# Software Design Steps

1. Write Use-Case
2. Determine all scenarios based on Main Path and Alternative Paths
3. For each scenario, note the requirements for each step. Note which are handled by software. These must be programmed and tested. Areas that are not handled by software are where testing stubs are written.

# Use Case

**Primary Actor:** (External Initiator)

**Secondary Actors:** Possibly interact with system

**Pre-Condition:** Starting context of the use case

**Goal:** State the aim of the use case that delivers value

**Main Path:**

1. Start Condition
2. ...

2.1. SubStep of 2

1. End Condition

**Alternative Paths:**

2.a. Alternate path to 2.

2.1.a. Alternate path to 2.1.

2.1.b. Alternate path to 2.1.

2.2.b. Alternate path to 2.2 within alternate path b.

*Alternate Form*

|  |  |  |
| --- | --- | --- |
| **Main Path:** | **Alternate Paths:** |  |
| 1. Start Condition |  |  |
| 2. | 2.a. |  |
| 2.1 | 2.1.a | 2.1.b |
| 2.2 |  | 2.2.b |
| 3. End Condition |  |  |

# Scenarios

1. 1, 2, 2.1, 2.2 .... , 3
2. 1, 2, 3
3. ...

# Requirements

|  |  |
| --- | --- |
| **Scenario 1** | **Requirement** |
| 1 |  |
| 2 |  |
| 2.1 |  |
| 2.2 |  |
| 3. |  |

|  |  |
| --- | --- |
| **Scenario 22** | **Requirement** |
| 1 |  |
| 2 |  |
| 3. |  |