**Defects Tracking System**

**CS 633; Term project Milestone#1**

**Balsam Fathi**

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Requirements **Milestone 1**

* Define five users of the system (personas)
* Outline product scope and limitations
* Document five product requirements (stories) in a canonical form

Make sure requirements follow INVEST criteria (Independent, Negotiable, Valuable, Estimatable, Small, Testable)

**Personas:**

1. **Bruce Brown- submitter**- who is the employer of the company, he enters defects, assign user priority. He needs to be notified when assign development severity, resolving duplicates, fixing bugs, retest fixes, close records, distribute reports and analyze common trends. He is consulted sometimes.
2. **Pamela Slot- Developer**- she enters defects, assign development severity, fixes bugs. Pam is responsible for assigning user properties, and distributing reports. She is consulted when resolving duplicates, reproduces defects and close records.
3. **Steve Downey- Tester-** he enters defects, resolve duplicates, reproduce defects, and close records. Steve is informed when assigning user priority, and providing fixes, and distributing reports. He supports completing analyzing common trends.
4. **Chris Wilber- Guest**-: he will be entering defects and assigning priorities. And he will be informed for the rest of the tasks.
5. **Lesley Kline**- **Manager**- she is responsible for entering defects, analyzing common trends and distributing reports. She will be informed when assigning priorities, resolve duplicates, reproduce defects, provide fixes, retest fixes, and close records. And she will be accountable when assigning development severity.

**Scope and limitation for defect tracking system project**

It’s a software application specially designed for software companies for managing errors that are occurred in software development cycle.

**Project Goal:**

Software Company’s works on multiple projects simultaneously with many employees working on each project. In this process there must be effective methods to handle stages of project development. Bug tracking system is a web application where employees from any location can update issue details and solve issues and update to system

**Proposed System**

* Application helps is handling bugs , tracking old issues, updating solved issues, search for bug history and bug resolving.
* When Software bugs are updated to application latest versions are also updated. All details with users information is stored in database. Resolved issues are also updated to database.
* Searching priority is set based on status and operating system.
* Software helps project manager to look after bug hierarchy and analyze which user is allotted to which bug.
* Security is managed with authentication method for each user and user can update bug details by adding attachment.
* Software can store old bug details and help users to search records.

**Bug Tracking System Module Description:**

* Employee

This module is used by employees (coding team and testing team). Coding tem will update bugs details and updated to application whereas testing team will check bugs and update status.

* Manager

Project Manager , executives and coordinators who will look after team building and analyze total number of employee required for project development under different category.

* Administrator

  Admin will manage coders and testing team updating details. He will check updating details to reduce risk for employees.

**Limitations**

* The system will be compatible with google chrome, Mozilla Firefox, IE.
* The system will be available 24/7 all year long
* The system will send response back to the user in 1 second
* The system should get Max number of defects as 5000
* Number of users on the system in the same time should be no more than 15 people
* Number of defect states are 10
* Customers will be available to view defects
* Number of field defects should be no more than 20

**Defect tracking system limitation**

Max# of defect 5000

# Of concurrent users 15

# Of field defects 20

Field defects are entered yes

Customers are able to view defects Yes

# States 10

User response in seconds 1.0

**Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Role ( as a)** | **Action( I want to be able to)** | **Value( why)** |
| 1 | Exec manager | See how many defects reported by each developer | so I can get a measure competence of my developers |
| 2 | Project Manager | I want to be able to assign reports of defects on developers | So they fix bugs listed in these reports |
| 3 | Developers | I want to be able to access reports about defected code | so I can fix the bugs assigned to me and update the reports |
| 4 | Tester | I want to be able to retest the fixed bugs by entering the updated code with the fixed bug | So I can close their records as “fixed” state- if it's fixed- or flag it as not fixed in the report. |
| 5 | DB Admin | I want to be able to archive updated reports for defects | so I can have my database up to date with up to date reports and make it easy for other users to access the DB to start tasks |