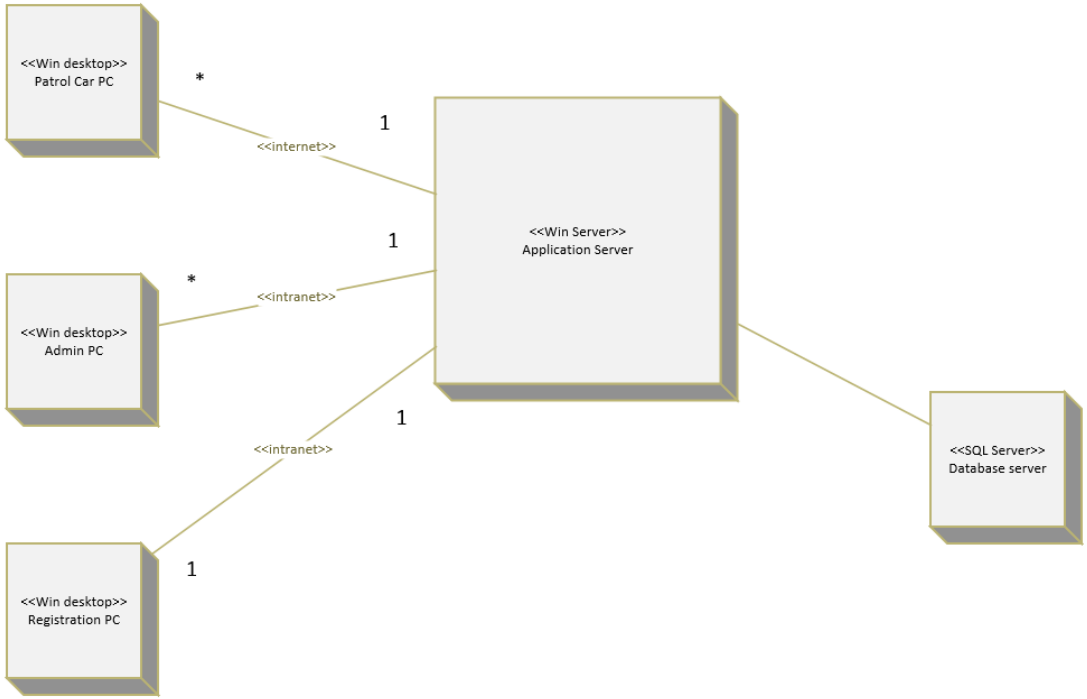
The overall objective of this project is to assist students, police services, and school administrators to manage campus parking.

The software will need to implement a database, multiple UI frontends, and be able to generate various reports.

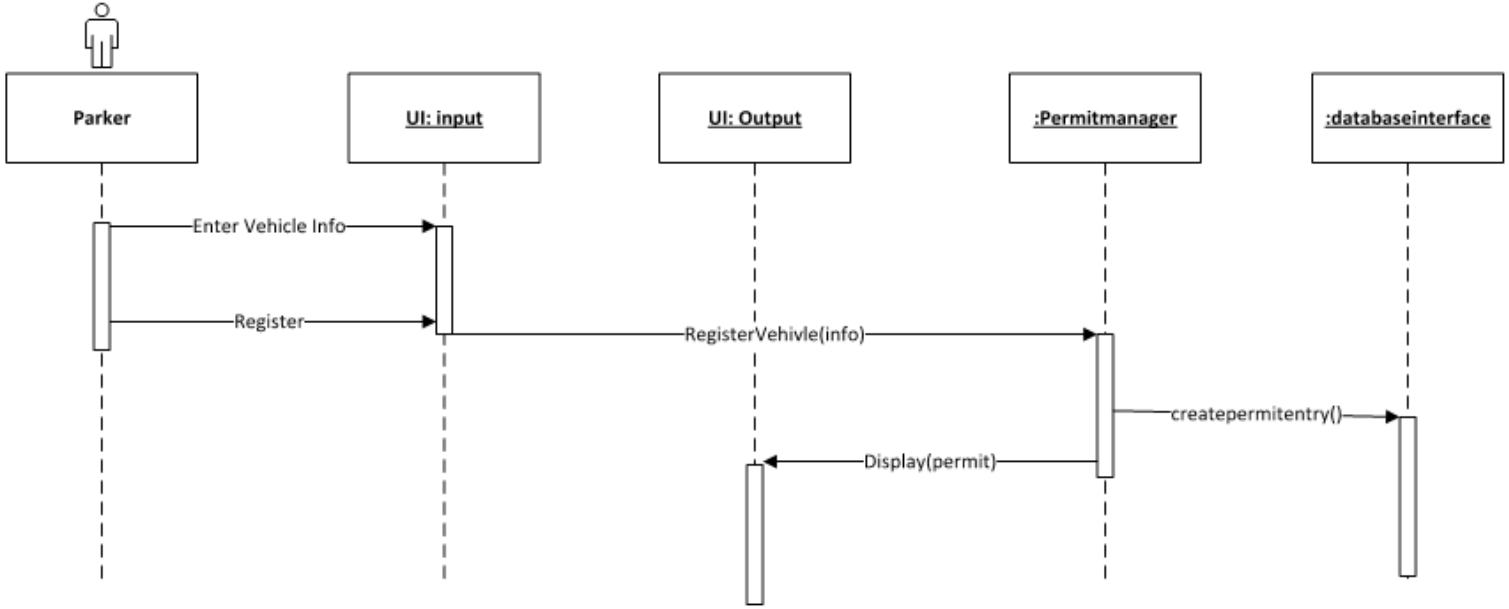
System Features

- Features the ability for users to register their vehicles on a kiosk and purchase a parking pass, their vehicle is then stored in a SQL database
- Ticketers will be able to query the database to see if a parking pass is registered, they will also be able to generate and print a ticket all from the client
- Off site users(administrators) will be able to generate reports based off any of the given criteria, relay important information such as number of tickets, revenue, etc to the university. As well as generate a report for unseen license plates to be sent to the DMV

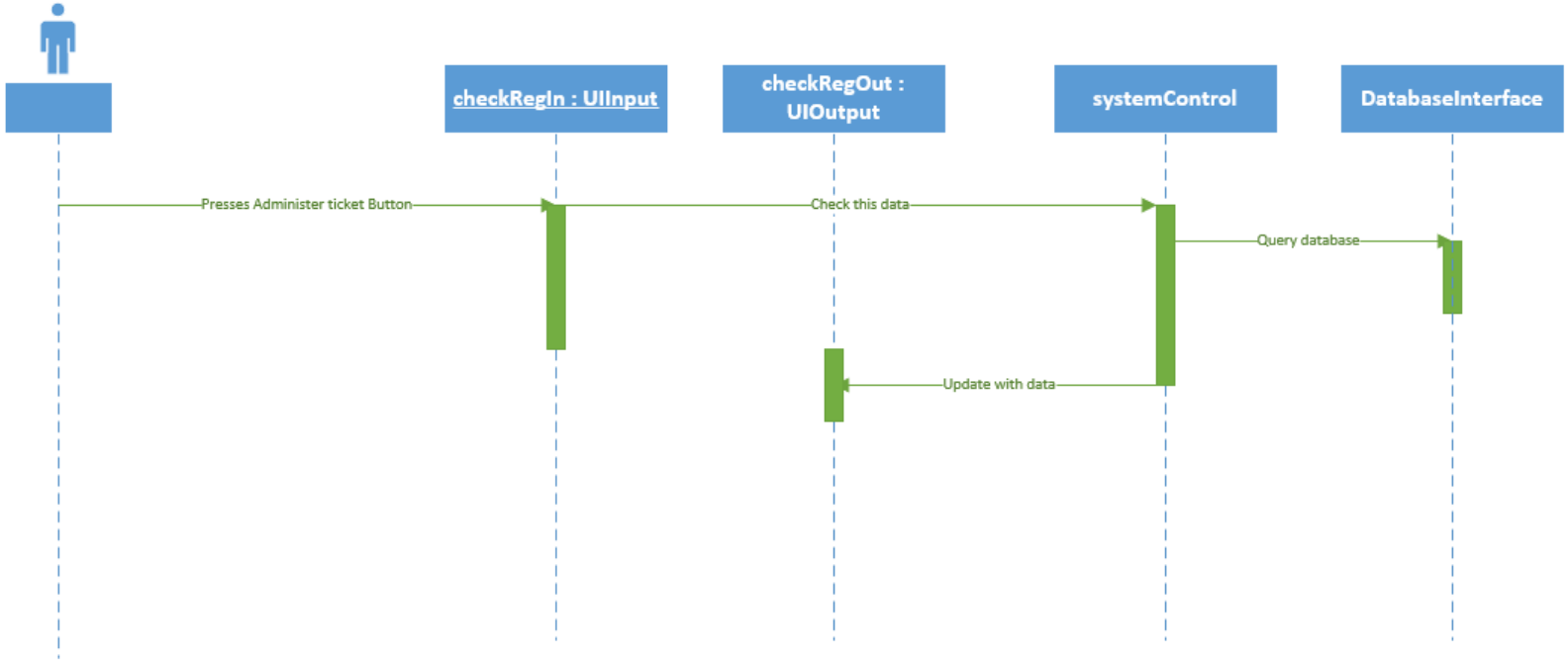
System Architecture Design



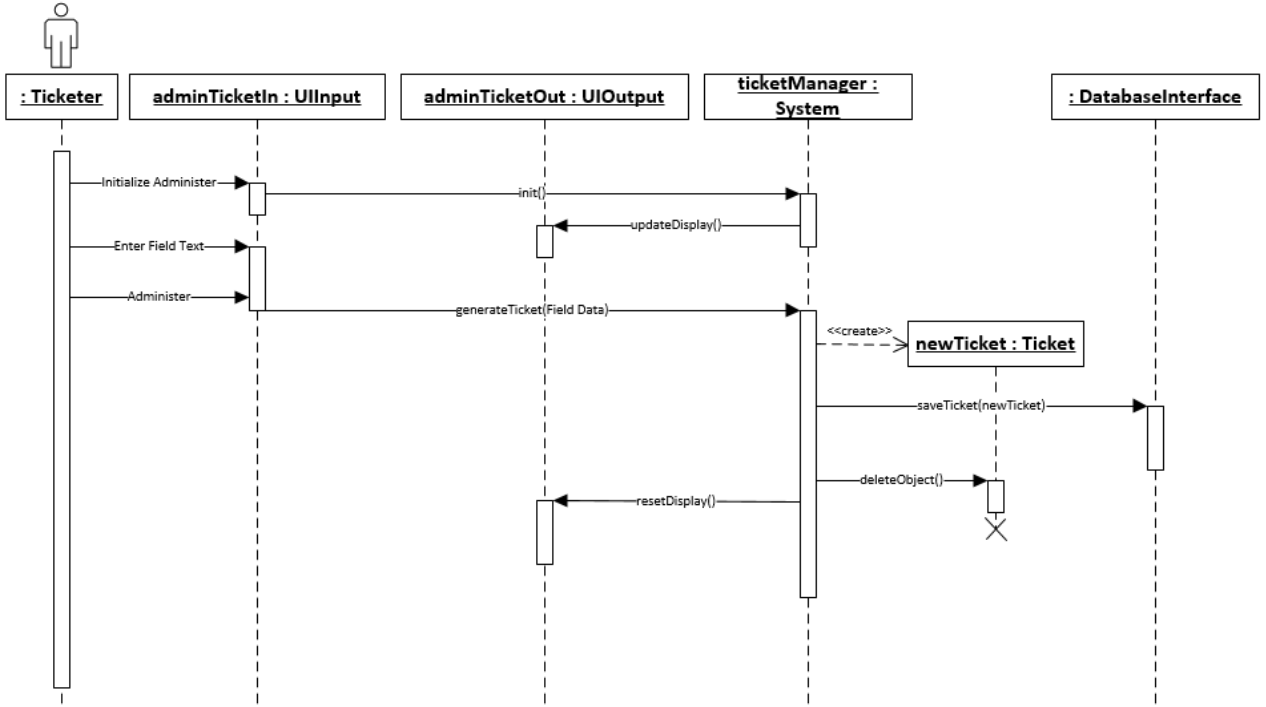
Sequence Diagrams: Register Parking Pass



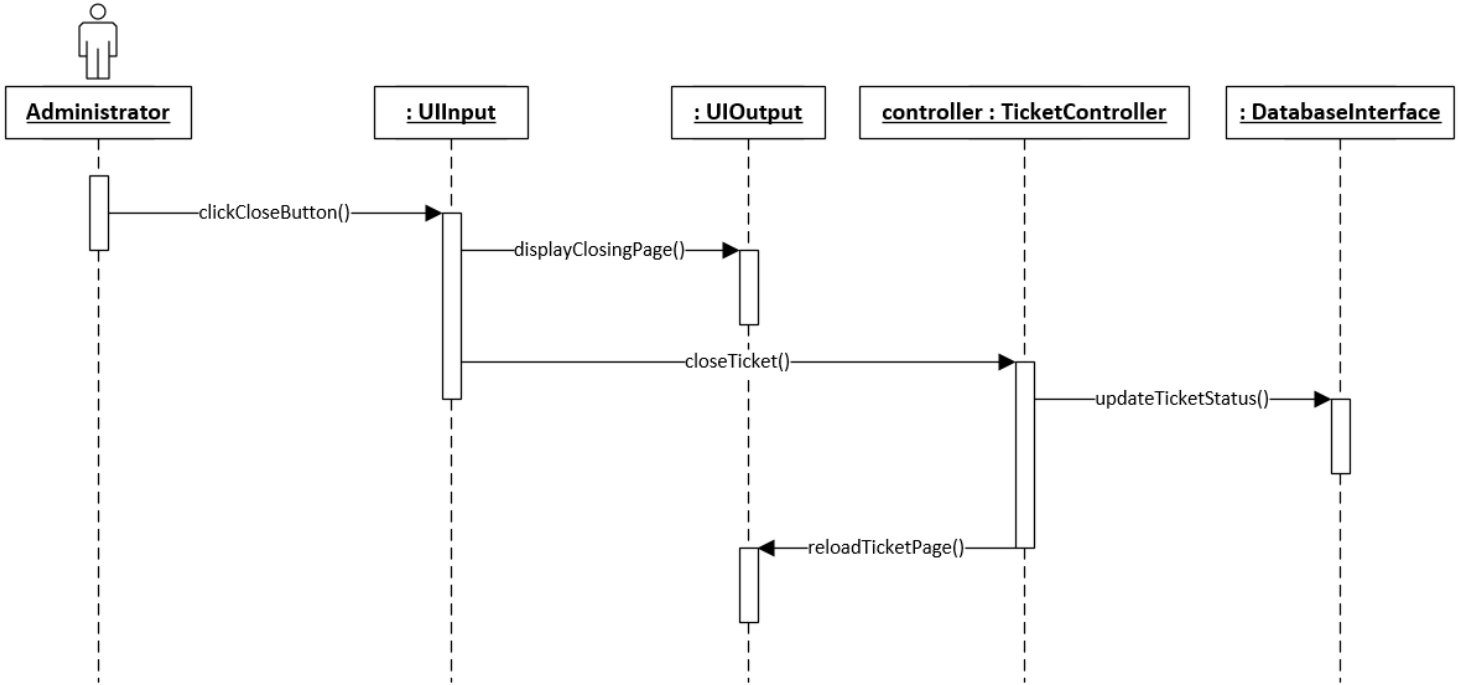
Sequence Diagrams: Check Registration



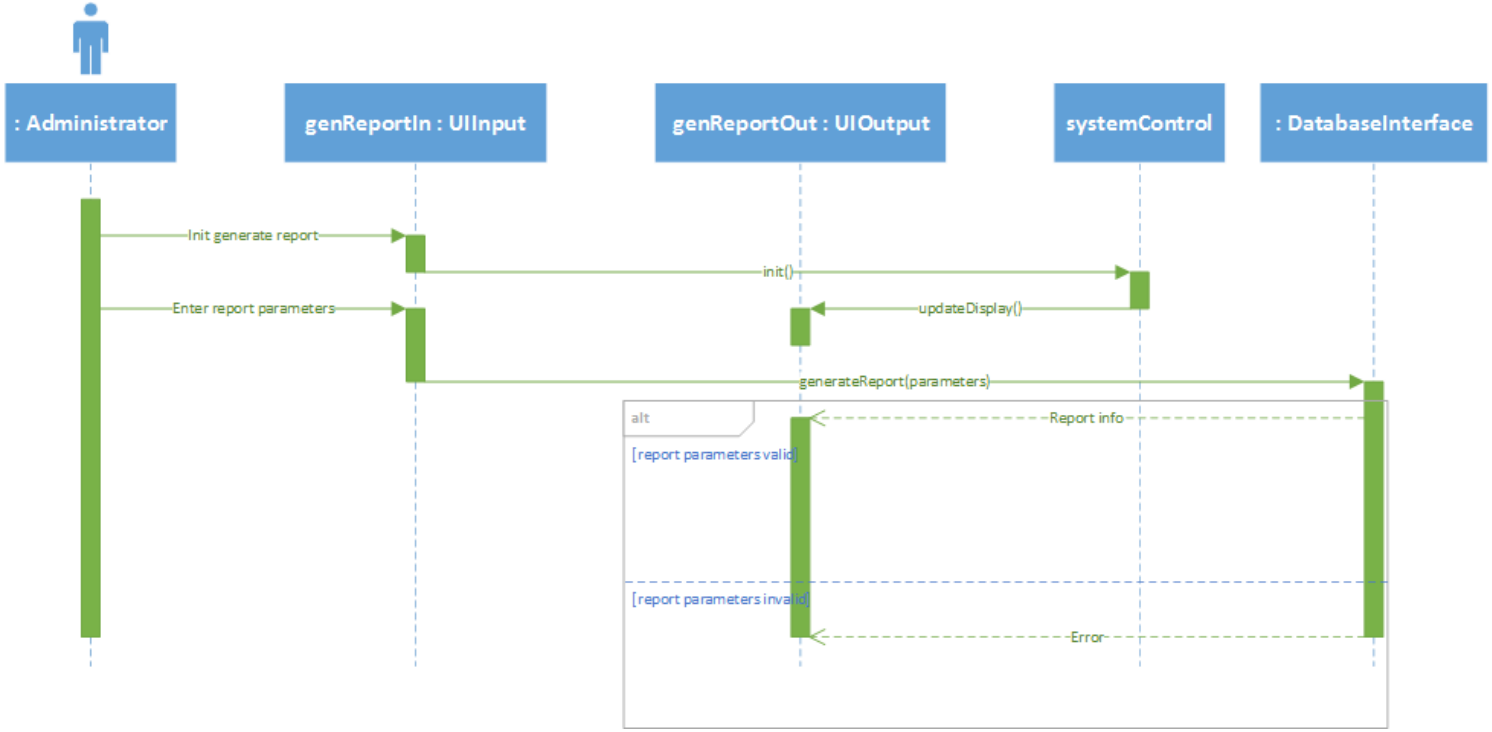
Sequence Diagrams: Administer Ticket



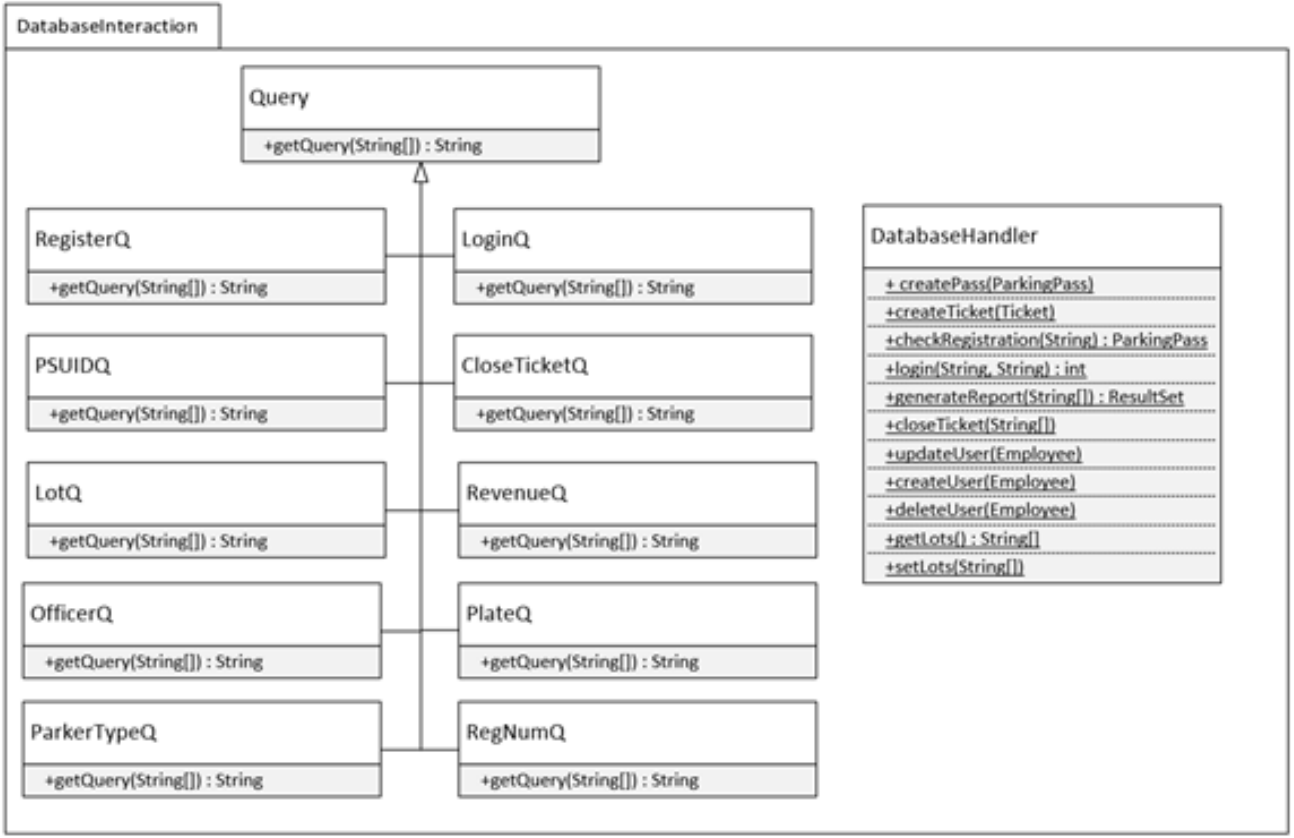
Sequence Diagrams: Close Ticket



Sequence Diagrams: Generate Report



Class Diagram



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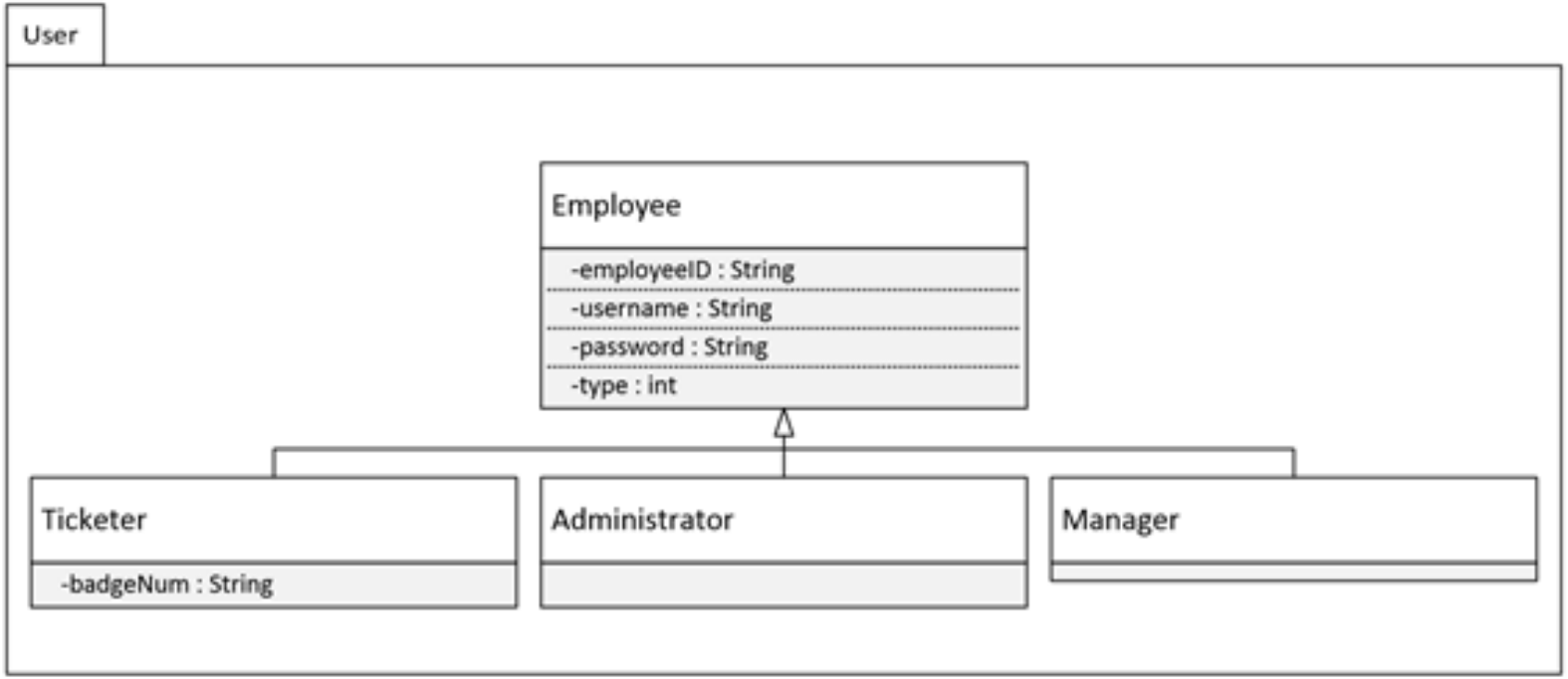

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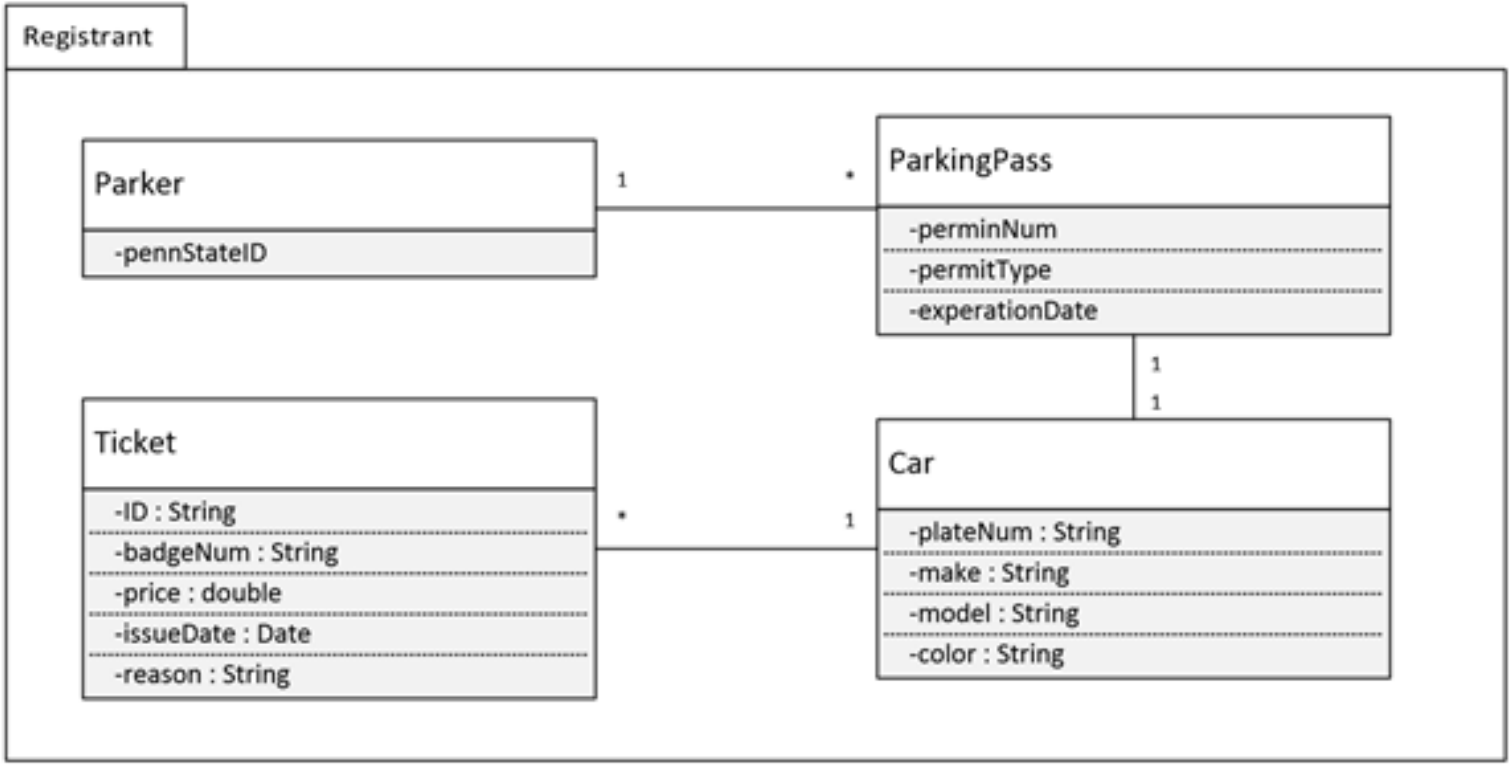
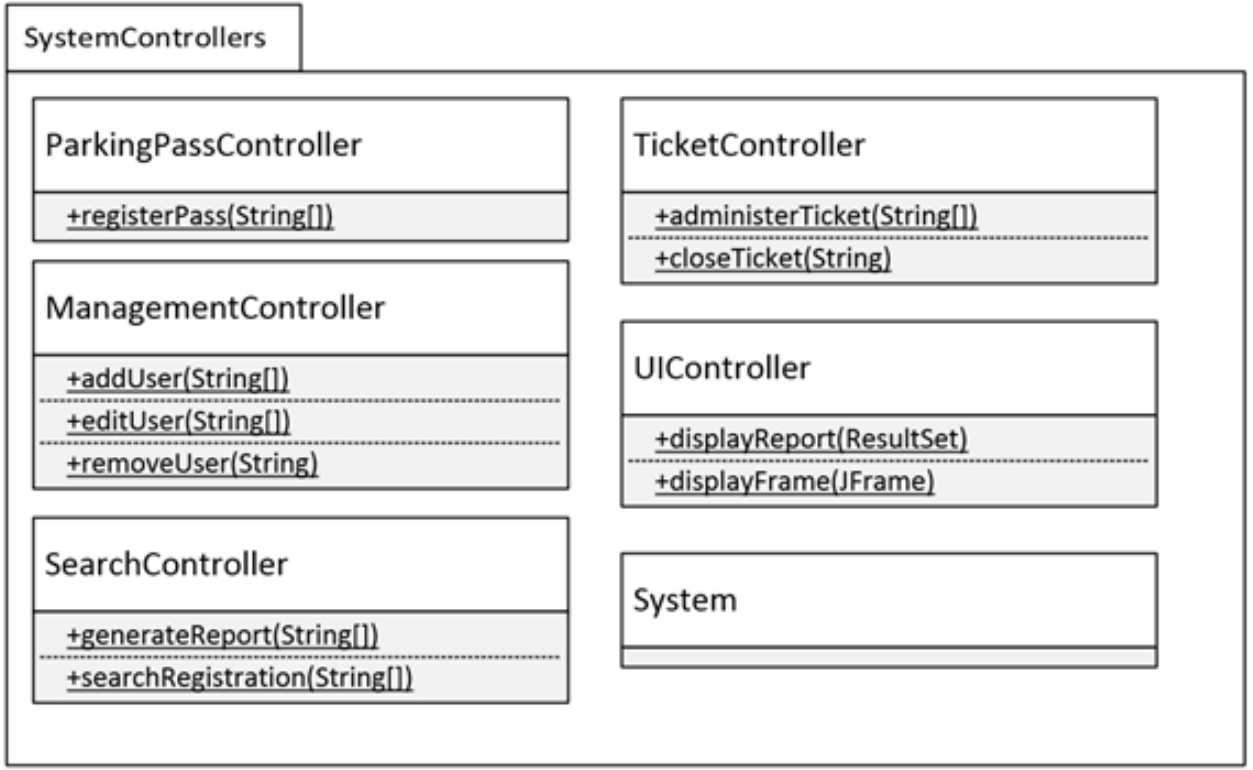
Class Diagram