**Development Plan Overview: Agile Development Methodology**

Our team will employ Scrum framework which is an Agile software development that applies iteration model for project management and product development. Scrum identifies that value should be delivered in small cycles, which are fixed periods called sprints. A Sprint would take two weeks to be complete and this frequency of revisions would help accommodate new requirements as the project progresses.

Deliverables for the First Increment

1. User Stories

User Story 1:

* I want to be able to get a login session as a user so that I can be able to accessing some exclusive features.
  + Acceptance Criteria:
    - The user can enter a username, email and password to use in the application.
    - The system accepts inputs and checks their validity and gives an input on the contents.
    - There is always account creation to be made to facilitate the new user so when he or she enters the correct account information, then, it will be redirected to the dashboard.

User Story 2:

* As an administrator should be able to manage the users’ permission for security purposes.
  + Acceptance Criteria:
    - The list of all users can be viewed by the administrators.
    - Therefore, permissions can be granted, altered or can be withdrawn.
    - Worth mentioning are that changes are logged and documented for auditing purposes.

1. Product Backlog and Burndown Chart.

Product Backlog

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | User Story | Task | Priority | Story Points |
| US1 | Create account | Implement UI for account creation | High | 5 |
| US2 | Manage permissions | Create database schema for roles | High | 5 |

Burndown Chart

1. Sprint Planning

Sprint Goal: The account creation functionality as well as the permissions of an administrator

Sprint Backlog:

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Assigned To | Status |
| T1 | Implement account creation UI | Developer A | In Progress |
| T2 | Backend for account creation | Developer B | To Do |
| T3 | Database schema for roles | Developer A | To Do |

1. Sprint Backlog and Burndown Chart

Sprint Backlog: See the tasks under the section titled Sprint Planning.

Sprint Burndown Chart: (Best add a graph that illustrates the amount of effort left on the project throughout the Sprint.)

1. Sprint Review and Demonstration

Completed Work:

* Account creation has been successfully implemented.
* Work administrators can set permission parameters.

Stakeholder Feedback:

* account creation UI thus received positive response.
* They asked for the improvements of logging for permission changes.
* **Screenshots:** (Embed relevant UI screenshots.)

1. Retrospective

What Went Well:

* Possessing common understanding during the daily standup meetings.
* Regular completion of back end activities.

What Could Be Improved:

* better test coverage for the extreme conditions

Action Items:

* To enhance documentation there is need to improve on what needs to be done to change the situation
* Always include time for emergencies in case something like that crops up.

1. Design Screenshots : (Embed images of wireframes, UI designs, and any architecture diagrams here.)
2. Code or Repository URL

Repository URL: GitHub Repository

1. Velocity and Testing

Velocity: By using the story points the team managed to achieve 13 story points in this Sprint.

Testing Summary:

* Unit tests: The proposal was passed for all fundamental areas of focus.
* Integration tests: One problem analyzed and addressed.
* System tests: No defects found.

Refer to this document as the first increment of the Agile development process and deliver all needed artifacts approved for review and grading. Additional files such as figures, figures, and repository links and any other file that has an incorporation in the work are made available through an icon.