**Synopsis**

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**4. Project Guide:** Prof. Dashrath Suryavanshi  
**5. Project Title:** Test Buddy – A Platform for Automation Testing

**6. Project Overview**

Test Buddy is a web-based platform designed to help learners in automation testing by providing a single website that contains most of the commonly used web elements. Typically, learners need to visit multiple websites to find elements that can be automated for practice. This process is time-consuming and inefficient. Test Buddy solves this problem by offering a structured website where all necessary UI components are available on a single URL. This allows learners to focus on improving their automation skills rather than searching for suitable practice websites. The website is developed using **HTML, CSS, and JavaScript**, ensuring a user-friendly experience while fulfilling all necessary testing requirements.

**7. Project Modules**

1. **User Interface & Navigation –** A clean and structured UI with various test elements.
2. **Forms & Input Fields –** Different types of input fields (text, number, password, etc.) for automation practice.
3. **Buttons & Links –** Clickable elements for automation testing.
4. **Dropdowns & Checkboxes –** Multiple interactive components to test form interactions.
5. **Tables & Dynamic Elements –** Elements with dynamic data for handling automation scenarios.
6. **Pop-ups & Alerts –** JavaScript-based alerts and pop-ups for testing automation scripts.
7. **IFrames & Embedded Content –** Different frame structures to help learners practice automation on nested elements.
8. **File Upload & Download –** Sections where users can test file handling scenarios in automation testing.
9. **Mouse Hover & Drag-and-Drop –** Interactive elements to practice event-based automation.
10. **Keyboard Events & Shortcuts** – Sections to test automation of key events like Enter, Tab, and Ctrl shortcuts.
11. **Captcha Handling –** Various captcha types for learners to experiment with automation techniques.
12. **Authentication Scenarios –** Simulated login pages with different authentication types for testing automation scripts.
13. **Multi-Window Handling –** Scenarios involving multiple tabs or windows for learners to practice switching between them.
14. **Scroll & Infinite Scroll Testing –** Pages with scrollable content to test scrolling automation.
15. **Performance & Loading Time Testing –** Simulated slow-loading elements to test automation tool efficiency.

**8. Technologies Used**

* **Frontend:** HTML, CSS, JavaScript
* **Web Components:** Various UI elements essential for automation testing
* **Testing Focus:** Designed for learners practicing Selenium, Cypress, and other automation tools