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1. Scope

- Purpose of this document is to create a test cycle from initiation till closure.
- The scope of testing is limited to the EPIC requirements provided on JIRA. Review of the document will be done by Senior Stakeholders. The document contains all the testing timelines.
- This is a formal Test approach document, for details around team combination, defect reporting and other management details please refer Test Plan.

2. Test Approach

- **Testing Levels:**
 - Unit Testing will be supported by development team with acceptance criteria provided from Quality Team and Product Owners.
 - Integration Testing will be carried out by Quality team with Automation up to 80% for regression and 50% for functional changes.
 - UAT and Pre-Prod will be carried out by App Support team, QA team to support Devops/AppSupport team for environment/configuration related details.
- Roles and Responsibilities Details: To be added
- **Environment Details:**
 - QA to create environment for Automation/Manual/All types of testing.
 - QA to create Stubs/Mocks/Test Data for password change requirement.
- **Types of Testing:**
 - **Backend/API testing** to be carried out with RestAssured for Automation flow and Jmeter/Postman for functional manual flows.
 - QA to create **stubs** for any third party integration of API's.
 - **Database testing** to be carried out up to an extent where data consistency is validated across all the micro services.
 - **For UI testing**, Use Selenium/Appium depending on the technology stack.
 - **Performance Testing** to be carried on different environment (Prod Replica) than QA, Jmeter to be used for performance testing with only 10% of total users would be changing password at a time. **Tps** to come from product team.
 - **Security Testing** to be carried out by DevSec team supported by QA team
- Defect Management, triage and Reporting: To be added.
- **Functional(Technical) Responsibilities for QA:**
 - Validate the **changePassword** API against the contract/spec provided by Dev Team.
 - Create **RestAssured** Regression Pack.
 - Validate responseCodes, responseBody, headers and other related semantics.
 - Validate API with optional parameters.
 - Validate Authorization testing scenarios.
 - Integration testing multiple micro services and UI.
 - Validate endpoint with multiple configuration like queryParams, pathParams.
 - Send Mal-Formed content to validate robustness handling of the API.

High Level Test Design(Sample):

#	Test Scenario Category	Test Action Category	Test Action Description
1.	Positive Workflow – Happy Path Execute API call with valid required parameters	Status Code Validation	<ol style="list-style-type: none"> Should return 2XX status codes. ChangePassword should be a POST request with 201 status to update the password and 4xx to deny the password change.
		Payload Validation	<ol style="list-style-type: none"> JSON Validation Structure of the response Body etc.
		Headers Validation	<ol style="list-style-type: none"> Content Type Cache etc.
		Performance Validation	TPS as per Test Plan/Epic.
		Security Validation/OAuths	As per Plan.