# Team

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# Document Purpose and Audience

* The goal of this project is to create a Parking Garage application that enable users to park in easily and staff to do their tasks without errors and save information which they need to save so that they can start their work and complete it. We aim to accomplish this within this term so after finishing the customer can read this document and understand it.
* this document will show what's our system and what's App scope and the functions which the system will do.
* our audience is the customer and another people who will review this project.

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# System Models

## I. Class diagrams

Diagram, schematic

Description automatically generated

| **Class ID** | **Class Name** | **Description & Responsibility** |
| --- | --- | --- |
| 1 | vehicle | This class is inherited from the parent class, and it take the information of each vehicle. |
| 2 | Garage space | Specify the space of each garage  calculate the vehicle's space and total space. |
| 3 | park | This class is an abstract class, it calculates the stay time of each vehicle base on the arrival time and departure time, calculate the parking fees, calculate the total income, paying and num of vehicle. |
| 4 | Park in | This class is composition from the abstract class park  Specify the arrival time of each vehicle and check the number of slots. |
| 5 | Park out | Is a composition from the abstract class park   * specify the departure time of each vehicle. * calculate stay time of each vehicle. * calculate num of vehicle. * calculate the parking fees. * calculate total income. |
| 6 | slot | It is responsible for setting the number of vehicle and the dimension of each vehicle(depth, width). |
| 7 | display | It is responsible for display the available parking slots, stay time of each vehicle and total income. |

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## II. Sequence diagrams

Diagram

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