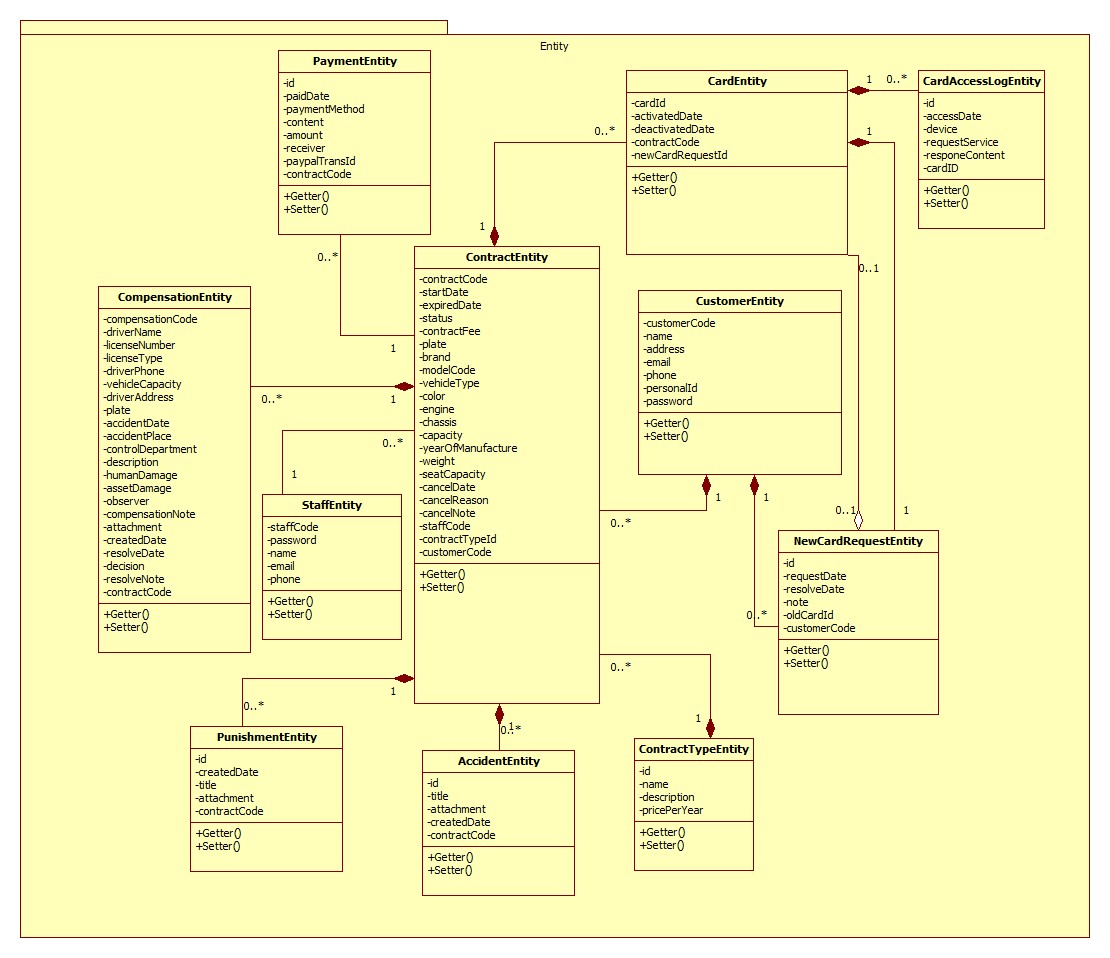
## Detailed Description

### Class Diagram



|  |  |
| --- | --- |
| **Class dictionary: describe Class** | |
| **Class Name** | **Description** |
| PaymentEntity | Contain the payment informations. |
| CardEntity | Contain the card informations. |
| CustomerEntity | Contain the customer informations. |
| ContractEntity | Contain the contract informations. |
| StaffEntity | Contain the staff informations. |
| CompensationEntity | Contain the compensation informations. |
| PunishmentEntity | Contain the punishment informations. |
| AccidentEntity | Contain the accident informations. |
| ContractTypeEntity | Contain the contract type informations. |
| NewCardRequestEntity | Contain the new card request informations. |
| CardAccessLogEntity | Contain the card access log informations. |

### Class Diagram Explanation

PaymentEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
| Id | int | Private | Unique identifier of an payment |
| paidDate | Timestamp | Private |  |
| paymentMethod | String | Private |  |
| content | String | Private |  |
| amount | Double | Private |  |
| receiver | String | Private |  |
| paypalTransId | String | Private |  |
| contractCode | String | Private |  |

CardEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
| cardId | String | Private | Unique identifier of an card |
| activatedDate | Timestamp | Private |  |
| deactivatedDate | Timestamp | Private |  |
| contractCode | String | Private |  |
| newCardRequestId | String | Private |  |

CustomerEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
| customerCode | String | Private | Unique identifier of an customer |
| name | String | Private |  |
| address | String | Private |  |
| email | String | Private |  |
| phone | String | Private |  |
| personalId | String | Private |  |
| password | String | Private |  |

ContractEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
| contractCode | String | Private | Unique identifier of a contract |
|  |  |  |  |

StaffEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

CompensationEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

PunishmentEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

AccidentEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

ContractTypeEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

NewCardRequestEntity

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

CardAccessLogEntity

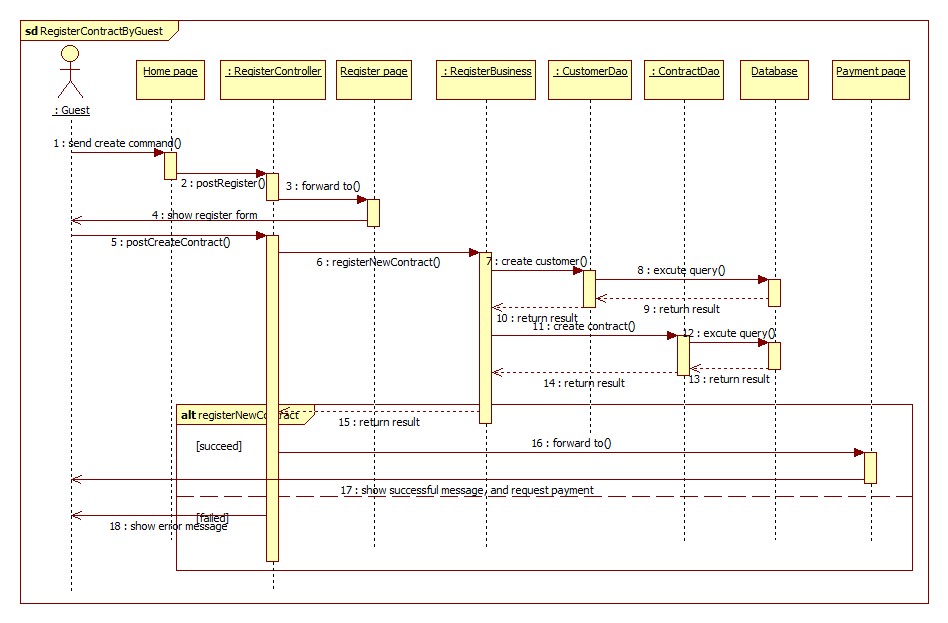
|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Type** | **Visibility** | **Description** |
|  |  |  |  |

### Interactive Diagram

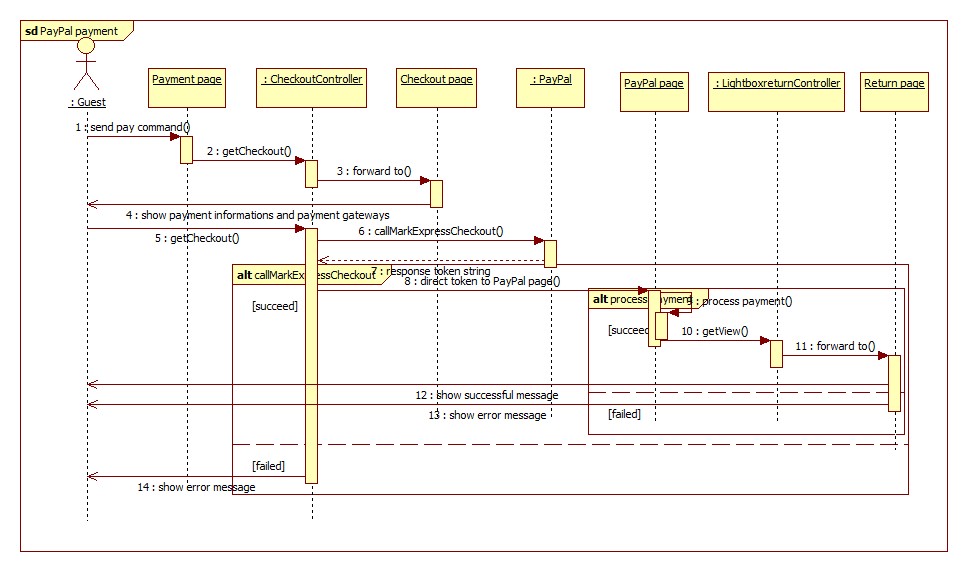
#### Web Application

Guest :

* Register new contract:

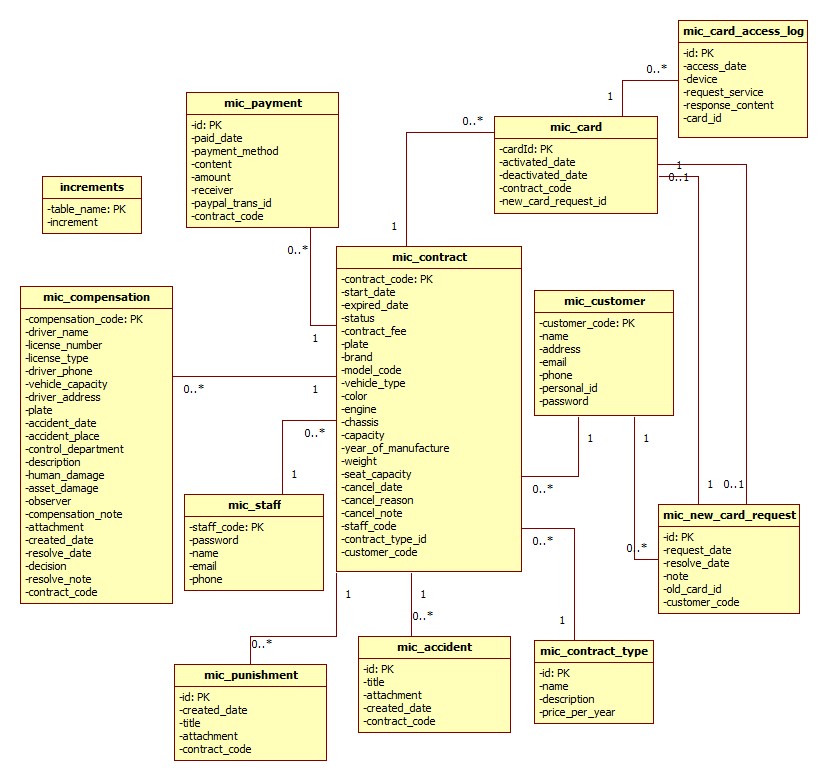


* PayPal payment:



## Database design

### Logical database



### Data Dictionary