# Step-By-Step Blueprint To-Do List App With The Requested Features:

# **Blueprint for To-Do List App**

#### 1. Core Features

#### 1. Categorization of Tasks:

- Two main categories:
  - 1-Day to 7-Day Tasks: For short-term goals or urgent tasks.
  - **1-6 Month Goals:** For long-term objectives.

# 2. Countdown Timer:

- o Real-time countdown showing the remaining time for each task.
- Updates every second.

# 3. Task Management:

- o **Add Tasks:** Users can add tasks with:
  - Task Name
  - Category (Dropdown: "1-Day to 7-Day" or "1-6 Month")
  - Due Date (using a date picker)
  - Notes (optional)
- o **Edit Tasks:** Users can modify task details if needed.
- o **Delete Tasks:** Remove completed or unnecessary tasks.

# 4. Task Status:

- o Mark as Completed: Allow tasks to be marked as done with a visual indicator.
- o **Overdue Tasks:** Highlight tasks past their due date (e.g., with red text).

# 2. UI/UX Design

# 1. Task Input Form:

- o Inputs: Task Name, Category, Due Date, Notes.
- o Submit button: "Add Task."

#### 2. Task Display:

- Two sections for tasks:
  - 1-Day to 7-Day Tasks
  - 1-6 Month Goals
- Each task card displays:
  - Task name
  - Countdown (e.g., "2 days left" or "1 month left")
  - Edit/Delete icons

- Visual indicators for:
  - Green = Completed
  - Yellow/Orange = Due Soon
  - Red = Overdue

# 3. Responsiveness:

o Ensure the app works on desktop and mobile.

#### 3. Functionalities

#### 1. Add New Task:

- o Validate input (e.g., ensure the due date is valid).
- o Append the task to the appropriate category.

#### 2. Countdown Timer:

o Use JavaScript setInterval to update the timer in real-time.

#### 3. Edit Task:

o Provide an edit option (e.g., a modal form or inline editing).

#### 4. Delete Task:

Allow users to delete tasks with a confirmation prompt.

# 5. Mark as Completed:

- o Update the task's state visually (e.g., strike-through).
- o Move to a separate "Completed" section (optional).

#### 6. Save Data:

o Use localStorage to save tasks persistently.

# 4. Data Structure

• Use an array of objects to store tasks:

```
id: 1,
  name: "Complete assignment",
  category: "1-Day",
  dueDate: "2025-02-01T12:00:00",
  notes: "Finish math assignment",
  completed: false
},

{
  id: 2,
  name: "Plan vacation",
  category: "6-Month",
  dueDate: "2025-08-01T12:00:00",
  notes: "Book tickets and accommodations",
  completed: false
}
```

# 5. Steps to Build

#### 1. **HTML Setup:**

- **Header:** App name/title.
- o **Form Section:** Inputs for task name, category, due date, notes, and add button.
- o **Task Sections:** Two sections for:
  - "1-Day to 7-Day Tasks."
  - "1-6 Month Goals."

# 2. CSS Styling:

- o Use a clean layout with colors to differentiate categories.
- o Add responsiveness for mobile devices.

# 3. JavaScript Logic:

- Create an array to store tasks.
- Write functions for:
  - Adding tasks
  - Editing tasks
  - Deleting tasks
  - Countdown timer logic
- o Update the UI dynamically based on task states.

# 4. LocalStorage Integration:

- o Save task data to local Storage on every action.
- Load data on page load.

#### 5. **Testing:**

- Test all features:
  - Adding, editing, deleting tasks.
  - Countdown accuracy.
  - Data persistence with localStorage.

# **6. Advanced Features (Optional)**

# 1. Search and Filter:

- Add a search bar to find tasks by name.
- o Filter tasks by category or status (completed, overdue, etc.).

#### 2. Notifications:

o Use browser notifications for reminders (e.g., 1 hour before a task is due).

#### 3. Dark Mode:

o Add a toggle to switch between light and dark themes.

# 4. **Drag-and-Drop:**

o Allow reordering of tasks for better organization.

# Ui/Ux Design:

