**Testing Strategy**

## Test Approach

## Functional testing

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To ensure proper application navigation, data entry, processing, and retrieval, the following strategies will be used in functional testing together with SQL database:

* In functional testing the retrieval of data will show if the data retrieved is valid or not.
* Provide correct data entry and retrieve output to see if the correct data was processed by the system.
* Provide incorrect data to check if the validation is correct.
* The expected results occur when valid data is used.
* The appropriate message is displayed when invalid data is used.

## User Interface testing

To verify a user’s interaction with the system and ensure the system is working as intended, the following strategies will be used:

* html elements e.g. buttons, icons, searches and checkboxes will be clicked and verify if they are invoking correct actions in the system.
* The system will be tested in different browsers to conform if all elements are visible and if they are visible in a desired position.

## Glass Box testing

They are errors that can be eliminated before trying to perform a functional testing, the following strategies will be used:

* Test-Driven-Development (TDD) will be used to test methods of the system if they are behaving in a correct way.

## Roles and responsibilities

## All Team member will be responsible for creating test cases and test the system.

## Testing environment

* A windows environment with internet explorer 8, 9 and 10 and Google Chrome.

## Testing tools

* NUnit
* NUnit3TestAdapter
* NSubstitute
* PeanutButter.RandomGenerators