**Use Case Design**

**Project**

Project Name

**Prepared for**

Client Name

**Prepared by**

Ahmad Almuhidat

Day/Month/Year

**Use Case Overview**

|  |  |
| --- | --- |
| **Field** | **Description** |
| **Use Case ID** | UC-XX (e.g., UC-01). A unique identifier for this use case. |
| **Use Case Name** | A short, descriptive title (e.g., "Create Account", "Generate Report"). |
| **Actor(s)** | Individuals or systems that interact with this use case. |
| **Description** | A concise overview of the functionality the use case provides. |
| **Trigger** | The event or condition that initiates the use case. |
| **Precondition(s)** | The state of the system or required inputs before execution. |
| **Postcondition(s)** | The resulting state of the system after execution (success/failure outcomes). |
| **Priority** | Importance of the use case (High / Medium / Low). |
| **Frequency of Use** | How often this use case is expected to be used (Daily, Weekly, On-Demand). |

**Actors**

|  |  |
| --- | --- |
| **Actor** | **Description** |
| Actor 1 | Primary user (e.g., End User, Customer, Admin, API Client). |
| Actor 2 | Secondary participant or external system (e.g., Payment Gateway, DB, Auth Server). |

**Preconditions**

* List any setup, data, or state that must exist before the use case can begin.

**Basic Flow (Main Success Scenario)**

|  |  |  |
| --- | --- | --- |
| **Step** | **Actor/System** | **Description** |
| 1 | Actor | Initiates the process (e.g., submits form, clicks button). |
| 2 | System | Validates input and performs internal checks. |
| 3 | Actor | Confirms action or provides further data. |
| 4 | System | Processes data and executes main function. |
| 5 | System | Returns result and updates relevant data or state. |

**Alternate Flows**

|  |  |  |
| --- | --- | --- |
| **Alternate Flow** | **Condition** | **Handling Strategy** |
| 5A: Invalid Input | User provides incorrect or missing data | Show error message, prompt correction |
| 5B: Timeout | Server or network timeout occurs | Notify user, allow retry |
| ... | ... | ... |

**Exceptions**

|  |  |  |
| --- | --- | --- |
| **Exception ID** | **Description** | **Handling Strategy** |
| EX-01 | System crashes during process | Log error, notify support, retry on relaunch |
| EX-02 | Database is unreachable | Show offline message, queue operation if needed |

**Postconditions**

* What must be true after successful or unsuccessful execution.
* Example: "Data is saved to database" or "User is notified of failure."

**Business Rules**

* Constraints, policies, or conditions that apply to the use case.
* Example: "User cannot place order with an empty cart."

**Approvals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Role** | **Signature** | **Date** |
| [Name] | Project Manager |  |  |
| [Name] | Business Analyst |  |  |
| [Name] | Product Owner |  |  |