

# Task Manager with CRUD Operations

## Objective

Build a simple task manager implementing full MVC separation.

## Requirements

1. **Model** (`Task.java`):
  - o Properties: id, title, description, status (Pending/Completed), dueDate
  - o Use `java.time.LocalDate` for dueDate
2. **Controller** (`TaskControllerServlet.java`):
  - o Handle different actions using request parameter `action`:
    - add: Create new task
    - update: Mark task as completed
    - delete: Remove task
    - list: View all tasks
  - o Maintain task list in application scope (`ServletContext`)
3. **DAO Layer** (`TaskDAO.java`):
  - o Create a DAO class with
    - methods: `addTask()`, `getAllTasks()`, `updateTaskStatus()`, `deleteTask()`
  - o Store tasks in an in-memory list (no database required)
4. **Views:**
  - o `task-form.jsp`: Form to add new task
  - o `task-list.jsp`: Display tasks in a table with complete/delete buttons
  - o Use JSTL core tags for iteration

## Key MVC Concepts to Implement

- **Controller**: Servlet handles all requests and delegates to DAO
- **Model**: Task class + DAO for business logic/data access
- **View**: JSPs only display data, no Java code in scriptlets