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| **ID and name** | **UC-0: Login into an Account** | | |
| **Primary actor** | Employee | **Secondary actors** | SGBD |
| **Description** | An Employee wants to log in into the application. | | |
| **Trigger** | The Employee wants to use the application. | | |
| **Preconditions** | PRE-0. Employee’s data should be in the SGBD. | | |
| **Postconditions** | POST-0. Employee will see the application based on his permissions. | | |
| **Normal flow** | * 1. **Login into an Account**  1. Employee accesses the web page of the application. 2. BTS displays the login page. 3. Employee enters the credentials and asks to log in. 4. BTS redirects to the main application. | | |
| **Alternative flows** |  | | |
| **Exceptions** | **0.4.E1 Wrong credentials**   1. BTS informs the Employee that the data he typed is incorrect. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-1: Create an Account** | | |
| **Primary actor** | Administrator | **Secondary actors** | Employee, SGBD |
| **Description** | An Employee without an account needs one. He reaches an Administrator to create him one. The Administrator accesses the Bug Tracking System, accesses the ‘Manage accounts’ tab, enters an username, a password and the type of the account for the employee, then he gives the account info to him. | | |
| **Trigger** | The Administrator wants to create an account for the Employee. | | |
| **Preconditions** | PRE-1. Administrator is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-1. The account is created and saved into the SGBD with the given type. | | |
| **Normal flow** | 1. **Create an Account** 2. Administrator asks to view the Manage Accounts tab. 3. BTS displays the Manage Accounts tab. 4. Administrator enters the username, the password and selects the type of the account, then asks to Create Account. 5. BTS displays if he is sure that he wants to create the account with the given information. 6. Administrator selects the confirmation option. 7. BTS displays that the account was successfully created and reloads the list of accounts. | | |
| **Alternative flows** | **1.5.a. Administrator selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **1.6.E1 There is already an Employee with the same username**   1. BTS informs the administrator that there is already an user in SGBD who have the same username 2. Return to step 5 to normal flow.   **1.6.E2 Invalid username / password**   1. BTS informs the administrator that the information he provided is invalid. 2. Return to step 5 to normal flow. | | |

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| **ID and name** | **UC-2: Update an Account** | | |
| **Primary actor** | Administrator | **Secondary actors** | Employee, SGBD |
| **Description** | An Employee forgot his password. He reaches an Administrator to update his password. The Administrator accesses the Bug Tracking System, accesses the ‘Manage accounts’ tab, enters the username and the new password, then he gives him back the new password to him. | | |
| **Trigger** | The Employee came to the Administrator to update his password. | | |
| **Preconditions** | PRE-2. Administrator is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-2. The account is updated in the SGBD with the new password. | | |
| **Normal flow** | 1. **Create an Account** 2. Administrator asks to view the Manage Accounts tab. 3. BTS displays the Manage Accounts tab. 4. Administrator selects the user from the table and enters a new password, then asks to Update Account. 5. BTS displays if the administrator is sure that he wants to update the account with the given information. 6. Administrator selects the confirmation option. 7. BTS displays that the account was successfully updated and reloads the list of accounts. | | |
| **Alternative flows** | **2.5.a. Administrator selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **2.6.E1 There is already no Employee with the given username**   1. BTS informs the administrator that there is no employee with the username given as input. 2. Return to step 5 to normal flow.   **2.6.E2 Invalid user**  **1.** Informs the administrator he did not select the user 2. Return to step 5 to normal flow. | | |

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| **ID and name** | **UC-3: Delete an Account** | | |
| **Primary actor** | Administrator | **Secondary actors** | Employee, SGBD |
| **Description** | An Employee leaves the company. Because memory is money, the Administrator removes him from the SGBD. | | |
| **Trigger** | The Employee leaved the company. | | |
| **Preconditions** | PRE-3. Administrator is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-3. The account is deleted from the SGBD. | | |
| **Normal flow** | 1. **Delete an Account** 2. Administrator asks to view the Manage Accounts tab. 3. BTS displays the Manage Accounts tab. 4. Administrator presses the Create Account button. 5. BTS displays an window with the data to complete for the account creation to be done. 6. Administrator enters the username, the password and selects the type of the account, then asks to Delete Account. 7. BTS displays that the account was deleted successfully and reloads the list of accounts. | | |
| **Alternative flows** | **3.5.a. Administrator selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **3.6.E1 There is already an Employee with the same username**   1. BTS informs the administrator that there is already an user in SGBD who have the same username 2. Return to step 5 to normal flow.   **3.6.E2 Invalid username / password**   1. BTS informs the administrator that the information he provided is invalid. 2. Return to step 5 to normal flow. | | |

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| **ID and name** | **UC-4: Report bug** | | |
| **Primary actor** | Tester | **Secondary actors** | SGBD |
| **Description** | A Tester found a bug in the application and needs to report it. He accesses the Bug Tracking System, accesses the ‘Register Bug’ window from the ‘Manage Submitted Bugs’ tab, enters the bug’s name and a description, then submits it. | | |
| **Trigger** | The Tester found a bug in the application and wants to report it. | | |
| **Preconditions** | PRE-4. Tester is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-4. The bug is updated in the SGBD and in the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Report a bug** 2. Tester asks to view the Manage Submitted Bugs tab. 3. BTS displays the Manage Submitted Bugs tab. 4. Tester enters the name and the description of the bug, then asks to Register Bug. 5. BTS displays if the Tester is sure that he wants to Report the bug. 6. Tester selects the confirmation option. 7. BTS displays that the bug was successfully reported and reloads its list of submitted bugs. | | |
| **Alternative flows** | **4.5.a. Tester selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **4.4.E1 Invalid bug data**   1. BTS informs the tester that the name or the description he introduced is invalid. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-5: Update bug** | | |
| **Primary actor** | Tester | **Secondary actors** | SGBD |
| **Description** | A Tester needs to change some details at a bug. He accesses the Bug Tracking System, accesses the ‘Register Bug’ window from the ‘Manage Submitted Bugs’ tab, selects the bug, enters the bug’s name and a description, then submits it. | | |
| **Trigger** | The Tester found an error in the reported bug and wants to report it. | | |
| **Preconditions** | PRE-5. Tester is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-5. The bug is updated in the SGBD and in the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Update a bug** 2. Tester asks to view the Manage Submitted Bugs tab. 3. BTS displays the Manage Submitted Bugs tab. 4. Tester selects the bug, enters the name and the description of the bug, then asks to Update Bug. 5. BTS displays if the Tester is sure that he wants to Update the bug. 6. Tester selects the confirmation option. 7. BTS displays that the bug was successfully updated and reloads its list of submitted bugs. | | |
| **Alternative flows** | **5.5.a. Tester selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **5.4.E1 No bug selected**   1. BTS informs the tester that the name or the description he introduced is invalid. 2. Return to step 3 to normal flow.   **5.4.E2 Invalid bug data**   1. BTS informs the tester that the name or the description he introduced is invalid. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-6: Remove reported bug** | | |
| **Primary actor** | Tester | **Secondary actors** | SGBD |
| **Description** | A Tester submitted a bug, but something went wrong, like a wrong name or a wrong description. He can remove it and then report it again, using the valid information. | | |
| **Trigger** | The Tester did a mistake when reporting a bug. | | |
| **Preconditions** | PRE-6. Tester is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-6. The bug is updated in the SGBD and in the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Remove reported bug** 2. Tester asks to view the Manage Submitted Bugs tab. 3. BTS displays the Manage Submitted Bugs tab. 4. Tester selects the bug, then asks to Remove Bug. 5. BTS displays if the tester is sure that he wants to remove the reported bug. 6. Tester selects the confirm option. 7. BTS displays that the reported bug was successfully removed and reloads its list of submitted bugs. | | |
| **Alternative flows** | **6.5.a. Tester selects the cancel option.**  6.a. BTS displays that the action was canceled. | | |
| **Exceptions** | **6.4.E1 No bug selected**   1. BTS informs the tester that he did not select a bug. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-7: Assign bug** | | |
| **Primary actor** | Programmer | **Secondary actors** | SGBD |
| **Description** | A Programmer sees a bug that he knows how to solve, so he marks it as his task. | | |
| **Trigger** | The Programmer decided that he wants to solve a bug. | | |
| **Preconditions** | PRE-7. Programmer is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-7. The bug is updated in the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Assign bug** 2. Programmer asks to view the View Bugs List tab. 3. BTS displays the Manage Submitted Bugs tab. 4. Programmer selects the bug, then asks to Add bug to their tasks. 5. BTS displays if the programmer is sure that he wants to mark the bug as their task. 6. Programmer selects the confirmation option. 7. BTS displays that the bug was successfully marked as their task and reloads its list of tasks. | | |
| **Alternative flows** | **7.5.a Programmer selects the cancel option.**  6.a BTS displays that the action is canceled. | | |
| **Exceptions** | **7.4.E1 No bug selected**   1. BTS informs the programmer that he did not select a bug. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-8: Mark bug as Fixed** | | |
| **Primary actor** | Programmer | **Secondary actors** | SGBD |
| **Description** | A Programmer finally solved a bug, so he enters the application and mark it as solved. | | |
| **Trigger** | The Programmer decided that he wants to mark the bug as solved. | | |
| **Preconditions** | PRE-8. Programmer is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-8. The bug is removed from the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Mark bug as Fixed** 2. Programmer asks to view the Manage Tasks tab. 3. BTS displays the Manage Tasks tab. 4. Programmer selects the bug, then asks to Mark it as Solved. 5. BTS displays if the programmer is sure that he wants to mark the bug as solved. 6. Programmer selects the confirmation option. 7. BTS displays that the bug was successfully marked as solved and reloads its list of bugs. | | |
| **Alternative flows** | **8.5.a Programmer selects the cancel option.**  6.a BTS displays that the action is canceled. | | |
| **Exceptions** | **8.4.E1 No bug selected**   1. BTS informs the programmer that he did not select a bug. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-9: Unassign Bug** | | |
| **Primary actor** | Programmer | **Secondary actors** | SGBD |
| **Description** | A Programmer gave up on his bug and decides to remove it from its list, the other programmer can take it. | | |
| **Trigger** | The Programmer decided that he wants to mark the bug as solved. | | |
| **Preconditions** | PRE-9. Programmer is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-9. The bug is marked as unsolved in the list of bugs of all the users logged in the application at that moment. | | |
| **Normal flow** | 1. **Unassign bug** 2. Programmer asks to view the Manage Tasks tab. 3. BTS displays the Manage Tasks tab. 4. Programmer selects the bug, then asks to remove it from his tasks. 5. BTS displays if the programmer is sure that he wants to remove it from his tasks. 6. Programmer selects the confirmation option. 7. BTS displays that the bug was successfully removed from its tasks and reloads its list of bugs. | | |
| **Alternative flows** | **9.5.a Programmer selects the cancel option.**  6.a BTS displays that the action is canceled. | | |
| **Exceptions** | **9.4.E1 No bug selected**   1. BTS informs the programmer that he did not select a bug. 2. Return to step 3 to normal flow. | | |

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| **ID and name** | **UC-10: View the list of bugs** | | |
| **Primary actor** | Employee | **Secondary actors** | SGBD |
| **Description** | An Employee wants to see how the projects are doing, so how many bugs are there. | | |
| **Trigger** | The Employee wanted to see the list of bugs. (See UC-0) | | |
| **Preconditions** | PRE-10. Employee is logged into BTS. | | |
| **Postconditions** |  | | |
| **Normal flow** | 1. **View the list of bugs** 2. Employee asks to view the View Bugs List tab. 3. BTS displays the View Bugs List tab. | | |
| **Alternative flows** |  | | |
| **Exceptions** |  | | |

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| **ID and name** | **UC-11: Log out** | | |
| **Primary actor** | Employee | **Secondary actors** | SGBD |
| **Description** | An Employee may want to leave the computer for some moments, and, to avoid another to do some malicious stuff, he logs out of the application. | | |
| **Trigger** | The Employee wanted to log out from the application. | | |
| **Preconditions** | PRE-11. Employee is logged into BTS. (See UC-0) | | |
| **Postconditions** | POST-11. Employee is no longer logged into BTS. | | |
| **Normal flow** | 1. **Logout** 2. Employee asks to log out of the application. 3. BTS logs out the Employee and shows the login page. | | |
| **Alternative flows** |  | | |
| **Exceptions** |  | | |