**Test Plan: Appointment Booking API Testing**

**1. Objective**

To validate the functionality of the login and appointment booking APIs at [CURA Healthcare](https://katalon-demo-cura.herokuapp.com/#appointment), ensuring that a user can log in successfully and make appointments by selecting appropriate dates.

**2. Scope**

This test covers:

* Authentication of users using the Login API.
* Creating an appointment using the Make Appointment API.

**3. Test Environment**

* **Base URL:** <https://katalon-demo-cura.herokuapp.com/>
* **Tools:** Postman / JMeter / Curl / Automation with RestAssured (Java) or Python Requests
* **Auth Type:** None
* **Content Type:** application/x-www-form-urlencoded

**4. API Endpoints**

**4.1. Login API**

* **URL:** https://katalon-demo-cura.herokuapp.com/authenticate.php
* **Method:** POST
* **Headers:**
  + Content-Type: application/x-www-form-urlencoded
* **Payload:**

plaintext

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username=John Doe

password=ThisIsNotAPassword

* **Response Validation:**
  + Status Code: 200
  + Response Body: Should indicate success or failure (e.g., message: "Login successful")
  + Token or Session validation if applicable (although it's mentioned Auth: NO)

**4.2. Make Appointment API**

* **URL:** https://katalon-demo-cura.herokuapp.com/authenticate.php *(same as login, may need clarification)*
* **Method:** POST
* **Headers:**
  + Content-Type: application/x-www-form-urlencoded
* **Payload:**

plaintext

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facility=Seoul CURA Healthcare Center

hospital\_readmission=Yes

programs=Medicaid

visit\_date=25/09/2024

comment=dasdasda

* **Response Validation:**
  + Status Code: 200
  + Response Body: Should confirm appointment details, e.g., appointment ID, confirmation message.

**5. Test Scenarios**

**✅ Positive Test Cases**

1. **Valid Login**
   * Input: Correct username and password
   * Expected: Login successful
2. **Valid Appointment Booking**
   * Input: All required fields with valid data
   * Expected: Appointment created successfully

**❌ Negative Test Cases**

1. **Invalid Login Credentials**
   * Input: Wrong username or password
   * Expected: Login failure message
2. **Empty Login Fields**
   * Input: Blank username or password
   * Expected: Proper error message
3. **Appointment Without Login** *(If Auth required in future)*
   * Input: Submit appointment without login/session
   * Expected: Unauthorized error (401/403)
4. **Missing Required Fields in Appointment**
   * Input: Empty visit\_date, missing facility
   * Expected: 400 Bad Request or validation error
5. **Invalid Date Format**
   * Input: Date like 2024-09-25 instead of 25/09/2024
   * Expected: Validation failure
6. **Invalid Field Values**
   * Input: Non-existent facility, invalid program
   * Expected: Validation failure

**6. Test Data**

| **Username** | **Password** | **Facility** | **Date** | **Program** | **Readmission** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- |
| John Doe | ThisIsNotAPassword | Seoul CURA Healthcare Center | 25/09/2024 | Medicaid | Yes | dasdasda |

**7. Out of Scope**

* UI validation of the appointment portal
* Database persistence verification
* Email/SMS notification after booking

**8. Risks & Assumptions**

* API URL for appointment and login is currently the same — may be a typo or misconfiguration.
* No authorization mechanism implemented yet (Auth: NO)
* Assuming appointments do not require login/session as per current setup.

**9. Test Deliverables**

* Postman Collection / JMeter Script
* API Test Report with status of test cases
* Bugs/Defects logged (if any)