Intended testing date: 11/09/2023



Testing Plan -

Implementation Phase

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# Software in Brief

The software to be tested is a working website of intermediate complexity. It involves 5+ web pages, as well as back-end communication with a MySQL database. Updates to data can be done server-side as well as front-end by individuals using registration/login with PHP.

# Testing Scope

The primary function of this testing document is to test the input, storage, manipulation, and output of user-provided data. This will test both the capabilities and performance of the website & database, as well as the validation and connection of the front-end form input, and the output validity of the data.

# Testing Strategy & Case Definitions

A single set of cases denoted by the differing table colour-sets will be tested focussing on a particular testing scope item: input & registration, storage & webpage mapping, & output & accuracy.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case Type** | **Description** | **Test Step** | **Expected Results** | **Status** |
| **Input & Registration** | First Name accepts up to 40 characters | Input over 40 characters- letters, numbers, symbols | No issues visible when register button is clicked | Pass |
|  | Last Name accepts up to 40 characters | Input over 40 characters- letters, numbers, symbols | No issues visible when register button is clicked | Pass |
|  | Email without ‘@’ symbol | Omit addition of @ symbol | No exceptions visible | Pass |
|  | Email blank | Provide all data except for email | No exceptions visible | Pass |
|  | Password and confirm password are the same string | Input different characters into each field | No exceptions visible when register button is clicked | Pass |
| **Storage & mapping** | Input data is stored according to database scope | Check customer ID is unique field | ID is incremented from the previous row | Pass |
|  | Null references are stored | Check database stores d.o.b as non-null | Date\_of\_birth field should contain 0000-00-00 where blank | Pass |
|  | Password is stored as hash value | Check back-end password table | Password column only contains hash values | Pass |
|  | Website links are all valid | Check each link on each page is accurately mapped | Links are appropriately mapped | Pass |
| **Output & Accuracy** | Full name displayed correctly | Change first and last name at registration | Full name should be incorrect | Pass |
|  | Secondary details display correctly | Phone number appears blank after registration | Phone number appears blank after registration | Pass |
|  | Secondary details display correctly | Update phone number using update details button | Phone number visible after update | Pass |
|  | Use of concessions work as intended | Click Use button while count is 0 | Unable to use | Pass |
|  | Use of concessions work as intended | Click Use button while count is 1 or above | Will allow use asking for confirmation first | Pass |

# 

# Testing Tools

Tools required for this testing phase will be:

* Access to webpage, backend database, & secure access to hosting account
* Internet access to a single PC for testing purposes

# Test Criteria

## Suspension Criteria

* Should more than a single bug be found, it will be logged within our communications pages and followed up by the relevant role.
* Performance issues are to be expected. Log any issues, however, do not expect a remedy to these

## Exit Criteria

* All buttons function as intended
* Form inputs are to applicable expectation levels
* Output is accurate
* Website mapping is accurate
* Data storage meets or exceeds all consumer levels & applicable laws

# Test Schedule & Changes

Testing phase will commence at the beginning of the final week of the project outline and will end at the end of that week. The final week is currently scheduled for the 11th September 2023. Should this change, please see the team discord for more information.