Software Design Description Template

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# Introduction

## Overall Description

*Rent-it* is a rent-a-car company and needs to have a system developed.

## Purpose of this document

This document describes the software architecture and implementations to show how the system will be made. This document will also help developers implement the necessary functions to make the system function as a whole.

## Definitions, acronyms, and abbreviations

|  |  |
| --- | --- |
| Term | Description |
|  |  |

# Architectural Overview

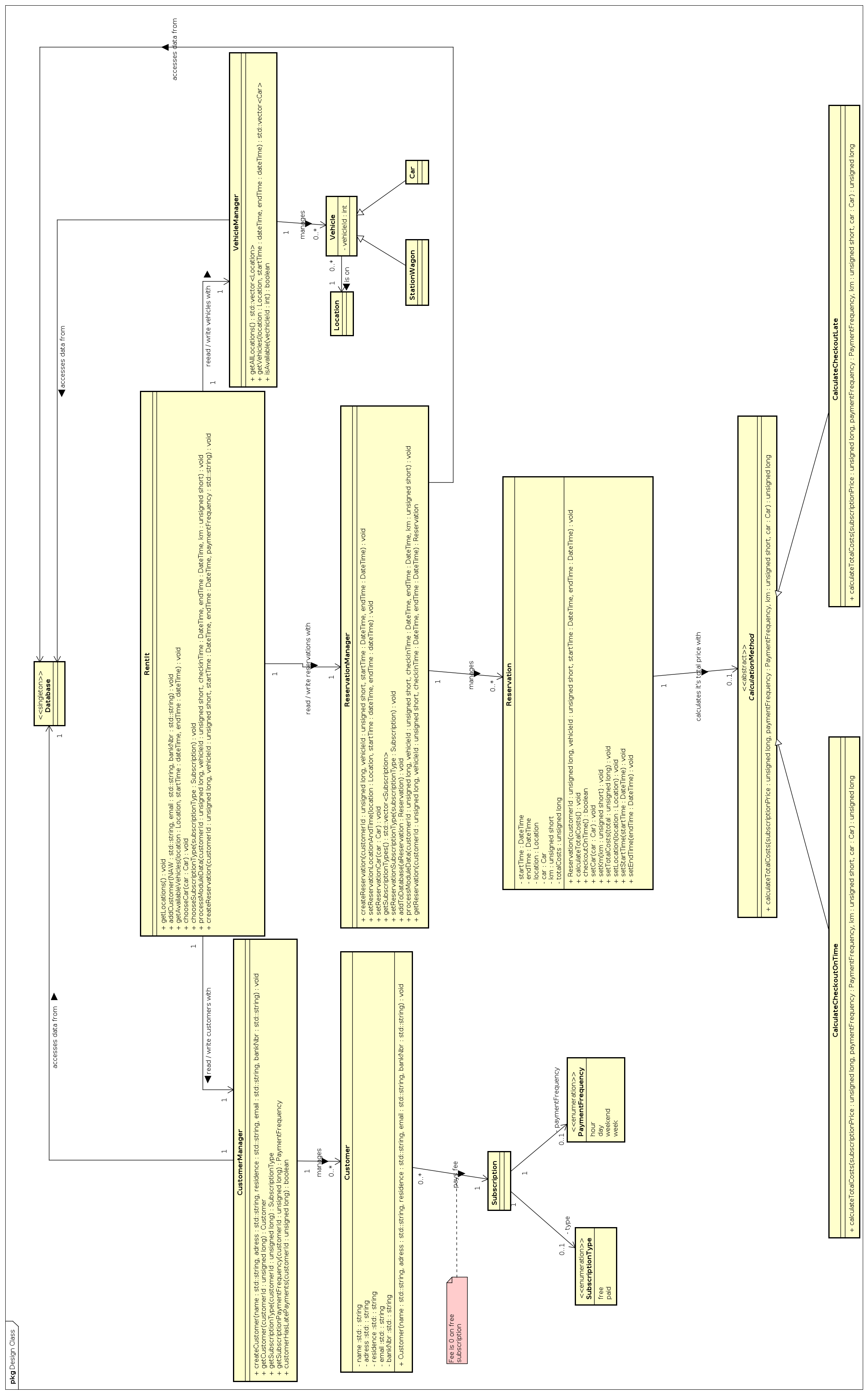
TODO: Component diagram here

<Provide a high level overview of the architectural design, for instance by means of an architectural sketch. Make sure you show at least all sub-systems, and links to external systems. The sketch can be informal. The use of UML is not required.>

# Detailed Design Description

## Design Rent-it

### Design Class Diagram



### Sequence Diagrams

<Provide sequence diagrams for major object interactions within the sub-system. It is ok if sequence diagrams cross sub-system boundaries. Make sure you explain this in the description of the diagram. Sequence diagrams must be consistent with the class diagrams described above. Also, if sequence diagrams cover interaction with users, make sure the diagrams are consistent with SDDs you may have documented as part of the SRS.>

### Activity and State Diagrams

<This section is optional. If useful, provide activity and/or state diagrams to describe complex work flows and system state transitions>

### Design decisions made for the sub-system

<Describe all design decisions made for the sub-system. Provide at least decision descriptions for all frameworks, libraries and other technologies used. Other decisions may be related to software patterns, system-structure, adapted principles or the like.>

## Design Sub-System B (and so on)

…

## Database Design

<. If your system uses relational databases, make sure you provide a physical datamodel here.>

### Design decisions related to the database

<Describe all design decisions made along the database. This could include the choice of the database management system, the use of certain triggers or stored procedures, special indexes and so on.>