API Automation Framework

Requirement 2 From the Manager (Removing Hardcoding and Dynamic Authentication)

Subject: Requirement – Remove Hardcoding & Add Dynamic Authentication

Hi Team,

Great job on automating the Login and User Details APIs.

The functional flow is working fine, **_but to make our test suite reusable and maintainable,_ _we need to remove hardcoded values and handle authentication dynamically._**

For that I want you to Implement

1. **Dynamic Token Handling** for Creating the token of FD, SUPERVISOR, ENGINEER and QC.
2. **Please remove the HARDCODED BASEURI and CREDS that you have passed in each tests.**

Scope of Work

1. Dynamic Token Handling

1. Fetch the Authorization token directly from the Login API response.
2. Use this token automatically in the User Details API (and other upcoming APIs).
3. Cache the token for the duration of the test run.

2. Externalize Configurations

Move values like baseUri, username, password, and environment into a config.properties file.

Support switching environments (dev, qa, uat) without code changes.

3. Refactor Existing Tests

Update Login and User Details tests to use the new utilities (config + dynamic token).

Ensure JSON Schemas are loaded from the classpath instead of absolute paths.

Deliverables

- ✓ Config file(s) for different environments.
- ✓ Utility class for authentication (dynamic token handling).
- ✓ Updated test classes for Login and User Details APIs.

Acceptance Criteria

- ✓ No hardcoded tokens, URIs, or credentials in the code.
- ✓ Token is generated dynamically and reused.
- ✓ Config-driven environment support is available.
- ✓ Login and User Details tests updated with new utilities.

Please complete this by the end of sprint so we can build on top of it for further requirements.

Thanks,

Your Manager