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| **Name : Register** | **ID : G1** |
| **Stakeholders and goals :** Guest - register | |
| **Description :** Guests register in the system. | |
| **Actors :** None | |
| **Trigger :** None | |
| **Normal flow :**   1. Guests input user id and password. 2. System checks the user id. If it’s occupied, go back to step1. 3. Case end. | |
| **Sub-flows :** None. | |
| **Alternative/Exceptional flows :** None. | |

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| **Name : Bug Searching** | **ID : G2** |
| **Stakeholders and goals :** Guest - search bugs | |
| **Description :** Guests search for bugs under certain conditions. | |
| **Actors :** None. | |
| **Trigger :** None. | |
| **Normal flow :**   1. Guests designate selection criteria, such as scope and key words. 2. Case end. | |
| **Sub-flows :** Bug Detail. | |
| **Alternative/Exceptional flows :** None. | |

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| **Name : Bug Detail** | **ID : G21** |
| **Stakeholders and goals :** Guest - view bug detail. | |
| **Description :** Guests can view bug detail, solution and comments. | |
| **Actors :** None. | |
| **Trigger :** Guests search for bugs. | |
| **Normal flow :**   1. Guests can view bug detail, solution and comments. 2. Case end. | |
| **Sub-flows :** None. | |
| **Alternative/Exceptional flows :** None. | |

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| **Name : Login** | **ID : U1** |
| **Stakeholders and goals :** User - verify identity. | |
| **Description :** Users verify their identity to the system. | |
| **Actors :** None. | |
| **Trigger :** None. | |
| **Normal flow :**   1. Users input user id and password. 2. System checks user id and password. If they are invalid, go back to step1. 3. Case end. | |
| **Sub-flows :** None. | |
| **Alternative/Exceptional flows :** None. | |

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| **Name : bug submitting** | **ID : U2** |
| **Stakeholders and goals :** User - submit bugs | |
| **Description :** Users submit bugs. | |
| **Actors :** Triager | |
| **Trigger :** Users sign in the system. | |
| **Normal flow :**   1. Users fill in the bug detail form. 2. Users make notes or description about this bug. 3. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Exceptional flows :** None | |

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| **Name : Bug Detail** | **ID : U3** |
| **Stakeholders and goals :** User - view bug detail | |
| **Description :** Users can view bug details, solution and comments and comment on the bug . | |
| **Actors :** None | |
| **Trigger :** Users search for bugs. | |
| **Normal flow :**   1. Users view the bug detail, solution and comments. 2. Case end. | |
| **Sub-flows :** U31, U32 | |
| **Alternative/Except**ional flows : None | |

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| **Name : Comment** | **ID : U31** |
| **Stakeholders and goals :** User - comment on bugs | |
| **Description :** Users comment on bugs. | |
| **Actors :** None | |
| **Trigger :** Users view bug details. | |
| **Normal flow :**   1. Users comment on bug. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Cc** | **ID : U32** |
| **Stakeholders and goals :** User - label the bug as interested in | |
| **Description :** After marking on this bug, when there are new comments or solution on this bug , users will get a notification. | |
| **Actors :** None | |
| **Trigger :** Users view bug details. | |
| **Normal flow :**   1. Users mark on the bug. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Generating report** | **ID : U4** |
| **Stakeholders and goals :** User - generate report | |
| **Description :** Users can generate reports about bug or other users. | |
| **Actors :** None | |
| **Trigger :** Users sign in the system. | |
| **Normal flow :**   1. Users designate certain criteria, such as period, category. 2. System generates a report displaying in the following window. 3. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : User profile** | **ID : U5** |
| **Stakeholders and goals :** User - view and edit user information | |
| **Description :** Users can view and edit their own user information. | |
| **Actors :** None | |
| **Trigger :** Users sign in the system. | |
| **Normal flow :**   1. Users view their information and records.   2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Edit profile** | **ID : U51** |
| **Stakeholders and goals :** User - edit user information | |
| **Description :** Users can modify their information. | |
| **Actors :** None | |
| **Trigger :** Users view their profile. | |
| **Normal flow :**   1. Users edit their information. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Logout** | **ID : U6** |
| **Stakeholders and goals :** User - sign out of the system | |
| **Description :** .Users sign out of the system. | |
| **Actors :** None | |
| **Trigger :** Users sign in the system | |
| **Normal flow :**   1. Users sign out of system. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Bug Solution Test** | **ID : R** |
| **Stakeholders and goals :** Reviewer - test bug solution. | |
| **Description :** Reviewers can test bug solutions and reply the result. | |
| **Actors :** Developer | |
| **Trigger :** Review sign in the system. | |
| **Normal flow :**   1. Reviewers select a bug which has been offered a solution by developer but the solution hasn’t been tested. 2. Reviewers test the solution. If the solution is effective, modify the bug’s state to solved and close this bug. Otherwise, return the bug to corresponding developer with a comment. 3. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Bug Fixing** | **ID : D** |
| **Stakeholders and goals :** Developer - offer bug solution | |
| **Description :** Developers offer bug solutions. | |
| **Actors :** Triager, Reviewer | |
| **Trigger :** Developers sign in the system. | |
| **Normal flow :**   1. Developers select a bug from the bug list which consists of bugs assigned by triager. 2. Developers view the bug detail. 3. Developers provide a solution and patches , if necessary. 4. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Bug Management** | **ID : T** |
| **Stakeholders and goals :** Triager - bug management | |
| **Description :** Triagers can manage bugs. | |
| **Actors :** Reviewer, Developer | |
| **Trigger :** Triager sign in the system. | |
| **Normal flow :**   1. Triagers select the sub-function. 2. Case end. | |
| **Sub-flows :** T1, T2, T3, T4 | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Check Duplication** | **ID : T1** |
| **Stakeholders and goals :** Triager - check duplication | |
| **Description :** Triagers check the duplication of bugs. | |
| **Actors :** None | |
| **Trigger :** Triager sign in the system. | |
| **Normal flow :**   1. Triagers check the duplication of this bug. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Modify Bug Detail** | **ID : T2** |
| **Stakeholders and goals :** Triager - complement bug detail | |
| **Description :** Triagers complement bug details. | |
| **Actors :** None | |
| **Trigger :** Triagers sign in the system. | |
| **Normal flow :**   1. Triagers complement bug details. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Assign Task** | **ID : T3** |
| **Stakeholders and goals :** Triager - assign unsolved bugs | |
| **Description :** Triagers assign unsolved bugs to developer and reviewer. | |
| **Actors :** Developer, Reviewer | |
| **Trigger :** Triagers sign in the system. | |
| **Normal flow :**   1. Triagers select a bug from the unsolved bug list. 2. Triagers search for apposite developers and reviewers according to their speciality. 3. Triagers assign this bug to apposite developer and reviewer according to their workload. 4. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| **Name : Evaluate Bug** | **ID : T4** |
| **Stakeholders and goals :** Triager - evaluate bug | |
| **Description :** Triagers evaluate whether or not this bug is good. | |
| **Actors :** User | |
| **Trigger :** Triagers sign in the system. | |
| **Normal flow :**   1. Triagers evaluate newly submitted bugs. 2. Triagers reward reporter(user) with reputation. 3. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : User Management** | **ID : A** |
| **Stakeholders and goals :** Administrator - manage user account and role information | |
| **Description :** Administrator can manage user account and role information. | |
| **Actors :** User, Developer, Triager, Reviewer | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator choose the sub-functions. 2. Case end. | |
| **Sub-flows :** A1, A2 | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Role Management** | **ID : A1** |
| **Stakeholders and goals :** Administrator - manage role information | |
| **Description :** Administrator can manage role information. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator choose the sub-function. 2. Case end. | |
| **Sub-flows :** A11, A12, A13, A14 | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Search Role** | **ID : A11** |
| **Stakeholders and goals :** Administrator - search for certain role | |
| **Description :** Administrator can search for certain role. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator designate searching criterion. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Add Role** | **ID : A12** |
| **Stakeholders and goals :** Administrator - create role | |
| **Description :** Administrator can create new role. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator designate new role’s name and privilege. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Delete Role** | **ID : A13** |
| **Stakeholders and goals :** Administrator - delete role | |
| **Description :** Administrator can delete a role. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator sign in the system. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Edit Role** | **ID : A14** |
| **Stakeholders and goals :** Administrator - edit role | |
| **Description :** Administrator can modify role’s information. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator modify the role’s name and privilege. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Account Management** | **ID : A2** |
| **Stakeholders and goals :** Administrator - manage user account | |
| **Description :** Administrator can manage user account. | |
| **Actors :** User | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator choose a sub-function. 2. Case end. | |
| **Sub-flows :** A21, A22, A23, A24 | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Search Account** | **ID : A21** |
| **Stakeholders and goals :** Administrator - search user | |
| **Description :** Administrator search user by user id. | |
| **Actors :** User | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator designate selection criteria. 2. Administrator pick up the chosen user. 3. Case end. | |
| **Sub-flows :** None. | |
| **Alternative/Except**ional flows : None | |

|  |  |
| --- | --- |
| **Name : Add Account** | **ID : A22** |
| **Stakeholders and goals :** Administrator - create new user account | |
| **Description :** Administrator can create new user account. | |
| **Actors :** None | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator designate user id and password. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Delete Account** | **ID : A23** |
| **Stakeholders and goals :** Administrator - delete user account | |
| **Description :** Administrator can delete user account. | |
| **Actors :** User | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator pick up a user account and delete it. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Edit Account** | **ID : A24** |
| **Stakeholders and goals :** Administrator - edit user account | |
| **Description :** Administrator can modify user account. | |
| **Actors :** User | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator pick a user account and modify its information. 2. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None | |

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| --- | --- |
| **Name : Authorisation** | **ID : A25** |
| **Stakeholders and goals :** Administrator - authorise privilege to user | |
| **Description :** Administrator can authorise privilege to user. | |
| **Actors :** User | |
| **Trigger :** Administrator sign in the system. | |
| **Normal flow :**   1. Administrator pick up a user account. 2. Administrator authorise privilege to this user. 3. Case end. | |
| **Sub-flows :** None | |
| **Alternative/Except**ional flows : None. | |