# Overview of the Implementation Strategy

1. **Testing Framework:**
   * The tests are implemented using **Selenium WebDriver** for browser automation and **TestNG** for test execution.
2. **Design Approach:**
   * Each test case corresponds to a specific scenario derived from the application's acceptance criteria such as adding, editing, marking, or filtering todos.
   * Test cases are modular and reusable, ensuring maintainability and scalability.
3. **Dynamic Element Handling:**
   * The tests dynamically locate and interact with UI elements using locators like CSS Selectors and XPath.
   * Explicit waits (WebDriverWait) are used to handle asynchronous DOM updates.
4. **Validation:**
   * Assertions are used to verify application behavior (e.g. ensuring todos are displayed correctly).
5. **Automation Coverage:**
   * Covers key scenarios like adding new todos, editing existing ones, filtering active/completed todos, and clearing completed items.