Software Requirements Specification for Virtual Sticky Board for Agile Project Management

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April 22, 2011

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1 Introduction

This SRS describes the software functional and nonfunctional requirements for the first release of The Virtual Sticky Board for Agile Project Management System. This document is intended to be used by the members of the project team that will implement and verify the corrrect functioning of the system.

2 Overall Description

The virtual Sticky Board for Agile Project Management application complements the popular project management system Rally with the function of visualization. It will virtualize the experience of using sticky notes in the process of agile development, in which user stories represent a task belonging to a stage of development. The application should be compatible with Firefox and Chrome web browsers.

3 External Interface Requirements

A potential user is able to register an account and begin working on a new or join an existing project. A currently registered user is able to login and view projects he or she is working on. Each project has its own workspace that contains user stories, each in its respective stage of development, that can be added, removed, or moved around. Account data, user stories, and project releases are retrieved from a database and any modifications will be updated.

4 System Features

1. Each user has the ability to register, login, logout and edit their account.

2. A user may belong to multiple projects and a project may have multiple users.

3. A user is able to create/modify/remove the user stories(stickies) in the web application and save them in the database.

4. User Story Fields:
    - Title
    - Description
    - Date Created
    - Last Modified
    - Owner Name
    - Schedule State
    - Substate
5. User should be able to categorize the User Stories into these default states:
    - Backlog
    - In-Progress
    - Completed
    - Accepted
    - Published
6. If a user is in a state that has sub-states, then the User Story must also be assigned to one of the sub-states.
7. The user can categorize User Stories by color. Default color is white.
8. Display the User Stories under each corresponding state.
9. The vertical position of the User stories represents priority, and it should be persistent.
    - User should be able to move/drag around the sticky note from one state to another or from one position to another to change the priority.
    - Newly created User Stories have the lowest priority and will be put at the bottom of the list until the user re-arranges them.
10. Defects are also stickies similar to User Stories, but they contain additional fields that do not exist for User Stories.

11. Defect Fields
    - Title
    - Description
    - Date Created
    - Last Modified
    - Owner Name
    - Schedule State
    - Substate
    - Defect Priority
    - Defect State
    - Severity
12. Defect Priority Values
    - 1 - showstopper
    - 2 - high
    - 3 - medium
    - 4 - low
    - 5 - very low
13. Defect State value
    - Submitted
    - Open
    - Closed
    - Resolved
    - Junked
    - Verified
    - Unreproducable
    - Wait
14. Severity Values

- 1 - catastrophic
- 2 - severe
- 3 - moderate
- 4 - minor
- 5 - cosmetic
- 6 - enhancement

15. A project can have multiple releases. All User Stories and Defects are assigned to a release and the assignments can also be changed later. When viewing the sticky board, each release has its own view.

5 Other Nonfunctional Requirements

The application should process a query and show results within 3 seconds. The application should be secure by always checking the user input and should sanitize input to avoid common security attacks such as sql injection.