3.1 Functional Requirements

3.1.5 Bug Subsystem

This section captures functionalities that bug-tracking system provides to guest and user, including viewing bug detail, commenting on bug and marking interested bug.

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| **Requirement #:**  **FBG\_3.1.5\_1** | **Requirement Type:** Functional | **Use Case: G21** |
| Description: The system should provide a guest with a GUI to return to the default page of this system, the search subsystem. | | |
| Rationale: Guest wants to return to the start page. | | |
| Source: Guest | | |
| Fit Criterion: The system should turn to the default search page. | | |
| Dependencies: None | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FBG\_3.1.5\_2** | **Requirement Type:** Functional | **Use Case: U3** |
| Description: The system should provide a user with a GUI to go to the default page of background of the system. | | |
| Rationale: User wants to apply certain functions in the background. | | |
| Source: User | | |
| Fit Criterion: The system should turn to the default page of background. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FBG\_3.1.5\_3** | **Requirement Type:** Functional | **Use Case: G21** |
| Description: The system should provide a guest with a GUI to view the bug detail, comments and solution(if the bug has been solved). | | |
| Rationale: Guest wants to view the bug detail, comments and solution. | | |
| Source: Guest | | |
| Fit Criterion: The system should display bug detail in a form and display the comments below the form. If the bug has been solved, the solution should be displayed between the bug detail and comments. | | |
| Dependencies: None | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FBG\_3.1.5\_4** | **Requirement Type:** Functional | **Use Case: U31** |
| Description: The system should provide a user with a GUI to comment on the bug. | | |
| Rationale: User wants to comment on the bug. | | |
| Source: User | | |
| Fit Criterion: The system should store the comment in the database and display the comment in the comment list. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FBG\_3.1.5\_5** | **Requirement Type:** Functional | **Use Case: U2** |
| Description: The system should provide a user with a GUI to turn to the bug-submitting subsystem. | | |
| Rationale: User wants to submit bug. | | |
| Source: User | | |
| Fit Criterion: They system turn to the bug-submitting subsystem. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

3.1.6 Search Subsystem

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| **Requirement #:**  **FSH\_3.1.6\_1** | **Requirement Type:** Functional | **Use Case: G2** |
| Description: The system should provide a guest with a GUI to return to the default page of this system, the search subsystem. | | |
| Rationale: Guest wants to return to the start page. | | |
| Source: Guest | | |
| Fit Criterion: The system should turn to the default search page. | | |
| Dependencies: None | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FSH\_3.1.6\_2** | **Requirement Type:** Functional | **Use Case: U5** |
| Description: The system should provide a user with a GUI to go to the default page of background of the system. | | |
| Rationale: User wants to apply certain functions in the background. | | |
| Source: User | | |
| Fit Criterion: The system should turn to the default page of background. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FSH\_3.1.6\_3** | **Requirement Type:** Functional | **Use Case: U2** |
| Description: The system should provide a user with a GUI to edit the bug detail which is submitting to the system. | | |
| Rationale: User wants to edit the bug detail. | | |
| Source: User | | |
| Fit Criterion: The system should provide a bug detail form. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FSH\_3.1.6\_4** | **Requirement Type:** Functional | **Use Case: U2** |
| Description: The system should provide a user with a GUI to make description about the bug which is submitting. | | |
| Rationale: User wants to provide extra information about the bug. | | |
| Source: User | | |
| Fit Criterion: The system should provide a description window to facilitate user to give description. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential. | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

3.1.7 Report Subsystem

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| **Requirement #:**  **FRT\_3.1.7\_1** | **Requirement Type:** Functional | **Use Case: U4** |
| Description: The system should provide a user with a GUI to return to the default page of this system, the search subsystem. | | |
| Rationale: User wants to return to the start page. | | |
| Source: User | | |
| Fit Criterion: The system should turn to the default search page. | | |
| Dependencies: None | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FRT\_3.1.7\_2** | **Requirement Type:** Functional | **Use Case: U4** |
| Description: The system should provide a user with a GUI to go to the default page of background of the system. | | |
| Rationale: User wants to apply certain functions in the background. | | |
| Source: User | | |
| Fit Criterion: The system should turn to the default page of background. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FRT\_3.1.7\_3** | **Requirement Type:** Functional | **Use Case: U4** |
| Description: The system should provide a user with a GUI to designate the selecting criterion, including start date, end date, type(bug, developer, reviewer, reporter), condition(related to bug state). | | |
| Rationale: User wants to set the select criterion. | | |
| Source: User | | |
| Fit Criterion: The system should provide certain buttons to manifest the selecting criterion. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Enssential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |

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| **Requirement #:**  **FRT\_3.1.7\_4** | **Requirement Type:** Functional | **Use Case: U4** |
| Description: The system should provide a user with a GUI to show the report. | | |
| Rationale: User wants to view the report. | | |
| Source: User | | |
| Fit Criterion: The system should display the report in a the result window. | | |
| Dependencies: User has signed in the system. | | |
| Rank of importance: Essential | | |
| Supporting Materials: None | | |
| History: Created by Yixiang Fan on 31/08/2016 | | |