To-do List Application - UI Specification

Overview

The To-do List application allows users to create, update, delete, and manage tasks with different priority levels. This document outlines the visual layout, component functionality, and interactions of the UI.

1. Main Layout

1.1 Page Structure

- **Header**: Displays a title "To-do List" and includes an action link to "Remove all todos."
- **To-do List Table**: A table that lists each task along with its priority, title, and action buttons for editing or removing tasks.
- **New Task Form**: A form to add new to-do items, which includes a priority dropdown, a title input, and an "Add new" button.

2. Components

2.1 Message Alert Box

- **Purpose**: Displays notifications such as success or error messages.
- **Style**: Located at the top of the to-do list table.
  - `msg` class: Visible with a background color (#250000ad), white text, and centered alignment.
  - `nomsg` class: Hidden from view.
- **Interaction**: Clicking the "clear" link will hide the message.

2.2 To-do List Table

- **Table Structure**:
  - Header Row: Contains "Priority," "Title," and "Actions" columns.
  - Data Rows: Each row represents a single to-do item, showing its priority (with color-coded badges), title, and action buttons.
  - New Task Row: Located at the bottom, this row includes the form for adding a new to-do item.
- **Style**: Table rows have alternating colors for readability, with header cells styled in a green background and bold text.
- **Interactions**:
  - **Edit Button**: Allows the user to modify an existing to-do item's title and priority.
  - **Remove Button**: Prompts the user with a confirmation dialog to delete the item.

2.3 Priority Badge

- **Display**: Each to-do item has a priority level shown through a colored badge next to the task title.
  - **Critical** (`badge-2`): Red background with the text "critical".
  - **Moderate** (`badge-1`): Yellow background with the text "moderate".
  - **Optional** (`badge-0`): Cyan background with the text "optional".
- **Style**: Rounded, with a consistent font size across all badges.

3. New To-do Form

3.1 Priority Dropdown

- **Options**:
  - **Critical** (value = `2`)
  - **Moderate** (value = `1`)
  - **Optional** (value = `0`)
- **Default**: No priority selected by default.
- **Validation**: Users must select a priority to save a new task.

3.2 Title Input Field

- **Type**: Text input with placeholder "Enter a new to-do".
- **Validation**: The field is required; an error message is displayed if the field is empty upon submission.

3.3 Add New Button

- **Action**: Adds a new to-do item to the list when clicked.
- **Validation Feedback**: If either the priority or title is missing, an error message displays in the message alert box.

4. User Interactions and Behavior

4.1 Adding a New To-do Item

- **Action**: User selects a priority, enters a title, and clicks "Add new".
- **Expected Outcome**: The new to-do appears in the table with the chosen priority badge, title, and edit/remove options.
- **Error Handling**: If the title is empty, an error message appears in the alert box.

4.2 Editing a To-do Item

- **Action**: User clicks "Edit" on an existing to-do, modifies the title and priority, then clicks "Add new".
- **Expected Outcome**: The updated details replace the previous task details.
- **Error Handling**: If the title is empty during an update, an error message appears in the alert box.

4.3 Removing a To-do Item

- **Action**: User clicks "Remove" and confirms the deletion in the dialog box.
- **Expected Outcome**: The item is removed from the list.

4.4 Clearing Messages

- **Action**: User clicks the "clear" link in the message alert box.
- **Expected Outcome**: The alert box is hidden.

4.5 Removing All To-do Items

- **Action**: User clicks "Remove all todos" link, confirms in the dialog box.
- **Expected Outcome**: All to-do items are removed from the list.

5. Styling Guide

5.1 Colors

- **Primary Green (Header)**: #04AA6D
- **Critical Badge**: rgba(255, 30, 0, 0.712)
- **Moderate Badge**: rgba(200, 255, 0, 0.877)
- **Optional Badge**: rgba(0, 238, 255, 0.877)
- **Error Message Background**: #250000ad

5.2 Font

- **Family**: Avenir, Helvetica, Arial, sans-serif
- **Size**: Base font size is 16px, with badge and message font size at 12px.

6. Testing

All the testcase are defined based on acceptance criteria defined for this feature

Acceptance criteria	Testcase	Expected result	Pass/Fail	Remark
List to-do items in a readable format (grid, list, etc.) with the appropriate priority displayed	Verify all the todo is listed properly with appropriate priority.	UI should display all the to-dos in a grid view with columns "Priority", "Title" and "Actions"	✅	
Add a new item to the list with an assigned priority.	User should be able to add a new todo with a priority.	A new todo should be added in the todo list with an assigned priority.	✕	Issue found while testing this AC , a new Jira ticket was created and assigned to the developer.
Remove an item from the list	User should be able delete a todo.	The deleted todo should be removed from the list of to-dos.	✅	

7. Design Issues

Open Issues	Owner	Action items
While adding a new todo item i need to have an assigned priority, while priority to select by default ?	Abc	Will create a Jira ticket and follow up.

8. Future Enhancements

- **Task Due Dates**: Add optional due dates for each to-do.
- **Filters**: Add filters for priority and completed tasks.

- **Drag-and-drop Sorting**: Allow users to prioritize tasks by dragging items in the list.