***Report***

I have completed the Sprint 2 Day 6 assignment by creating a full Todo List web application using Spring MVC for the backend and modern ES6+ features for the frontend.

The backend is configured using web.xml, spring-servlet.xml, and a TodoController.java class that handles RESTful GET and POST requests. The controller is mapped under the base package com.nisum.controller and responds to /api/todo endpoints as configured.

The frontend is built using an index.html file that includes a fully working Todo UI and integrates the following ES6+ features as required:

let and const for variable declarations

Arrow functions for methods and event handlers

Template literals for dynamic HTML generation

Default parameters in class constructors and methods

Destructuring assignment for task parsing

Spread and rest operators in data handling

Enhanced object literals for task creation

Classes for Task and TodoApp structure

Promises with fetch() for API communication

Modules (via type="module" and placeholder import)

Iterators and for...of loop in task rendering

Generators used in the custom taskIterator()

Map, Set, WeakMap, WeakSet for task management

Symbol for private task IDs

Object.assign() for object merging

Object.is() for strict comparisons

Array.from() for transforming fetched tasks

The pom.xml is configured for Java 17 and WAR packaging, with necessary Spring MVC, Jackson, JSTL, and Servlet API dependencies.

Overall, the project demonstrates all 18 required ES6 features in the frontend and a working RESTful backend using Spring MVC deployed via Tomcat.

Links:

Main repository:

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/tree/main/assignment6>

War:

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/blob/main/assignment6/target/assignment6.war>

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/blob/main/assignment6/src/main/webapp/WEB-INF/spring-servlet.xml>

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/blob/main/assignment6/src/main/webapp/WEB-INF/web.xml>

xml:

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/blob/main/assignment6/pom.xml>

Js/Html:

<https://github.com/Shiv-Sunder-Dash/sprintnisumpart2/blob/main/assignment6/src/main/webapp/index.html>