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.

- o 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.
  - o Input:
    - The user shall enter the email address and password to login into their account.
  - o Process:
    - The user shall enter an email address.
    - The user shall enter a password.
  - o 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.
  - o Input:
    - The user shall create Kanban board for their project.
  - o Process:
    - The user shall enter the project name.
    - The user shall enter the column names or stage names.
  - o 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.
  - o Input:
    - The user shall add members to the project's Kanban board.

  - o 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.
  - o 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.
  - o Input:
    - The user shall create a user story of task, issue, bug, etc.
  - o 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.
  - o 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.

- o Input:
  - The user shall update the status of the progress for a user story.
- o Process:
  - The user shall select the progress status of the card.
- o 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.