# User Stories and Requirements

**Generated by Requirements Gathering Agent v2.1.2**
**Category:** core-analysis
**Generated:** 2025-06-10T15:06:21.674Z
**Description:** Comprehensive user stories following Agile format

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## Task Management System - User Stories

### I. Task Creation and Assignment

### A. Task Creator

1. **Story:** As a project manager, I want to create a new task with a title, description, due date, priority level, and assigned team member, so that I can effectively delegate work and track progress.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system allows inputting a task title (max 255 characters).
     - The system allows inputting a detailed description (supports Markdown).
     - The system allows selecting a due date from a calendar.
     - The system allows selecting a priority level from a predefined list (e.g., High, Medium, Low).
     - The system allows assigning the task to one or more team members from a list of existing users.
   - **Notes:** Depends on user authentication and user management functionality.
2. **Story:** As a team member, I want to be notified when a new task is assigned to me, so that I am aware of my responsibilities.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system sends an email notification upon task assignment.
     - The notification includes task title, due date, and assigned-by information.
     - The notification includes a link to the task in the application.
     - Users can customize notification preferences (e.g., email, in-app notification).
     - The system handles cases where email delivery fails gracefully.
   - **Notes:** Depends on email integration and notification system.
3. **Story:** As a project manager, I want to be able to assign a task to multiple team members, so that collaborative tasks can be efficiently managed.
   - **Priority:** Should Have
   - **Acceptance Criteria:**
     - The system allows selecting multiple users from the user list

during task creation.
- Each assigned user receives an individual notification.
- Task progress is tracked individually for each assigned user.
- The system clearly indicates multiple assignees on the task details page.
- The system handles cases where one assignee completes the task before others.

**B. Task Assignee**

4. **Story:** As a team member, I want to be able to accept or reject a task assignment, so that I can manage my workload effectively.
   - **Priority:** Should Have
   - **Acceptance Criteria:**
     - The system provides clear options to accept or reject a task assignment.
     - Upon rejection, the task is unassigned and the assignor is notified.
     - Upon acceptance, the task is added to the assignee's personal task list.
     - The system prevents users from accepting tasks exceeding their workload limit (if configured).
     - The rejection reason can be optionally provided.

**II. Progress Tracking**

5. **Story:** As a project manager, I want to see the overall progress of each task and the project as a whole, so that I can monitor project health and identify potential delays.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system displays a progress bar for each task, reflecting completion percentage.
     - The system provides a visual representation of overall project progress (e.g., Gantt chart, Kanban board).
     - The system allows filtering and sorting tasks by progress status.
     - Progress updates are reflected in real-time or near real-time.
     - The system provides customizable progress reporting options.

6. **Story:** As a team member, I want to update the progress of my tasks, so that the team has an accurate view of the project status.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system allows updating task progress (e.g., percentage complete).
     - Progress updates are automatically reflected in the overall project progress view.
     - The system allows adding comments to progress updates.
     - The system tracks the timestamp of progress updates.
     - The system handles cases where progress is updated incorrectly.

### III. Team Collaboration

7. **Story:** As a team member, I want to be able to add comments to tasks, so that I can collaborate with my teammates and provide updates.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system allows adding text comments to tasks.
     - Comments display timestamps and user information.
     - Comments are displayed in chronological order.
     - The system supports threaded comments for better organization.
     - The system notifies relevant team members of new comments (optional).

### IV. Due Date Management

8. **Story:** As a project manager, I want to set due dates for tasks, so that I can manage deadlines effectively.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system allows setting a due date for each task.
     - The system displays tasks with upcoming due dates prominently.
     - The system sends reminders to users about approaching due dates (configurable).
     - The system allows editing due dates.
     - The system handles overdue tasks and highlights them appropriately.

### V. Priority Levels

9. **Story:** As a project manager, I want to set priority levels for tasks, so that my team can focus on the most important tasks first.
   - **Priority:** Must Have
   - **Acceptance Criteria:**
     - The system allows assigning a priority level (e.g., High, Medium, Low) to each task.
     - Tasks are displayed in order of priority.
     - The system allows filtering tasks by priority level.
     - Priority levels are clearly visible in task listings.
     - The system handles changes in priority levels effectively.

### VI. File Attachments

10. **Story:** As a team member, I want to attach files to tasks, so that I can share relevant documents and resources with my team.
    - **Priority:** Should Have
    - **Acceptance Criteria:**
      - The system supports uploading various file types (e.g., .pdf, .docx, .jpg).
      - The system displays file names and sizes.

- The system allows downloading attached files.
- The system limits file size to prevent abuse.
- The system provides version control for uploaded files (optional).

## VII. Non-Functional Requirements

11. **Story:** As a user, I want the application to be responsive and performant, so that I can work efficiently without delays.
    - **Priority:** Must Have
    - **Acceptance Criteria:**
        - Page load times are under 2 seconds.
        - The application remains responsive even under heavy load.
        - The application is optimized for mobile devices.
        - The application is accessible to users with disabilities.
        - The application meets performance benchmarks defined in the performance testing plan.
12. **Story:** As a system administrator, I want the system to be secure and protect user data, so that sensitive information remains confidential.
    - **Priority:** Must Have
    - **Acceptance Criteria:**
        - The system implements robust authentication and authorization mechanisms.
        - User data is encrypted both in transit and at rest.
        - The system complies with relevant data privacy regulations.
        - Regular security audits and penetration testing are conducted.
        - The system incorporates appropriate logging and monitoring capabilities.

These user stories provide a solid foundation for the Task Management System project. Further refinement and expansion might be needed during the project's iterative development process.