**Test Plan (E-Commerce API Project)**

**Project Name:** E-Commerce API Testing (User, Pet, Order Modules)  
**Prepared By:** Neha Shende  
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**Version:** 1.0

**1. Introduction**

The goal of this project is to validate the functionality, reliability, and robustness of the E-Commerce APIs using **Postman**. Testing will be performed manually, with some automated assertions (status codes, JSON schema validation).

APIs tested include:

* **User APIs:** Create User, Login, Logout, Fetch User.
* **Product APIs:** Add, Update, Fetch, Delete Pet (acting as Product).
* **Order APIs:** Place Order, Fetch Order, Delete Order.

**2. Scope**

**In Scope:**

* Functional testing of CRUD APIs.
* Positive and negative test case validation.
* Response code validation (200, 400, 401, 404, 409, 500).
* Data integrity checks in responses.

**Out of Scope:**

* UI Testing.
* Load/Performance testing.
* Database testing (since backend is not accessible).

**3. Test Approach**

* **Tool:** Postman (with environment variables).
* **Method:** Black-box manual API testing.
* **Execution:** Positive, negative, boundary, and smoke tests.
* **Defect Tracking:** Logged in Excel Bug Report sheet.

**4. Test Deliverables**

* Test Plan (this document).
* Postman Collection & Environment.
* Test Case Document (Excel).
* Bug Report.
* Test Summary Report.

**5. Entry & Exit Criteria**

**Entry Criteria:**

* APIs are accessible and documented.
* Postman environment configured.

**Exit Criteria:**

* All test cases executed.
* All critical bugs resolved or deferred with justification.

**6. Risks & Mitigation**

* **Risk:** API downtime → Mitigation: Retry with backup test data.
* **Risk:** Incomplete documentation → Mitigation: Validate via Swagger.

**7. Roles & Responsibilities**

* **Tester:** Execute test cases, log defects, prepare report.
* **Lead (self, if solo):** Review test artifacts, ensure traceability.

**8. Timeline**

* **Day 1–2:** Test planning & setup.
* **Day 3–4:** Test case design.
* **Day 5–6:** Test execution.
* **Day 7:** Bug reporting & Test Summary.