| **Name:** **Login to System** | **ID: #43, #52, #78, #88** |
| --- | --- |
| **Stakeholders and Goals:** Users of bug reporting system - to log into the bug reporting system and utilize other functions | |
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| **Description:** Users of bug reporting system wants to log into the bug reporting system | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User initiates login process | |
| **Normal Flow:**   1. The user runs the bug reporting system 2. The system displays login interface 3. The user enters credentials (username and password) 4. The system checks validity of credentials 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  3a. User credentials not recognized, login fails. | |

| **Name:** **Logout of System** | **ID: #44, #53, #79, #89** |
| --- | --- |
| **Stakeholders and Goals:** Users of bug reporting system - to exit from the bug reporting system | |
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| **Description:** Users of bug reporting system wants to logout of their account from the bug reporting system | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User chooses to logout of account from the system | |
| **Normal Flow:**   1. The user clicks on menu and clicks on “Logout” button 2. The system displays a prompt to confirm that the user wants to logout 3. The user confirms the logout by clicking “YES” 4. The system logs out of user account and displays the login interface 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** User clicks “NO” | |

| **Name: Search for Bug Reports using Keyword** | **ID: #46, #55, #81, #91** |
| --- | --- |
| **Stakeholder and Goals:** Users of bug reporting system – want to search for bug report using keywords | |
| **Description:** Users of bug reporting system search for a bug report by using keyword found in the content of the bug report. Keyword includes, but not limited to the name of the reporter, name of developer assigned, name of reviewer who reviewed the bug report, title of the bug report. | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User initiates search function by keyword | |
| **Normal Flow:** | |
| 1. The user inputs keyword into textbox 2. The system shortlist and displays bug reports which have matching values in any of its attributes, even partially. 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name:** **View All Bug Reports** | **ID: #48, #57, #83, #93** |
| --- | --- |
| **Stakeholders and Goals:** Users of bug reporting system - allows for all actors to view all the bug reports that were reported. | |
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| **Description :** Users of bug reporting system are able to view the list of bug reports that were reported, along with all the relevant information relating to it. | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User initiates View Bug Reports button | |
| **Normal Flow:**   1. The user clicks on “View Bug Reports” button 2. The system displays a list of bug reports 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name: View forum comments** | **ID: #49, #58, #84, #94** |
| --- | --- |
| **Stakeholder and Goals:** Users of bug reporting system – allows users to view comments on how to solve a type of bug | |
| **Description:** Users of bug reporting system are able to open up the forum page to view past comments on a bug. | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User wants to view the forum | |
| **Normal Flow:** | |
| 1. The user clicks on discuss 2. The system displays a textbox and a view button 3. The user enter bug report id and clicks on view 4. The system displays all past comments 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name: Insert comment in Forum** | **ID: #477, #478, #484, #485** |
| --- | --- |
| **Stakeholder and Goals:** Users of bug reporting system – allows users to leave comments on how to solve a type of bug | |
| **Description:** Users of bug reporting system are able to open up the forum page to leave comments on how to solve a bug via comments | |
| **Actors:** Bug Reporter, Developer, Triager, Reviewer | |
| **Trigger:** User wants to insert a comment for a bug | |
| **Normal Flow:** | |
| 1. The user has entered the bug report id and is viewing past comments for the bug 2. The user can add in additional comments by typing in the textbox at the bottom of the screen and click the “SUBMIT” button 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name: Submit Report** | **ID: #51** |
| --- | --- |
| **Stakeholder and Goals:** Bug Reporter – want to report a bug | |
| **Description:** A Bug Reporter wants to report a bug and must login to the system | |
| **Actors:** Bug Reporter | |
| **Trigger:** The reporter initiates the bug reporting function | |
| **Normal Flow:**   1. The bug reporter clicks on “Report Bug” 2. The system displays bug reporting form 3. The bug reporter enters bug title and bug description submits form 4. The system will redirect the user to “All Bugs” page 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name:** **View Bug Reports Assigned to Developer** | **ID: #87** |
| --- | --- |
| **Stakeholders and Goals:** Developer - to view the bug reports assigned to the developer so he/she knows which bugs he/she has to work on | |
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| **Description :** A Developer wants to view bug reports assigned to him/her that are not yet resolved and requires work done | |
| **Actors:** Developer | |
| **Trigger:** The Developer chooses to view bug reports assigned to him/her | |
| **Normal Flow:**   1. The developer click “My Bugs” button 2. The system displays a list of bug reports which the triager has assigned to the developer to resolve 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **Mark Bug Report as “Pending Review”** | **ID: #86** |
| --- | --- |
| **Stakeholders and Goals:** Developer - mark bug report as “pending review” once done | |
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| **Description :** A Developer wants to mark bug report as “pending review” once done | |
| **Actors:** Developer | |
| **Trigger:** The Developer clicks on the function to mark bug report as “pending review” | |
| **Normal Flow:**   1. The developer views all bugs assigned to him / her 2. The developer enter the bug report id and clicks on submit button 3. The system updates the status to “pending review” 4. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name: View “pending review” bug reports** | **ID: #486** |
| --- | --- |
| **Stakeholder and Goals:** Reviewer - review resolved bug reports | |
| **Description:** A reviewer want to view bug reports that are pending review | |
| **Actors:** Reviewer | |
| **Trigger:** The reviewer initiates the review resolved bug reports function | |
| **Normal Flow:**   1. The reviewer clicks on “Review Bugs” 2. The system displays review bugs page and list of resolved bugs report 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name: Update bug reports from “pending review” to “reviewed”** | **ID: #96** |
| --- | --- |
| **Stakeholder and Goals:** Reviewer - review resolved bug reports | |
| **Description:** A reviewer has reviewed a bug report and wants to mark it as “reviewed” | |
| **Actors:** Reviewer | |
| **Trigger:** The reviewer wants to mark a bug report from “pending review” to “review” | |
| **Normal Flow:**   1. The reviewer views bugs with the “pending review” status 2. The reviewer enter bug id and clicks submit 3. The system updates the case of the bug from “pending review” to “reviewed”. 4. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional flows:** None | |

| **Name:** **View unassigned bug** | **ID: #480** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to bugs which are not yet assigned to a developer | |
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| **Description:** Triager views all bugs which are not yet assigned to a developer | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view bugs which are not yet assigned to a developer | |
| **Normal Flow:**   1. The triager clicks on “Assign Bugs” 2. The system display list of unresolved bug reports that have yet to be assigned to a developer 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  None | |

| **Name:** **View developers** | **ID: #481** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to view all developers | |
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| **Description:** Triager views all developers | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view all developers | |
| **Normal Flow:**   1. The triager clicks on “Assign Bugs” 2. The system display list of all developers 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  None | |

| **Name:** **Assign Bug Reports to Developer** | **ID: #67** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to assign bug reports to respective developer | |
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| **Description:** Triager is able to assign a bug report to its respective developer for solving the bug more efficiently | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a bug report that has yet to be assigned | |
| **Normal Flow:**   1. The triager clicks on “Assign Bugs” 2. The triager input bug report id and developer’s username and click submit 3. The system updates “assigned to” and “allocated by” to developer’s username and triager’s username 4. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  Invalid bug report id or developer username, system will return an error an stay on the current screen | |

| **Name:** **View unresolved bug** | **ID: #479** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to view which bugs are not yet resolved | |
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| **Description:** Triager is able to to view which bugs are not yet resolved | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a bugs that are yet to be resolved | |
| **Normal Flow:**   1. Triager clicks on “Invalid Bugs” 2. System will display a list of bugs with “unresolved” as its status 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  None | |

| **Name:** **Mark Bug Report as Duplicated** | **ID: #61** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to mark a bug report as duplicate to prevent redundant work done to resolve the same bug. | |
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| **Description :** Triagers can mark a bug report as duplicate and the case will be closed | |
| **Actors:** Triager | |
| **Trigger:** The Triager sees a duplicate bug report | |
| **Normal Flow:**   1. The triager clicks on “Invalid Bugs” button 2. The system displays list of unresolved bugs 3. The triager to input the bug report id and select “duplicated” from the drop down list and clicks submit 4. The system changes the status of the bug report to “Duplicated” and close the case 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **Mark Bug Report as Invalid** | **ID: #62** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to mark a bug report as invalid to prevent redundant work done to resolve an invalid bug. | |
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| **Description :** Triagers can mark a bug report as invalid and the case will be closed | |
| **Actors:** Triager | |
| **Trigger:** The Triager sees an invalid bug report | |
| **Normal Flow:**   1. The triager clicks on “Invalid Bugs” button 2. The system displays list of unresolved bugs 3. The triager to input the bug report id and select “invalid” from the drop down list and clicks submit 4. The system changes the status of the bug report to “Invalid” and close the case 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **View Report of Bugs Reported in a Month** | **ID: #65** |
| --- | --- |
| **Stakeholders and Goals:** Triager - wants to know how many bugs were reported in a month | |
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| **Description:** Triager is able to view the bugs that were reported in a month | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a list of reports | |
| **Normal Flow:**   1. The triager clicks on “Reports” button 2. The system shows list of reports 3. The triager clicks on “Number of reports from \_\_\_ to \_\_\_” 4. The system displays a page for user to input dates 5. The triager input from date to date and clicks on view. 6. The system displays the number of bugs that were reported and resolved in that range (triager has to manually enter the dates for the month) 7. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  4a. No bugs were resolved in that month, display “0 bugs reported this month” message | |

| **Name:** **View Report of Bugs Resolved in a Week** | **ID: #66** |
| --- | --- |
| **Stakeholders and Goals:** Triager - wants to know how many bugs were resolved in a week | |
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| **Description:** Triager is able to view the bugs that were resolved in a week | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a list of reports | |
| **Normal Flow:**   1. The triager clicks on “Reports” button 2. The system shows list of reports 3. The triager clicks on “Number of reports from \_\_\_ to \_\_\_” 4. The system displays a page for user to input dates 5. The triager input from date to date and clicks on view. 6. The system displays the number of bugs that were reported and resolved in that range (triager has to manually enter the dates for the week) 7. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:**  4a. No bugs were resolved in that week, display “0 bugs resolved this week” message | |

| **Name:** **View Report on Best Performed Developer** | **ID: #63** |
| --- | --- |
| **Stakeholders and Goals:** Triager - wants to know who is the best performed developer | |
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| **Description:** Triager is able to view which developer has solved the most bugs | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a list of reports | |
| **Normal Flow:**   1. The triager clicks on “Reports” button 2. The system shows list of reports 3. The triager clicks on “Best Performed Developer” 4. The system displays the name of all Developers and number of bugs resolved by them. The list will be displayed in descending order of the number of bugs resolved by each developer, hence showing the best performed developer at the top. 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **View Report on Best Performed Reporter** | **ID: #64** |
| --- | --- |
| **Stakeholders and Goals:** Triager - wants to know who is the best performed reporter | |
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| **Description:** Triager is able to view which reporter has reported the most bugs | |
| **Actors:** Triager | |
| **Trigger:** Triager chooses to view a list of reports | |
| **Normal Flow:**   1. The triager clicks on “Reports” button 2. The system shows list of reports 3. The triager clicks on “Best Performed Reporter” 4. The system displays the name of all Reporters and number of bugs reported by them. The list will be displayed in descending order of the number of bugs reported by each reporter, hence showing the best performed reporter at the top. 5. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **View “reviewed” bugs** | **ID: #482** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to view which bugs are already “reviewed” | |
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| **Description:** Triager can view which bugs have already been reviewed by a reviewer. | |
| **Actors:** Triager | |
| **Trigger:** Triager view “reviewed” bugs | |
| **Normal Flow:**   1. The triager clicks on “Close reports” 2. System will display a list of bugs which status is “reviewed” 3. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

| **Name:** **Close Bug Report** | **ID: #483** |
| --- | --- |
| **Stakeholders and Goals:** Triager - to close the bug report after it has been reviewed | |
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| **Description:** After the bug report has been marked as “reviewed”, a triager will close it to mark the end of the bug report. | |
| **Actors:** Triager | |
| **Trigger:** Triager wants to close a bug report that has been reviewed | |
| **Normal Flow:**   1. The triager views “reviewed” bugs 2. Triager enters bug id and clicks submit 3. The system updates the status of the bug from “reviewed” to “closed”. 4. End | |
| **Sub-Flows:** None | |
| **Alternative/Exceptional Flows:** None | |

**Use Case Summary (TBA)**

Actors in play : Bug reporter, Developer, Triager, Reviewer

| ID #001 - Perform by all actors | ID #011 - Perform by Triager |
| --- | --- |
| ID #002 - Perform by all actors | ID #012 - Perform by Triager |
| ID #003 - Perform by all actors | ID #013 - Perform by Triager |
| ID #004 - Perform by all actors | ID #014 - Perform by Triager |
| ID #005 - Perform by all actors | ID #015 - Perform by Triager |
| ID #006 - Perform by all actors | ID #016 - Perform by Triager |
| ID #007 - Perform by all actors | ID #017 - Perform by Triager |
| ID #008 - Perform by Developer | ID #018 - Perform by Reviewer |
| ID #009 - Perform by Developer | ID #019 - Perform by Bug Reporter |
| ID #010 - Perform by Developer |  |

| **Actor** | **Use Case ID involved** | **Total use case per actor** |
| --- | --- | --- |
| Perform by Bug Reporter | #001 - #007, #019 | 8 |
| Perform by Developer | #001 - #010 | 10 |
| Perform by Triager | #001 - #007, #011 - #017 | 14 |
| Perform by Reviewer | #001 - #007, #018 | 8 |