**Functional requirement**

***1. Efficient Task Creation:***

* The system should provide a "Create Task" functionality.
* Users must be able to input task details, including task name, description, and priority.

***2. Deadline Management:***

* Users should be able to set deadlines for tasks during task creation or later modification.
* The system must send notifications or reminders for approaching deadlines.

***3. Task Assignment:***

* The system should allow task assignment to specific team members.
* Users should be able to view and manage their assigned tasks.
* An option for reassignment of tasks should be provided.

***4. Real-time Progress Tracking:***

* The system must provide a real-time progress tracking mechanism.
* Visual representations like Kanban boards or Gantt charts should be available.
* Users should receive updates on task progress and completion in real-time.

***5. Progress Tracking:***

* Users should be able to add status updates and comments for each task.
* Notifications for important updates or changes in task status.

**6. Registration process**

* The user cannot be use our web application without login

**Non-Functional requirement**

***1. Performance:***

* The system should respond to user actions within a maximum of 2 seconds.
* It should be capable of handling concurrent users without significant performance degradation.

***2. Scalability:***

* The system should scale horizontally to accommodate an increasing number of users and tasks.
* It should handle a growing database of tasks and users without a significant impact on performance.

***3. Reliability:***

* The system should have an uptime of at least 99.9%.
* Regular backups should be performed, and data recovery procedures should be in place.

***4. Security:***

* The system must comply with industry standards for data security and privacy.
* Protection against common security threats such as SQL injection and cross-site scripting.

***5. Usability:***

* The user interface should be consistent across different devices and browsers.
* The system should be accessible to users with disabilities, following accessibility standards.

***6. Availability:***

* The system should be available 24/7, with planned maintenance communicated to users in advance.
* Redundancy and failover mechanisms should be in place to ensure continuous availability.

***8. Compatibility:***

* The system should be compatible with the latest versions of common web browsers.
* Compatibility with mobile devices and responsive design for various screen sizes.

***9. Documentation:***

* Comprehensive documentation for users, administrators, and developers.
* Clear guidelines on system setup, configuration, and troubleshooting.

***10. User-Friendly Interface:***

* The interface should be intuitive and easy to navigate.
* Responsive design for various devices.

***11. Customization of Task Shape:***

* Users should have the option to customize the visual representation of tasks, including shapes.
* A user-friendly interface for selecting and changing the shape of tasks.
* Support for various shapes, such as circles, rectangles, and custom shapes.

**Use Cases**

