

# Task Manager with CRUD Operations

## Objective

Build a simple task manager implementing full MVC separation.

## Requirements

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