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TEST PLAN FOR CATALOGUE OF PERSONAS FEATURE

1.0 Introduction

This is a test plan for a new feature called Catalog of Personas, which includes some characters to represent a user type that might use a site, brand, or a product in a similar way.

2.0 Testing strategy

2.1 Test Objectives

The objective of the test is to verify the functionality of the application, according to specific features of personas.

The final product of the test is:

- Final product which corresponds to the given quality and design criteria
- A production-ready software
- “Friendly-used” application
- A set of stable test scripts that can be reused for Functional and UAT test execution.

2.2 Test Principles

- Testing will be focused on meeting quality, design and functionality.
- Testing processes will be well-defined, yet flexible, with the ability to change as needed.
- Testing activities will build upon previous stages to avoid redundancy or duplication of effort.
- Testing environment and data will emulate a production environment as much as possible.
- Testing will be a repeatable activity
- Testing will be divided into distinct phases, each with clearly defined objectives and goals.
- There will be entrance and exit criteria.

2.3 Functional Test

PURPOSE: Functional testing will be performed to check the functions of the application. Functional testing is carried out by feeding the input and validating the output from the application.

METHOD: The test will be performed according to Functional scripts and given data. Application is backed with a relational database, which data we can use for positive testing to verify that the functions produce expected results for given inputs, and for negative testing to test application ability to handle with unusual, exceptional or unexpected inputs.

TIMING: After all tests are completed

2.4 Application Programming Interfaces (APIs)

PURPOSE: Check the functionality, reliability and performance of the programming interfaces by sending the calls to the API.

METHOD: Sending calls to the API, getting output, and noting down the system's response. We can send API requests with different methods:

- GET - for getting the list all personas
- POST – for creating a new person
- PUT – for updating a person

TIMING: After all tests get status pass

2.5 User Acceptance Testing (UAT)

PURPOSE: With this method we can see if the application is “user-friendly”. This test focuses on validating business logic. It allows the end users to complete one final review of the system before deployment.

METHOD: Put yourself in the position of the end-user's view. Need to check if the application is working well online as well as in mobile advertising, because this application is also adapted for mobile use.

TIMING: After all other levels of testing are done. Only after User Acceptance Testing, application can be released to production.

2.3 Performance testing

PURPOSE: After all tests pass, we can implement Testing performances with different loads on the system.

METHOD: Stress test, to see how it works when the loads are increased beyond normal limits. And implementing Spike test, to see how it works when the load increases at a certain moment.

TIMING: After analyzing test results with tool JMeter.

3.3 Test Risks points

- Only logged users are allowed to see the features – need to check the login page, which includes positive and negative testing.
- Updating already existing person
- Posting a new person

