**A. Unit Testing**

* **Purpose:** Test individual components or functions to ensure they work as intended.
* **Tools:** Pytest (for Python backend), JavaScript testing libraries (e.g., Jest, Mocha).
* **Examples:**
  + **Frontend:** Test if the navigation bar links work correctly.

**B. Integration Testing**

* **Purpose:** Ensure that different modules (frontend, backend, and database) work together.
* **Examples:**
  + Verify that form submissions (e.g., login or registration) are correctly handled by the backend.
  + Check that the database updates when a user enrolls in a course.

**C. User Interface (UI) Testing**

* **Purpose:** Verify that the website looks and behaves as expected across different devices and browsers.
* **Steps:**
  + Test all buttons, forms, and links.
  + Check for layout issues on mobile, tablet, and desktop screens.
  + Tools: Browser developer tools, BrowserStack.