

**TESTORBIT**

**Document for TDD**

**(Technical Design Document)**

**Document Revision:**

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| --- | --- | --- |
|  |  |  |
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| 20-03-2020 | **1.1** | **Aishwarya V Pauskar** |
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|  |  |  |

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**Module Description in Detail**

**Business Rules of implementation:**

**[A]Project Manager Module:**

**[1]****Creation of module process:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column Name** | **Column Type** | **UI Element** | **Table** | **Description** |
| **MODULE\_ID** | **BIG INT** | **No UI** | **testorbit\_modules** | **AUTO-Generaed PK** |
| **MODULE\_NAME** | **VARCHAR(50) NOT NULL** | **Input Box** | **testorbit\_modules** |  |
| **MODULE\_DESC** | **VARCHAR(200)** | **Input Box** | **testorbit\_modules** |  |
| **PROJECT\_MANAGER\_ID** | **BIGINT** |  | **testorbit\_modules** | **Of current logged in Manager** |
| **TEST\_MANAGER\_ID** | **BIGINT** | **Drop Down** | **testorbit\_modules** | **Of test Managers who are currently not assigned to any active projects** |
| **MODULE\_STATUS** | **VARCHAR(10) NOT NULL** | **Drop Down** | **testorbit\_modules** | **Possible Values:**  **active,**  **inactive(Edit Only),**  **notStarted** |
| **CREAT\_DATE** | **DATE** | **No UI** | **testorbit\_modules** | **Current date of creation** |
| **END\_DATE** | **DATE** | **Date Picker** | **testorbit\_modules** | **As set in UI else Null.** |
| **START\_DATE** | **DATE** |  | **testorbit\_modules** |  |

**Impacts table : `testorbit\_modules`,`modules\_to\_testers`**

**Input Details:**

**Rules for Module Creation Process:**

**Modules Status:**

**Active: CREAT\_DATE set to current date, END\_DATE set to UI date else null, START\_DATE set to current date.**

**notStarted: CREAT\_DATE set to current date, END\_DATE set to null, START\_DATE set to null.**

**TEST\_MANAGER\_ID: If test manager has active testers assigned to him ,then update `modules\_to\_testers`only if the project status is active then set ‘Y’ .**

**[2]****Editing module process:**

**Rules for Module Edit Process:**

**Editable Fields with impact:**

**1)If Test Manager changes:**

**Change the Manager\_id field in the `testorbit\_user\_registration` for the testers in `modules\_to\_testers` with the current manager id.(Changing test manager reference for the testers currently in the module.)**

**If module has already testers then:**

**If new test manager already has testers assign them back to the project manager.**

**Else :**

**If test manager has active testers assigned to him ,then update `modules\_to\_testers` only if the project status is active then set ‘Y’ .**

**2 ) Modules Status:**

**Active: CREAT\_DATE no change, END\_DATE set to UI date else null, START\_DATE set to current date (if made active while edit else previously set date) .**

**Inactive(Only in edit): CREAT\_DATE no change, END\_DATE set current date, START\_DATE no change.**

**then update `modules\_to\_testers set project status to ‘N’ for the project that is made inactive .**

**notStarted: CREAT\_DATE no change, END\_DATE set to null, START\_DATE set to null.**

**[3]****Assign testers to Test Manager:**

**i) Can only assign active testers that are not assigned to any active modules[`modules\_to\_testers`-status ‘N’ and all other active testers],to active testmanagers.**

**ii) Change the Manager\_id field in the `testorbit\_user\_registration` for the tester assigned with the current testmanager id.**

**If Test manager has active project assigned to him :**

**then update `modules\_to\_testers set project status to ‘Y’ .**

**[4]****Approve User Registrations:**

**Users registering for testorbit (Other than Project manager ) have to choose the project manager under whom they are tagged.**

**Project Manager has to approve valid user registrations.**

**Click on Accept: User status is set to ‘Y’**

**Click on Reject : User status is set to ‘R’**

**[B]Test Manager Module:**

**[1]****Creation of task process:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column Name** | **Column Type** | **UI Element** | **Table** | **Description** |
| **TASK\_ID** | **BIG INT** | **No UI** | **TESTORBIT\_TASKS** | **AUTO-Generaed PK** |
| **TASK\_DESC** | **VARCHAR(200)** | **Input Box** | **TESTORBIT\_TASKS** |  |
| **MODULE\_ID** | **BIGINT** |  | **TESTORBIT\_TASKS** | **Of the currently assigned active module to test manager** |
| **TEST\_MANAGER\_ID** | **BIGINT** | **Drop Down** | **TESTORBIT\_TASKS** | **Of currently logged in test Managers.** |
| **TASK \_STATUS** | **VARCHAR(10) NOT NULL** | **Drop Down** | **TESTORBIT\_TASKS** | **Possible Values:**  **toDo,**  **started,**  **blocked(Edit sc only)**  **complete** **(Edit sc only)** |
| **CREAT\_DATE** | **DATE** | **No UI** | **TESTORBIT\_TASKS** | **Current date of creation** |
| **END\_DATE** | **DATE** | **Date Picker** | **TESTORBIT\_TASKS** | **As set in UI else Null.** |
| **START\_DATE** | **DATE** | **Date Picker** | **TESTORBIT\_TASKS** | **As set in UI else Null.** |

**Impacts table : ` TESTORBIT\_TASKS`, TESTORBIT\_TASKS\_TO\_TESTERS**

**Input Details:**

**Rules for Task Creation Process:**

**Task Status:To be coordinated with Module start date and end date**

**toDo: CREAT\_DATE set to current date, END\_DATE set to UI date else null, START\_DATE set to UI date or null in TASKs and TASKs to tester table.**

**inprogress: CREAT\_DATE set to current date, END\_DATE set to UI date else null, START\_DATE set to current date in TASKs and TASKs to tester table .UI start disabled .**

**[2] Task Edit process:**

**Rules for Task Edit Process:**

**toDo: CREAT\_DATE no change, END\_DATE set to UI date else no change, START\_DATE set to UI date or no change in TASKs and TASKs to tester table.**

**inprogress: CREAT\_DATE no change, END\_DATE set to UI date else no change, START\_DATE no change.UI start disabled . (if made active(previously todo) while edit then current date else previously set date) .**

**blocked: CREAT\_DATE no change, END\_DATE set to UI date else no change, START\_DATE no change. UI start disabled**

**complete: CREAT\_DATE no change, END\_DATE set to current date,, START\_DATE no change. UI start and end date disabled**

**[3] Approval of testcase:**

**Testmanager is able to view the list of testcases that are pending for approval.**

**Click on Approve: The status of the test case is changed from “*TESTCASE\_STATUS\_INVALID*” to “*TESTCASE\_STATUS\_VALID”.***

**Click on Reject: The status of the test case is changed from “*TESTCASE\_STATUS\_INVALID*” to “*TESTCASE\_STATUS\_REJECTED”.***

**[C]Tester Module:**

**[1]****Creation of test case process:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column Name** | **Column Type** | **UI Element** | **Table** | **Description** |
| **TESTCASE\_ID** | **BIG INT** | **No UI** | **TESTORBIT\_TEST\_CASES** | **AUTO-Generaed PK** |
| **TESTCASE\_INPUT** | **VARCHAR(500)** | **Input Box** | **TESTORBIT\_TEST\_CASES** |  |
| **TESTCASE\_OUTPUT** | **VARCHAR(500)** | **Input Box** | **TESTORBIT\_TEST\_CASES** | **Of the currently assigned active module to test manager** |
| **TESTCASE\_COMMENTS** | **VARCHAR(500)** | **Input Box** | **TESTORBIT\_TEST\_CASES** | **Of currently logged in test Managers.** |
| **TASK\_ID** | **BIGINT** |  | **TESTORBIT\_TEST\_CASES** |  |
| **TESTER\_ID** | **BIGINT** |  | **TESTORBIT\_TEST\_CASES** |  |
| **TASK \_STATUS** | **CHAR(1)** | **No UI** | **TESTORBIT\_TEST\_CASES** | **Possible Values:**  **toDo,**  **started,**  **blocked(Edit sc only)**  **complete** **(Edit sc only)** |
| **CREAT\_DATE** | **DATE** | **No UI** | **TESTORBIT\_TEST\_CASES** | **Current date of creation** |
| **END\_DATE** | **DATE** | **Date Picker** | **TESTORBIT\_TEST\_CASES** | **As set in UI else Null.** |

**Impacts table : TESTORBIT\_TEST\_CASES,** **TESTORBIT\_HISTORY**

**Input Details:**

**Rules for TestCase Creation Process:**

**Testcase Status(Only in Backend):**

***TESTCASE\_STATUS\_CREATED*** = 'C': For newly created test case

***TESTCASE\_STATUS\_VALID*** = 'Y': Approved

***TESTCASE\_STATUS\_INVALID*** = 'N'; Subimitted but not approved

***TESTCASE\_STATUS\_REJECTED*** = 'R';Rejected testcase

**Scenario:**

**[2]Updating the Task status by tester:**

**To-do: CREAT\_DATE no change, END\_DATE no change, START\_DATE no change.**

**Inprogress: CREAT\_DATE no change, END\_DATE no change , START\_DATE no change. (if made active while edit then current date else previously set date) .**

**blocked: CREAT\_DATE no change, END\_DATE set no change, START\_DATE no change.**

**complete: CREAT\_DATE no change, END\_DATE set to current date, START\_DATE no change.**

**[3]Send TestCase for Approval:**

**Post creation of the testcase,the tester has to get the testcase approved from testmanager,for its validity.Click on the “Send for approval” button.**

**The status of the test case is changed from “*TESTCASE\_STATUS\_CREATED*” to “*TESTCASE\_STATUS\_INVALID”.***

**Post approval from test manager the test case is now available for execution and the execution button is enabled.**

**[4]****Execute Test Cases:**

**On click of execute button, the tester can record if the testcase had passed or failed.The execution history is maintained based on the execution date.**

**[5]****View Execution History:**

**The tester can view the previous execution history of the test suits.**

**On click of View History.The tester has to select the date(list of dates on which these testcases were executed.)**

**On selection of date: A detailed summary of the following details is displayed, with the task testcase passed percentage,on the selected date**

