* **Agile Methodology**

Agile methodology is a flexible, iterative approach to software development where teams work in short cycles (called sprints) to deliver small, usable parts of a project quickly, get feedback, and continuously improve the product.

**Where we can Use –**

Agile methodology is used in software and product development to deliver work in short cycles, adapt to changes quickly, and improve collaboration between teams.

* **Cypress**

Cypress is a modern automation testing tool used to test web applications. It runs directly in the browser, making it fast and easy to test how a website behaves in real time.

Where we can Use –

UI testing for web applications; validating user interactions, forms, and workflows.

* **Playwright**

Playwright is an automation testing tool that lets you test web applications across multiple browsers. It supports modern features like parallel testing and is known for its speed and reliability.

**Where we can Use –**

Cross-browser end-to-end testing; automating complex web scenarios across Chrome, Firefox, Safari, etc.

* **JavaScript**

**JavaScript** is a programming language used to make web pages interactive and dynamic, such as adding animations, handling user actions, or updating content without reloading the page.

**Where we can Use –**

Writing automation scripts for web and API testing; used with frameworks like Cypress, Playwright, Mocha.

* **Jira**

Jira is a project management tool used to track tasks, bugs, and progress in software development, especially in Agile teams.

**Where we can Use –**

Managing tasks, user stories, bugs, and sprint progress in Agile projects.

* **Git**

Git is a version control system that helps developers track changes in code, collaborate with others, and manage different versions of a project.

**Where we can Use –**

Version control for automation scripts; tracking changes and collaborating with team members.

* **GitHub**

GitHub is an online platform that hosts Git repositories, allowing developers to store, share, and collaborate on code projects.

**Where we can Use –**

Hosting and sharing automation code; team collaboration, pull requests, and CI/CD integration.

* **Postman**

Postman is a tool used to test APIs by sending requests and checking responses, making it easier to develop and debug web services.

**Where we can Use –**

API testing, backend validation, and automation of REST/GraphQL services.

* **Mocha**

Mocha is a JavaScript testing framework that helps developers write and run automated tests for their code.

**Where we can Use –**

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| Running JavaScript test scripts; unit, integration, or functional testing of code. |
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* **Page Object Model**

Page Object Model (POM) is a design pattern in test automation where each web page is represented by a separate class, making tests easier to maintain and reuse.

**Where we can Use –**

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| Organizing UI automation code in Selenium, Cypress, or Playwright projects for maintainability. |

* **BDD Cucumber**

BDD Cucumber is a framework that lets you write tests in plain English, making it easy for developers, testers, and non-technical people to understand and collaborate.

**Where we can Use –**

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| |  | | --- | | Behaviour-driven testing; automating acceptance tests that are readable by business and QA teams. | |