**Android Parking Booking System.**

**<Search Slot System>**

**TEAM: 9 in SWE, CAUCSE 2021.**

**<Domain Model>**

**# Responsibility**

**UC-1 SearchSlot**

|  |  |  |
| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of all concepts associated with this use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Manage whether the slots are empty or not. | D | CheckEmpty |
| Container for date, time, rental time which customer entered. | K | Time |
| Container for slot’s data, such as location, identifier number, timestamp, etc. | K | Slot |
| Container for map’s data, such as exit, entrance, way, slots, etc. | K | Map |
| Container for customer’s Information. | K | PersonalInfo |
|  |  |  |

**UC-2 SelectTime**

|  |  |  |
| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of all concepts associated with this use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Input the data of time from the user. | D | InputTime |
| Check if the input is correct for the parking lot’s business hours. | D | TimeChecker |
| Container for date, time, rental time which customer entered. | K | Time |
|  |  |  |

**UC-3 ShowSlot**

|  |  |  |
| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of all concepts associated with this use case, a logical grouping of use cases, or the entire system and delegate the work to other concepts. | D | Controller |
| Load the internal map of the parking lot which the customer chose. | D | LoadMap |
| Show the internal map of the parking lot which shows empty slots. | D | ShowMap |
| Container for slot’s data, such as location, identifier number, timestamp, etc. | K | Slot |
|  |  |  |
|  |  |  |

**# Traceability Matrix - Use Case -> Domain Model**

|  |  |  |
| --- | --- | --- |
| **Use**  **case** | **PW** | **Domain Concepts** |
| **UC1**  **UC2**  **UC3**  **UC4** |  |  |