

# Sample Sprint Backlog for Task Management PBIs

## Sprint Goal

Deliver the core task management functionality, enabling project managers to assign tasks to team members, notify them via email, and track assignment history within the project management tool.

**Sprint Duration:** 2 weeks (e.g., September 15, 2025 – September 26, 2025)

## Team Capacity

- Team: 4 developers, 1 Scrum Master, 1 Product Owner
- Total capacity: 160 hours (assuming 4 developers x 40 hours each, adjusted for meetings and other activities)

## Selected PBIs and Tasks

Below are the three PBIs from the Task Management user story, decomposed into tasks with estimated hours and assignees. Each PBI includes its acceptance criteria for reference.

### PBI 1: Task Assignment Interface

**User Story:** As a project manager, I want to select a team member from a dropdown list when creating a task so that I can assign the task to the appropriate person.

#### Acceptance Criteria:

- GIVEN I am logged in as a project manager and creating a new task, WHEN I access the assignee field, THEN I see a dropdown list populated with all active team members' names.
- GIVEN I am creating a task and have selected a team member from the dropdown, WHEN I save the task, THEN the task is assigned to the selected team member and stored in the database.
- GIVEN I am creating a task and no team members are available, WHEN I access the assignee field, THEN the dropdown displays a message like "No team members available" and the save button is disabled.

#### Tasks:

1. **Develop frontend dropdown for team member selection**
  - Description: Create a UI component for a dropdown that fetches and displays team member names.
  - Estimated Effort: 3 hours
  - Assignee: Developer A
2. **Create API endpoint to fetch team member list**

- Description: Build a backend API to retrieve active team members from the database.
  - Estimated Effort: 2 hours
  - Assignee: Developer B
3. **Implement task assignment save functionality**
    - Description: Develop backend logic to save the selected team member's ID with the task in the database.
    - Estimated Effort: 3 hours
    - Assignee: Developer B
  4. **Handle empty team member list scenario**
    - Description: Add frontend logic to display "No team members available" and disable the save button when the list is empty.
    - Estimated Effort: 1 hour
    - Assignee: Developer A
  5. **Test task assignment interface**
    - Description: Write unit and integration tests for the dropdown and save functionality; perform QA testing.
    - Estimated Effort: 2 hours
    - Assignee: Developer C

**Total Effort for PBI 1:** 11 hours

## **PBI 2: Task Assignment Notification**

**User Story:** As a project manager, I want the system to send an email notification to the assigned team member so that they are informed of their new task.

### **Acceptance Criteria:**

- GIVEN I have assigned a task to a team member, WHEN the task is saved, THEN an email is sent to the team member's registered email address with the task title, description, and due date.
- GIVEN a task has been assigned, WHEN the email notification is sent, THEN the email contains a clear subject (e.g., "New Task Assigned: [Task Title]") and a link to view the task in the tool.
- GIVEN the email service is unavailable, WHEN a task is assigned, THEN the system logs the failure and displays a warning to the project manager without interrupting the task assignment.

### **Tasks:**

1. **Integrate email service for notifications**
  - Description: Set up integration with an email service (e.g., SendGrid) to send notifications.

- Estimated Effort: 3 hours
  - Assignee: Developer C
2. **Develop email template for task assignment**
    - Description: Create a formatted email template including task title, description, due date, and a link to the task.
    - Estimated Effort: 2 hours
    - Assignee: Developer C
  3. **Implement backend logic to trigger email on task assignment**
    - Description: Add logic to send an email when a task is assigned and saved.
    - Estimated Effort: 3 hours
    - Assignee: Developer B
  4. **Handle email failure scenarios**
    - Description: Implement error logging and display a warning to the project manager if the email fails to send.
    - Estimated Effort: 2 hours
    - Assignee: Developer B
  5. **Test email notification functionality**
    - Description: Write integration tests for email sending and error handling; perform QA testing with a mock email server.
    - Estimated Effort: 3 hours
    - Assignee: Developer D

**Total Effort for PBI 2:** 13 hours

### **PBI 3: Task Assignment History**

**User Story:** As a project manager, I want to view the assignment history of a task so that I can track who was assigned and when.

#### **Acceptance Criteria:**

- GIVEN I am viewing a task in the project management tool, WHEN I select the history tab or section, THEN I see a list of all assignment events, including the team member's name, date, and time of assignment.
- GIVEN I am viewing the task assignment history, WHEN I sort the history by date, THEN the list is ordered chronologically, with the most recent assignment at the top.
- GIVEN I am viewing a task that has never been assigned, WHEN I access the history section, THEN I see a message like "No assignment history available."

#### **Tasks:**

1. **Design UI for task assignment history**
  - Description: Create a history tab or section to display assignment events with team member names, dates, and times.

- Estimated Effort: 3 hours
  - Assignee: Developer A
2. **Create database schema for assignment history**
    - Description: Design and implement a database table to store task assignment events (task ID, team member ID, timestamp).
    - Estimated Effort: 2 hours
    - Assignee: Developer D
  3. **Develop backend logic to log assignment events**
    - Description: Add logic to record each task assignment in the database with relevant details.
    - Estimated Effort: 2 hours
    - Assignee: Developer D
  4. **Implement sorting functionality for history**
    - Description: Add frontend and backend logic to sort assignment history by date.
    - Estimated Effort: 2 hours
    - Assignee: Developer A
  5. **Handle empty history scenario**
    - Description: Add frontend logic to display "No assignment history available" for unassigned tasks.
    - Estimated Effort: 1 hour
    - Assignee: Developer A
  6. **Test assignment history functionality**
    - Description: Write unit and integration tests for history logging and display; perform QA testing.
    - Estimated Effort: 2 hours
    - Assignee: Developer C

**Total Effort for PBI 3:** 12 hours

### **Total Sprint Effort**

- **PBI 1:** 11 hours
- **PBI 2:** 13 hours
- **PBI 3:** 12 hours
- **Total:** 36 hours