**Requirement Elicitation 1:**

**Task Creation and Management:**

1. **Kanban Board**:
   * Utilize a Kanban board for task management.
   * Leftmost column should have the tasks.
2. **Product Backlog**:
   * Create and manage tasks within a product backlog.
   * Sort backlog tasks with options:
     + Recent to older.
     + Older to recent.
3. **Task Attributes**:
   * **Types of Tasks**:
     + **Story Type**: New user stories or features.
     + **Bug**: For technical issues.
   * **Task Naming**: Clearly define task names.
   * **Story Points**: Assign story points to tasks to indicate complexity.
   * **Tags**: Use tags (labels) for categorizing and filtering tasks.
   * **Priority**: Set task priorities to manage workflow effectively.
   * **Task Assignment**: Assign one person to handle each task.
   * **Description Field**: Include a space for task descriptions/comments.
   * **Task Status**: Track task status with categories like 'Not Started', 'In Progress', and 'Completed'.
   * **Task History**: Maintain a history of who edited the task and what changes were made.
   * **Task Sorting**: Enable sorting of tasks based on:
     + Priority.
     + Date (sort from recent to older or older to recent).

**Design and Accessibility:**

1. **Color Scheme**:
   * Client prefers a dim color palette, specifically blue.
   * No need for subtasks.
2. **Platform and Access**:
   * The software should be accessible online.
   * Accessibility across different devices:
     + Primarily for office PCs.
     + Better if also accessible via laptops or phones.

**User stories:**

| **AS A** | **I WANT** | **SO THAT** |
| --- | --- | --- |
| User | create task | i can know the state of the task. |
| task manager | have a kanban board | I can visualise my tasks |
| product manager | to be able to filter by priority | i can track my tasks based on importance |
| user | search task | so i can quickly find the tasks I want to work on |
| admin | to have different views of my tasks (list and card) | so that it is easier to manage. |
| scrum master | to have a timeline page | I can manage my tasks according to deadlines |
| client | accessible through the internet | so that i can access the project management website |
| task manager | to have a schedule tracker with my group | I can arrange meetings if necessary |
| user | all of the task to be stored in the backlog | i can keep track of them before i start a sprint |
| user | to have a search function |  |
|  | to be able to create epic | organise large pieces of work efficiently |
| scrum master | to be able to start the sprint | the team can begin working on the prioritised tasks |
|  |  |  |
|  |  |  |
|  |  |  |

**User Stories**

## **Epic: Task Management**

1. **User Story: Task Creation**
   * **As a** user, **I want to** add a new task **so that** I can create new issues to be completed, which is to be stored in the product backlog.
   * **Tags:** Developer
   * **Priority:** High
   * **Story Points:** 6
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + A functional "Add Task" button should be made.
     + The task creation form includes required fields: Task Name, Task Type, Task Stage, Story Points, Priority, Tags, Task Status, Assignee (optional) and Description.
2. **User Story: Task Type Specification**
   * **As a** user, **I want to** specify the task type (Story or Bug) of my tasks in the product backlog **so that** I can categorise tasks appropriately.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 4
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task creation form includes a dropdown for selecting "Story" or "Bug".
3. **User Story: Task Stage Assignment**
   * **As a** user, **I want to** assign a task stage (Planning, Development, Testing, Integration) to my tasks in the product backlog **so that** I can track the stage of each task.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 3
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task creation includes a dropdown with fixed options for selecting the task stage.
     + The fixed options are Planning, Development, Testing & Integration.
4. **User Story: Priority Setting**
   * **As a** user, **I want to** set the priority of a task (Low, Medium, Important, Urgent) **so that** I can prioritise work based on urgency which will be sorted and colour-coded in the product backlog.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 3
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task creation form includes fixed options for selecting task priority.
     + Fixed options are Low, Medium, Important and Urgent.
     + Priorities are colour coded.
5. **User Story: Story Points Allocation**
   * **As a** user, **I want to** allocate story points (1-10) to tasks **so that** I can estimate the effort required for each task and plan for the sprint accordingly.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 3
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task form includes a numeric field for assigning story points between 1 and 10.
6. **User Story: Task Editing**
   * **As a** user, **I want to** be able to edit existing tasks in the product backlog **so that** I can update details as needed.
   * **Tags:**
   * **Priority:** High
   * **Story Points:** 5
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + An "Edit" option is available for each task.
7. **User Story: Assignee allocation**
   * **As a** user, **I want to** be able to assign tasks to team members **so that** roles and responsibilities are clear.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 3
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task form includes an **optional** assignee field.
     + The options for assignees are fixed.
8. **User Story: Task Status Setting**
   * **As a** user, **I want to** set the status of a task (Not Started, In Progress, Completed) **so that** the team knows the current state of each task.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 3
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + The task form includes a dropdown with fixed options.
     + Fixed options are Not Started, In Progress and Completed.
9. **User Story: Task Deletion**
   * **As a** user, **I want to** be able to delete tasks in the product backlog **so that** I can remove outdated or unnecessary tasks from the system.
   * **Tags:**
   * **Priority:** Medium
   * **Story Points:** 2
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
     + A "Delete" option is available for each task.
     + Tasks are removed from the system and backlog immediately upon deletion.
10. **User Story: View Task History**
    * **As a** user, **I want to** be able to view a task's history in the task details **so that** I can track changes and updates over time.
    * **Tags:**
    * **Priority:** High
    * **Story Points:** 5
    * **Assignee:**
    * **List of tasks:**
    * **Acceptance Criteria:**
      + A history log is accessible from the task details view.
      + The log displays which user modified the task with timestamps.
11. **User Story: Tags setting**
    * **As a** user, **I want to** be able to set tags for my task **so that** I can categorise tasks based on the department they are related to, which will be colour coded and visible on the product backlog.
    * **Tags:**
    * **Priority:** Medium
    * **Story points:** 3
    * **Assignee:**
    * **List of tasks:**
    * **Acceptance Criteria:**
      + The task creation includes a dropdown for selecting the tags.
      + 8 fixed options: Frontend, Backend, API, Database, Framework, Testing, UI, and UX.

## **Epic: Product Backlog**

1. **User Story: Filter by tags**
   * **As a** user, **I want to** sort the task in the backlog by Tags Only, **So that** i can see what kind of tasks based on their specified roles.
   * **Tags:**
   * **Priority:**
   * **Story Points:**
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
2. **User Story: Main View**
   * **As a** user, **I want to** see a list of tasks that have not started yet, **So that** i can see which tasks that needs to be added to the sprint?
   * **Tags:**
   * **Priority:**
   * **Story Points:**
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
3. **User Story: Tasks Views**
   * **As a** Product Owner, **I want to** be able to move the unstarted task to the sprint before it starts, **So that** i can plan which task to do during the sprint
   * **Tags:**
   * **Priority:**
   * **Story Points:**
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
4. **User Story: Task History**
   * **As a** Product Owner, **I want to** be able to see the history of changes that happen to the task, **So that** i can see what has changed and when the changes happen
   * **Tags:**
   * **Priority:**
   * **Story Points:**
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**
5. **User Story: Task History (Sort)**
   * **As a** Product Owner, **I want to** see that the task history is sorted from recent to oldest, **So that** i can see the latest update on the task
   * **Tags:**
   * **Priority:**
   * **Story Points:**
   * **Assignee:**
   * **List of tasks:**
   * **Acceptance Criteria:**