2016

VeriHandy Testing Report

BUILT FOR SHAWN SQUIRE

VeriHandy Development team

Anil Kendir – Team Facilitator

Matthew Wheeler – Requirements Leader

Justus Jackson – Implementation and Testing Leader

Dean Fleming – Design Leader

Tristan Adams – Delivery Leader

VeriHandy

Testing Report

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### **1. Introduction**

Testing is a vital requirement for delivering a consistent and accurate product. Testing will consist of white box and black box testing at each stage of development and throughout the production of the product.

* 1. **Purpose of This Document**

This document records data obtained from an experiment of evaluations in an organized manner. It will measure the results against the requirements and document the difference between the expected and actual results. Finally it will assist in resolving those differences by providing the proper debug aids.

* 1. **References**

Use cases from the System Requirements Specification (SRS) documentation.

2. **Testing Process**

* 1. **Description**

Testing will occur at every stage of development, including but not limited to the spiral deliveries and final product delivery. Testing will be done by each developer, and will encompass black box testing, white box testing, and unit testing.

The tests will be based on the use cases provided in the SRS documentation. The development of our product is based on the satisfaction of these test conditions.

The testing in this document will encompass all use case requirements requested by the customer.

**2.2 Testing Sessions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Location** | **Time Ended** | **Performed By** | **Use cases** |
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**2.3 Impressions of the Process**

Testing during development is essential to having a reliable and well-rounded product. Each testing session is focused on confirming the functionality of the corresponding use case. We developed test conditions for each use case based on how we felt the product should perform.

The largest component of the second spiral implementation was creating our database to store the information regarding the customer’s, job listings, administrations, etc.

Each team member often does a black box test on the application prior to going over team-mate progresses in order to check the condition of the application without any bias. This process has helped significantly because it is very clear which parts of the application requires further development and testing.

The installation of Vagrant and Laravel has been a key component in testing our development. Each team member is able to create a clone of the webpage under their local host to perform testing on their own without hindering team members.

3. **Test Results**

Testing was done in order to exhaustively check the properties of each use case development. They were intended to check for the core functionality of the given use case, in order to confirm that it functions properly. The tests also checked for system crashes or errors given invalid inputs, such as not entering an email or address when registering to the website. Boundary conditions while registering occur for Null values in any of the following: (username, name, address, city, state, zip, email, or phone number). Boundary conditions also occur when Null values are given for username and password during the login page

* 1. **Testing Suite**

|  |  |
| --- | --- |
| **Use Case** | **Register to webpage** |
| **Valid Situation** | **User clicks register on the webpage and enters in appropriate information for all user information fields** |
| **Invalid Situation** | **User clicks register on the webpage but fails to provide all of the necessary fields during account creation** |
| **Purpose** | **To test successful account registration for VeriHandy** |
| **Expected Results for Valid Situation** | **User is prompted with a confirmation message** |
| **Expected Results for Invalid Situation** | **User is prompted to fill in any blank account information slots** |
| **Boundary Conditions** | **Invalid or NULL entries result in error message** |

|  |  |
| --- | --- |
| **Use Case** | **Logging in** |
| **Valid Situation** | **User clicks Log in button and is prompted to enter their username or email, along with their personal password and successfully logs in** |
| **Invalid Situation** | **User clicks Log in button and is not prompted to give credentials, or they provide incorrect credentials when prompted** |
| **Purpose** | **To test the ability to log into VeriHandy** |
| **Expected results for Valid Situation** | **User is relayed to the homepage** |
| **Expected results for Invalid Situation** | **User is given an error message and asked to re-enter a valid set of credentials** |
| **Boundary conditions** | **Invalid log in credentials result in error message** |

**3.2 Test Results**

**Appendix A – Team Review Sign-off**

Signatures here indicate that all members of the team have reviewed and agreed upon the document’s content and format.

Team Comments:

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Signatures:

Shawn Squire: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Anil Kendir: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Matt Wheeler: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Justus Jackson: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dean Fleming: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tristan Adams: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Appendix B – Document Contributions**

Anil Kendir

Matt Wheeler

* Wrote the Introduction section
* Brought in initial template for document

Justus Jackson

Dean Fleming

Tristan Adams