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| ID and name | Login | | |
| Primary actor | Employer | Secondary actors | Version Bug System |
| Description | An employer uses a terminal to authenticate providing their credentials to access the functions available to their accounts. | | |
| Trigger | A person who has an account registered wants to use the Version Bug System | | |
| Preconditions | PRE-1. The person has a registered account PRE-2. The person knows their login information | | |
| Postconditions | POST-1. The person is logged into the system POST-2. The functions are accessible to the user | | |
| Normal flow | 1.0 Login <ol style="list-style-type: none"> 1. The employer starts the Login process 2. The Version Bug System displays a form, requesting the login credentials. 3. The employer fills the form with the credentials associated with their account 4. The system checks the credentials and displays the Tester or Developer, depending on the type of the logged in account | | |
| Alternative flows | | | |
| Exceptions | 1.0.E1 Invalid credentials <ul style="list-style-type: none"> • The system informs the user that the credentials given do not match any existing account • Return to step 2 of normal flow | | |

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| ID and name | Deploy solution | | |
| Primary actor | Tester | Secondary actors | Version Bug System |
| Description | After a tester confirms that the solution resolved the bug, he will deploy solution and the bug will disappear from his list | | |
| Trigger | | | |
| Preconditions | PRE-1. The tester is logged in application | | |
| Postconditions | POST-1. The bug will disappear from list of resolved bugs POST-2. The bug will appear in a list of finished bugs | | |
| Normal flow | 2.0.Deploy Solution | | |

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| | <ol style="list-style-type: none"> 1. The tester opens the list of resolved bugs 2. The tester choose the one that he want to validate 3. He clicks on "Deploy Solution" 4. The system moves the bug in the list of finished bugs 5. The system displays "The solution was committed" |
| Alternative flows | |
| Exceptions | |

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| ID and name | Resend bug | | |
| Primary actor | Tester | Secondary actors | Version Bug System |
| Description | After a tester confirms that the solution didn't resolved the bug, he will resend it to developers and the bug will disappear from his list and appear to developers' unresolved list | | |
| Trigger | | | |
| Preconditions | PRE-1. The tester is logged in application PRE-2. The solution didn't resolve the bug | | |
| Postconditions | POST-1. The bug will disappear from list of resolved bugs POST-2. The bug will appear in the list with unresolved bugs | | |
| Normal flow | 3.0.Resend bug <ol style="list-style-type: none"> 1. The tester opens the list of resolved bugs 2. The tester choose the one that he done testing 3. He clicks on "Resend bug to developers" 4. The system moves the bug in the list of unresolved bugs 5. The system displays "The bug is resend for developers" | | |
| Alternative flows | | | |
| Exceptions | | | |

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| ID and name | Create new bug task | | |
| Primary actor | Tester | Secondary actors | Version Bug System |
| Description | A tester finds a bug in program, he opens a forms to create a new bug that will appear in unresolved list seen by developers | | |
| Trigger | | | |
| Preconditions | PRE-1. The tester is logged in application | | |
| Postconditions | POST-1. The bug will appear in the list with unresolved bugs | | |

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| Normal flow | 4.0Create new bug task <ol style="list-style-type: none"> 1. Tester will press a button “Create new bug” 2. The system will offer a form to tester 3. The tester fills the forms with the bug's details 4. The system will display “ The task was added successfully” 5. The system add the bug to unresolved bug list |
| Alternative flows | |
| Exceptions | 4.0.E1 Invalid data <ul style="list-style-type: none"> • The system informs the user that the bug information given is invalid. • Return to step 2 of normal flow |

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| ID and name | Accept task to repair bug | | |
| Primary actor | Developer | Secondary actors | Version Bug System |
| Description | The developer will choose a bug that he wants to try to resolve. A small description of the bug will appear and he has the option to accept this task | | |
| Trigger | | | |
| Preconditions | PRE-1. The developer is logged in application PRE-2. The developer had selected a bug to visualize | | |
| Postconditions | POST-1. The bug will disappear from unresolved list POST-2. The bug will appear in developer's on-going list | | |
| Normal flow | 5.0 Accept task to repair bug <ol style="list-style-type: none"> 1. Developer opens unresolved list of bugs 2. He choose one task that he would like to resolv 3. The system offers him some details about the task 4. He will accept this task by pressing a button(5.0.E1) 5. The system removes the bug from unresolved list of bugs 6. The system displays “Task was added to your list” 7. The system moves the task to developer on-going list | | |
| Alternative flows | | | |
| Exceptions | 5.0.E1 The task is already taken by another developer <ul style="list-style-type: none"> • The system informs the user that the bug was assign to another developer • Return to step 2 of normal flow | | |

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| ID and name | Send bug for testing | | |
| Primary actor | Developer | Secondary actors | Version Bug System |
| Description | After finishing the the task, developer will push the solution for testing | | |
| Trigger | | | |
| Preconditions | PRE-1. The developer is logged in application PRE-2. The developer finished his task | | |
| Postconditions | POST-1. The bug will disappear developer's on-going list POST-2. The bug will appear in tester's resolved bugs list | | |
| Normal flow | 6.0.Send bug for testing 1. The developer opens the list of on-going tasks 2. The developer choose the task he want to send for testing 3. He press "Send it to testing" 4. The system displays "The bug was sent for testing" | | |
| Alternative flows | | | |
| Exceptions | | | |

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| Planning | |
| 1st iteration | Database Authenticate – UI + Backend Create new bug - UI + backend Manage un-resolved bug - UI +backend |
| 2nd iteration | Manage resolved bugs - UI + backend Manage on-going tasks - UI +backend Accept task - UI + backend Send for testing - UI + backend |
| 3rd iteration | Resend bug - UI + backend Deploy solution - UI + backend Manage finished bugs -UI + Backend |