**Requirements**

**Behaviors of the Software Application**

List of behaviors contained in this software application.

|  |  |  |
| --- | --- | --- |
| **Actor Name** | **Name of Behavior** | **Description of Behavior** |
| *Write you actor names ( Eg. “User”)* | *Write your behaviours for the related actor. There can be multiple or single behaviors. (Eg. “isLogin()” )* | *Briefly describe the behaviors. (Eg. “Returns result of login process.”)* |
| *…* | *…* | *…* |

### **Attributes of theSoftware Application**

List of attributes contained in this software application.

|  |  |  |
| --- | --- | --- |
| **Actor Name** | **Name of Attribute** | **Description of Attribute** |
| *Write you actor names ( Eg. “User”)* | *Write all the attributes that the related actor has. (Eg. “user\_id)* | *Briefly describe the attributes. (Eg. “Equals id of the user.”)* |
| *…* | *…* | *…* |

### **Performance Requirements**

If there are performance requirements for the application under various circumstances, state them

**Safety Requirements**

Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product.

 **Security Requirements**

Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used.

### **Business Rules**

List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances.

**Technologies and methods**

Describe the connections between this software application and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications.

**Database Management System**

Details of DBMS tool being used, its name, vendor, version and any other relevant details.

Note: Very importantly describe how you achieved connectivity of database with your software.

### **Database Schema**

Describe the database schema including all tables and their relationships

**Database Physical Model**

Describe the details of each table with all its entities, their value model, primary and secondary keys, exceptions and constraints.

**Conceptualization**

### **Actor Glossary**

Try to Define at least 3 actors for your software application.

### **Use-case Glossary**

All functional requirements can be expressed as use-cases. Try to define at least 5 use-cases.

|  |  |  |
| --- | --- | --- |
| **Use-case Name** | **Description** | **Participating Actors** |
| *State the use-case name in just a few words (Eg. “Check Balance”)* | *Briefly describe the realted use-case. (Eg. “Customer checks his account balance”)* | *Write you actor names ( Eg. “Customer”)* |
| *…* | *…* | *…* |

### **Use-case Scenarios**

Prepare a scenario for each use-case. Describe your use cases for each functionality. There might be several use case scenarios.

|  |  |
| --- | --- |
| **Use-case Name** | *Define your use-case name as verb phrase (Eg. “Login”)* |
| **Use-case Description** | *Define your use-case* |
| **Actors** | *Write you actor names for this scenarios* |
| **Pre-Condition** | *Define the state of the system and its surroundings that is required before the use case can be started.(Eg. System must be connected to a network”)* |
| **Post-Condition** | *Define the states the system can be in after the use case has ended.(Eg. “Transaction is registered in the activity log”)* |
| **Normal Flow** | *Write your main events step by step.* *(Eg:**Step1 : User enters username and password**Step2 : Authentication service validates user’s username and password**….)*  |
| **Alternate Flow** | *If there are exceptional flow of events, write them here.**(Eg:**Alt-step2: Incorrect Email**...)*  |
| **Business Rules** | *Describe the policies defined for this scenario. (Eg. “After 3 unsuccessfull login attemps the system will terminate”)* |

### **Use-case Diagram**

Prepare a use-case diagram for each use-case scenario

### **Interface Designs**

Mockups, UI design etc..

### **Data Flow Diagram(s), Sequence Diagram(s), UML Diagram(s), Activity Diagram(s).**