**Mini-Project 1: E-Commerce Website Functional Testing**

**Duration: 2 hours**

**Objective: Validate the functional requirements of the e-commerce website's checkout process.**

**Tasks Breakdown:**

**1. Review the Requirement Documentation (15 minutes)**

* Analyze the requirement documentation for the checkout process.
* Understand the key functionalities, such as:
  + Adding items to the cart.
  + Viewing and updating the cart.
  + Applying discounts/coupons.
  + Choosing a shipping method.
  + Processing payment.

**2. Write Test Cases (30 minutes)**

Create detailed test cases for the checkout flow.

* Example Test Cases:
  1. **Add Item to Cart**
     + Precondition: User is logged in.
     + Steps:
       1. Navigate to a product page.
       2. Click "Add to Cart."
     + Expected Result: Item appears in the cart with correct quantity and price.
  2. **Apply Discount Code**
     + Precondition: Cart contains items.
     + Steps:
       1. Enter a valid discount code.
       2. Click "Apply."
     + Expected Result: Discount is applied correctly.
  3. **Process Payment**
     + Precondition: Valid shipping and billing details are entered.
     + Steps:
       1. Choose a payment method (e.g., credit card).
       2. Complete payment.
     + Expected Result: Payment is successful, and an order confirmation appears.

**3. Perform Smoke Testing (30 minutes)**

* Focus on key features of the checkout process:
  + Adding/removing items in the cart.
  + Applying a discount code.
  + Filling out shipping and billing information.
  + Successful order placement.

**4. Log Test Results (20 minutes)**

* Use JIRA (or equivalent tool) to log results.
* For each test case:
  + Mark **Pass** or **Fail.**
  + Include screenshots or additional evidence for failures.
  + Report defects with a detailed description.

**5. Report Defects (25 minutes)**

* Log defects in JIRA with:
  + Title: Concise defect description (e.g., *"Discount Code Not Applied"*).
  + Steps to Reproduce: Detailed steps to replicate the issue.
  + Severity and Priority: Classify the impact of the defect.
  + Assign to Developer Role: Ensure each issue is tagged appropriately and assigned.

**6. Review and Submit (10 minutes)**

* Ensure all test cases and defect reports are accurate and complete.
* Review the final submission for quality and adherence to requirements.

