## **Use case template**

An adaptation of the standard Cockburn template will be used. The template and examples follow:

|  |  |  |  |
| --- | --- | --- | --- |
| ID and name | UC-3 Programmer is select a bug. | | |
| Primary actor | The programmer | Secondary actors | Software platform |
| Description | The programmer can view the list of bugs; additionally, the programmer can select a bug from the list and press a button to declare that the bug has been fixed, in which case the bug is removed from all programmers' lists. | | |
| Trigger | The programmer checks the bug list. | | |
| Preconditions | Pre-1. The programmer is logged in.  Pre-2. The list is not empty | | |
| Postconditions | Post-1. The bug list is updated based on the programmer input. | | |
| Normal flow | **3.0 The bug selection**  1. The programmer opens the bug list.  2. They select a bug from the list.  3.They can interact with the bug based on the buttons  4. They exit the list | | |
| Alternative flows | **3.1 They press the read bug description**  1. They press the **"Read Description"** button on the bug.  2. A new window appears displaying all the details specified for the bug.  3. They return to step 2 of the normal flow.  **3.2 They press the bug is fixed button**  1. They press the **"Fixed"** button.  2. A confirmation window appears, asking if they are sure.  3a. If they press **"No,"** they return to step 2 of the normal flow.  3b. If they press **"Yes,"** the bug is removed from the list for all programmers, then they return to step 2 of the normal flow. | | |
| Exceptions | None | | |

Descriptions of template fields:

* **ID and name:** Title should be descriptive and should usually begin with a verb, e.g. order, calculate, input, etc. ID can have any format but must be unique among all use cases.
* **Primary actor:** Person that wishes to accomplish a goal through the use of the system. Only a single primary actor per use case.
* **Secondary actors:** Actors that have an interest in the completion of the goal but that do not directly interact with the system.
* **Description:** Concise description of the purpose of the use case.
* **Trigger:** Condition internal or external to the system that prompts the use case to start.
* **Preconditions:** Conditions that must be true before the use case starts. Each should be labeled with an ID unique to the use case.
* **Postconditions:** Conditions that must be true after the use case ends normally. Each should be labeled with an ID unique to the use case.
* **Normal flow:** Detailed step-by-step description of the logical flow of the use case. It should describe an explicit two way interaction, with the system prompting for input and the actor responding accordingly. Each step should be numbered.
* **Alternative flows:** Flows that achieve the same goal as the normal flow but are expected to be less common or lower priority.
* **Exceptions:** Conditions that result in the normal flow ending prematurely due to an unrecoverable condition in the system. The condition that causes the flow should be clearly stated, as should be any other decisions that the actor must make in this situation.