**Bug Management System**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-1 Log in the Bug Management System (BMS)** | | |
| **Primary actor** | Tester | **Secondary actors** |  |
| **Description** | The person accesses the system via the computer from the office and logs in the BMS to either report or solve bugs from the main application. | | |
| **Trigger** | The person, a tester or a developer, indicates that he wants to log in the system. | | |
| **Preconditions** | None | | |
| **Postconditions** | POST-1. Person is logged in the system. | | |
| **Normal flow** | **1.0 Log in the BMS**   1. The person introduces the username and the password of the account. 2. The person clicks the log in button. 3. The authentication is done correctly and the BMS opens the next windows accordingly to the type of actor. | | |
| **Alternative flows** | None | | |
| **Exceptions** | 1.0.E1 Person entered a wrong username.  1. BMS informs the person that the information provided is wrong and the actor will have to introduce again the username and the password.  2. Return to step 1 of normal flow.  1.0.E2 Person entered a wrong password.  1. BMS informs the person that the information provided is wrong and the actor will have to introduce again the username and the password.  2. Return to step 1 of normal flow.  1.0.E3 Person is not in the system.  1. The person is not allowed to log in, terminate the use case. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-2 Log out of the Bug Management System (BMS)** | | |
| **Primary actor** | Person | **Secondary actors** | Bug Management System |
| **Description** | The person finishes either a day at work, reporting a bug or solving a bug and wants to log out. | | |
| **Trigger** | The person, a tester or a developer, indicates that he wants to log out of the system. | | |
| **Preconditions** | PRE-1. Person has to be logged in the system. | | |
| **Postconditions** | POST-1. Person is logged out of the system. | | |
| **Normal flow** | **2.0 Log out the BMS**   1. The person clicks the log out button from the application 2. The log out is done successfully and the log in window appears | | |
| **Alternative flows** | None | | |
| **Exceptions** | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-3 Register bug** | | |
| **Primary actor** | Tester | **Secondary actors** |  |
| **Description** | The tester finds a bug in the main application and want to report it to the developers in order for them to solve it. | | |
| **Trigger** | The tester indicates that he wants to add a bug. | | |
| **Preconditions** | PRE-1. Tester has to be logged in the system. | | |
| **Postconditions** | POST-1. A new bug will be added in the BMS.  POST-2. The registered bugs list will update, containing the new one.  POST-3. The developers’ bugs list will update, containing the new one. | | |
| **Normal flow** | **3.0 Add a new bug to the BMS**   1. Tester completes the form from the application. + de adaugat fields 2. Tester submits the form by clicking the report bug button. | | |
| **Alternative flows** | None | | |
| **Exceptions** | **3.0.E1 Mandatory fields are not completed.**  1. BMS informs the tester that there are empty mandatory fields and need to be filled.  2. Return to step 1 of normal flow.  **3.0.E2 BMS fails to submit the form.**  1. BMS informs the tester that there was an error when submitting the form.  2. Return to step 2 of normal flow.  **3.0.E3 Name of the bug already exists.**  1. BMS informs the tester that a bug with that name already exists and needs to change it.  2. Tester changes the name  3. Return to step 2 of normal flow. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-4 Remove bug** | | |
| **Primary actor** | Tester | **Secondary actors** | Bug Management System |
| **Description** | The tester reported a wrong bug or the information in a reported bug is misleading. | | |
| **Trigger** | The tester indicates that he wants to remove a bug. | | |
| **Preconditions** | PRE-1. Tester has to be logged in the system.  PRE-2. Tester has to have reported at least 1 bug. | | |
| **Postconditions** | POST-1. A bug will be removed from the BMS.  POST-2. The registered bugs list will update accordingly.  POST-3. The developers’ bugs list will update accordingly. | | |
| **Normal flow** | **4.0 Remove a bug from the BMS**   1. Tester selects a bug from the registered bugs list. 2. Tester clicks the remove bug button. | | |
| **Alternative flows** | **4.1 Remove multiple bugs from the BMS**  1. Testers selects more bugs than one from the registered bugs list  2. Return to step 2 of normal flow. | | |
| **Exceptions** | **4.0.E1 No bug is selected.**  1. BMS informs the tester that there was no selected bug to remove.  2. Return to step 1 of normal flow.  **4.0.E2 BMS fails to remove the bugs.**  1. BMS informs the tester that there was an error when removing the bugs.  2. Return to step 2 of normal flow. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-5 Solve bug** | | |
| **Primary actor** | Developer | **Secondary actors** | Bug Management System |
| **Description** | The developer solved a bug reported by a tester and wants to mark it solved. | | |
| **Trigger** | The developer indicates that he solved a bug. | | |
| **Preconditions** | PRE-1. Developer has to be logged in the system.  PRE-2. Developer has to have at least 1 reported bug from testers. | | |
| **Postconditions** | POST-1. A bug will be marked as solved in the BMS.  POST-2. The tester’s bugs list that reported that specific bug will update accordingly.  POST-3. The developers’ bugs list will update accordingly. | | |
| **Normal flow** | **5.0 Mark a bug as solved**   1. Developer selects a bug from the bugs list. 2. Developer clicks the solve bug button. | | |
| **Alternative flows** | **5.1 Mark multiple bugs from the BMS as solved**  1. Developer selects more bugs than one from the bugs list.  2. Return to step 2 of normal flow. | | |
| **Exceptions** | **5.0.E1 No bug is selected.**  1. BMS informs the developer that there was no selected bug to mark as solved.  2. Return to step 1 of normal flow.  **5.0.E2 BMS fails to mark the bugs as solved.**  1. BMS informs the tester that there was an error when marking the bug as solved.  2. Return to step 2 of normal flow. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **ID and name** | **UC-6 Sorting after severity.** | | |
| **Primary actor** | Developer | **Secondary actors** | Bug Management System |
| **Description** | The developer wants to solve the bugs based on their severity and will take the most important ones first. | | |
| **Trigger** | The developer indicates that he wants to solve a severe bug. | | |
| **Preconditions** | PRE-1. Developer has to be logged in the system.  PRE-2. Developer has to have at least 1 reported bug from testers. | | |
| **Postconditions** | POST-1. The developer’s bugs list will update accordingly. | | |
| **Normal flow** | **6.0 Sorting the bugs.**   1. Developer will tick the checkbox that says sort by severity. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

**Iteratii**

**Iteratie 01**

* **Log in the system accordingly to the type of actor**
* **Log out of the system**

**Iteratie 02**

* **Reporting a bug**
* **Removing a bug**

**Iteratie 03**

* **Solving a bug**
* **Sorting the bugs after severity**