**SOFTWARE DEVELOPMENT TRACKER**

**INTRODUCTION**

**Purpose**

This application helps the organization or project manager track the development progress of the software they are developing.

**Scope**

The scope of the project is as follows:

* To build an application through which users can create a new account.
* The user shall log in to their account to check the user stories assigned to them.
* The user shall create a Kanban board for their project.
* The user(admin) shall add a project member who can access the Kanban board.
* The user shall create a new task or issue or card about particular user stories or requirements.
* The user shall update the status or progress of the particular user story.

**SOFTWARE INTERFACES:**

* Front-end : Angular
* Back-end: Django(python)
* Server: MongoDB running on linux server

**REQUIREMENTS**

**Functional Requirement**

The following is the functional requirement list:

* **User Registration :**

The system must have the provision so that the users should be able to create or register a new account.

* + Input:
    - The users shall fill out the new user registration form to create an account.
  + Process:
    - The user shall enter the name.
    - The user shall enter the email address.
    - The user shall enter the date of birth.
    - The user shall enter the password.
  + Output:
    - The new user registration form is filled out and submitted.
* **Login**:

The system must have a provision so that the user should be able to log in to their account.

* + Input:
    - The user shall enter the email address and password to login into their account.
  + Process:
    - The user shall enter an email address.
    - The user shall enter a password.
  + Output:
    - The user will be authenticated and will be logged in to their account.
* **Project Kanban Board Creation**:

The system must have the provision so that the user should be able to create a Kanban board for their project.

* + Input:
    - The user shall create Kanban board for their project.
  + Process:
    - The user shall enter the project name.
    - The user shall enter the column names or stage names.
  + Output:
    - The new project Kanban board will be created with multiple columns of stages.
* **Adding Members**:

The system must have the provision so that the user(admin) should be able to add members who can access the Kanban board.

* + Input:
    - The user shall add members to the project’s Kanban board.
  + Process:
    - The user shall click the add member button.
    - The user shall enter the name of the member.
    - The user shall add the member to the project.
  + Output:
    - The user will be added to the project so that the user shall get access to the Kanban board.
* **Creating User Story**:

The system must have the provision so that the user should be able to create user stories for the tasks or issues or bugs etc.

* + Input:
    - The user shall create a user story of task, issue, bug, etc.
  + Process:
    - The user shall enter the user story title.
    - The user shall enter the user story description.
    - The user shall select the assignee's name.
    - The user shall select the ‘reporting’ to name
    - The user shall enter the priority.
    - The user shall enter the status of the user story.
    - The user shall enter comments.
  + Output:
    - A new card for the user story will be created and it will be in the column.
* **Updating the User Story**:

The system must have the provision so that users should be able to update the progress of the user stories.

* + Input:
    - The user shall update the status of the progress for a user story.
  + Process:
    - The user shall select the progress status of the card.
  + Output:
    - The progress status of the card will be updated and it will be moved to the corresponding column.

**NON-FUNCTIONAL REQUIREMENTS:**

**Security:**

Only the user with login credentials can get authorized into the website and only the user with the role ‘admin’ can create a project and add members to the project.

**Performance:**

The web application’s load time should not be more than 5 seconds.

**Usability:**

The web application’s interface has to be user-friendly and easy to use.

**Reliablity:**

The user can check the status of the user story any time without failure.

**Availability:**

The users can create user stories on the web app throughout the week at any time. In the case of unplanned system downtime, all features will be available again within a few minutes.

**Environmental:**

The organization or project manager can track the progress of the software development at any time.