**TEST PLAN – CURA Healthcare Demo API**

**1. Overview**

The purpose of this test plan is to define the strategy, scope, and approach for testing the Login, Make Appointment, and Logout APIs on the CURA Healthcare Demo web application: <https://katalon-demo-cura.herokuapp.com>.

**2. Test Objectives**

* Verify the **Login API** authenticates valid users and rejects invalid login attempts.
* Ensure the **Make Appointment API** works as expected with proper data and returns errors on invalid inputs or without authorization.
* Validate that the **Logout API** correctly terminates sessions and prevents unauthorized access afterward.

**3. Test Scope**

**In Scope:**

* Functional testing of API endpoints for login, appointment creation, and logout.
* Security validation for unauthorized access and session expiration.
* Input validation and data integrity.

**Out of Scope:**

* UI Testing
* Performance or Load Testing
* Third-party integrations

**4. Test Strategy**

| **Type** | **Description** |
| --- | --- |
| **Functional Testing** | Ensure endpoints behave as expected with valid/invalid inputs |
| **Negative Testing** | Validate error handling and rejection of bad data |
| **Security Testing** | Verify access control, session expiration, token misuse |
| **Regression Testing** | Re-run valid scenarios when a related endpoint is changed or updated |

**5. Test Environment**

* **Environment URL:** https://katalon-demo-cura.herokuapp.com
* **Tools:** Postman, REST-assured, Katalon Studio, Browser DevTools
* **Authentication Type:** Session-based (cookies), possibly with CSRF token handling

**6. Assumptions**

* A default user exists:  
  **Username:** John Doe  
  **Password:** ThisIsNotAPassword
* App uses session-based authentication (analyze via browser tools or API inspector).
* CSRF tokens may be needed for form-based endpoints (extracted from HTML or initial request).