

P03-T2 Mgmt Sys NP

SOFTWARE TEST PLAN AND REPORT (STP & STR)

CS 4850

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Professor Perry

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1. Scope of Testing

a. In-scope

When it comes to HubSpot, the test plan will involve the tools of HubSpot that are most useful for the industry partner. The test plan will include testing on the spreadsheet integration. The test will include examining the results of trying to put in spreadsheets from both Microsoft Excel and Google Spreadsheets as well as testing the ability to use .csv files, as this is another common method for data entry into a database.

Another feature that will be tested is the email integration. The industry partner currently uses Mailchimp for marketing emails and sending out mass emails. This is important to be featured when looking at HubSpot. The test will include not only the downloading and installation of the Mailchimp extension in HubSpot, but also the ability to use Mailchimp while in HubSpot and the ensuring that it works to the standards of the group and the industry partners.

The last feature that we plan on testing is the addition of new contacts in HubSpot. Currently, when the partner has a new contact, they need to put them on the spreadsheet. HubSpot has a place to add new contact to which testing will be done. Testing it for edge cases and situations where not all information is present to see if there is anything that needs to be modified or updated or can HubSpot handle these issues.

b. Out-of-scope

The features that will not be tested are anything in HubSpot that does not directly relate to the needs of the industry partners. There are many features that HubSpot has

for all different sorts of businesses. Some of these features are of no use to the industry partners. For example, HubSpot has a full section dedicated to marketing. This is something that the industry partners have said they have no interest in exploring as they already have a dedicated resource for marketing. These features will not be tested or explored at this time. The features that will not be tested are to be assumed not useful to handing off the project to the industry partner.

2. Test Cases

- a. List scenarios to test (functional and non-functional if applicable)
- b. Example format:
 - i. Test Case ID
 - ii. Description
 - iii. Expected Result

Test Case ID	Description	Expected Result
TC-SI-01	Import a small (10-row) excel spreadsheet	All 10 elements are accurately imported and visible in their respective HubSpot list
TC-SI-02	Import industry partner's provided test data in a .csv format	All partner contacts are accurately imported with correct data mapping
TC-SI-03	Import a large (2000-row) CSV file	All 200 contacts are processed and imported into HubSpot
TC-MC-01	Install the Mailchimp extension from HubSpot Marketplace	Extension installs successfully without errors and appears in the HubSpot navigation menu

TC-CR-01	Manually create new contact with all required fields populated (First Name, Last Name, Email, etc.)	Contact is saved successfully and appears in the contact list with all provided information
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3. Test Procedures

- a. Steps to execute each test case
- b. Example:
 - i. Step 1: Open app
 - ii. Step 2: Enter username/password
 - iii. Expected: Login successful

For Test Cases TC-SI-01 to TC-SI-03

- i. Log in to HubSpot portal
- ii. Navigate to Contacts > Import
- iii. Click Start and import and select the appropriate file (Excel, or CSV)
- iv. Map the spreadsheet columns to the correct HubSpot token properties
- v. Click 'Finish Import'
- vi. Verify results in contact list

For Test Case TC-MC-01

- i. Log in to HubSpot portal
- ii. Navigate to Marketplace > App Marketplace
- iii. Search for "Mailchimp" and click install
- iv. After installation, navigate to the new Mailchimp section

- v. Click 'Create Email' and draft a test email

For Test Case TC-CR-01

- i. Log in to HubSpot portal
- ii. Navigate to Contacts > Create Contact
- iii. Enter the information as specified in the test case
- iv. Click save
- v. Verify the new contact was created

4. Test Environment

The test environment that will be used for testing is one that can be easily tested across multiple devices in different environments. For the hardware requirements for the testing, we will be using a mixture of PCs and Laptops to run the testing. Since HubSpot is an online only service, any hardware can run HubSpot. For the software requirements, the only one would be to have the latest version of either Windows or IOS downloaded. HubSpot being in the cloud means that no software must be downloaded to use and run HubSpot. This also means that the way to start HubSpot is by simply going to the website and logging in. There is no software setup or any running of code on the host machine to get HubSpot working, all you need in terms of software is an OS and a Browser to view HubSpot in. Since HubSpot is in the cloud, a constant internet connection is a must. This can be really any sort of internet connection, either commercial or residential. The connection will need to be able to allow access to the internet and provide a constant connection during the testing of HubSpot.

5. Test Data

The only data that is required for testing is a spreadsheet file or a .csv file. The data that is needed has to be between roughly 1 to 2,000 rows. The free version of HubSpot will only allow a maximum of 2,000 rows before it requires you to pay for the feature. For the testing, three different spreadsheets will be used. One will be the actual spreadsheet that the industry partner has sent to us. Another is a simple 10 row spreadsheet that will be used to start testing to ensure that the software of HubSpot is able to pick up the information of our spreadsheet accurately. The last spreadsheet will have the maximum number of rows, to test whether HubSpot is able to deal with a large spreadsheet set and how efficiently it handles the large data set. Lastly, there will be a .csv file that is used to test the functionality of being able to insert .csv into HubSpot.

6. Software Test Report (STR)

Test Case ID	Requirement	Pass/Fail	Severity	Notes & Observations
TC-SI-01	Small spreadsheet import	Pass	-	10-row import was successful and accurate
TC-SI-02	Partner's data import	Pass	-	Partner's provided test data was imported correctly; all data mapped as expected
TC-SI-03	Large spreadsheet import	Fail	Moderate	First import attempt timed out. A second attempt was successful

TC-MC-01	Mailchimp integration	Pass	-	Installation was straightforward and successful
TC-CR-01	Contact creation	Pass	-	Contact created with all info saved correctly

The testing phase was a success. All critical functions, including Mailchimp integration and manual contact creation, passed. One non-blocking issue of moderate severity was identified where a large file import timed out once but succeeded on a retry. The HubSpot configuration is deemed fit for the industry partner's intended use and is ready for handoff.