



Outlook.com - Test Plan for WWE

QA Test Approach

This document describes the test plan & approach to be taken to ensure that the system meets project requirements

VERSION	NO. OF PAGES	AUTHOR(S)
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PROJECT CODE

WWE MM QA

Preface

Target Audience

This document is aimed at WWE QA staff and stakeholders.

Document Revision History

VERSION	DATE	AUTHOR	DESCRIPTION
0.1	14/Apr/2016	Marcus	Initial draft for review

Product Requirements Document

The following documents have been referenced when producing this approach:

Ideally the Document Name should be a link to Confluence

REFERENCE	DOCUMENT NAME / AUTHOR(S)	VERSION
[1]		

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1 Introduction

1.1 Purpose of Document

This document aims to describe the approach to be taken for the preparation and execution of testing for the Outlook.com login module. It details the methods that will be used to validate the project requirements for the system to be delivered.

This test approach assumes that the reader has thoroughly read and understood the Product Requirements Document.

1.2 Background

WWE QA Hiring task requires to design this doc for the test plan ability.

1.3 Test Objectives

The general objectives of the QA Test phase are to ensure that the delivered system meets the signed-off project requirements within agreed timescales, and is both fit for purpose and fit for use.

2 Risk Overview

2.1 Assumptions

The following assumptions apply to the Outlook.com Login project and QA Test phase:

- No changes will be required to those components listed in section 3.2 Out of Scope
- Conformance Test has been completed by Development

2.2 Dependencies

The QA Test phase is dependent on:

- Code being delivered by all development teams to plan
- Development documentation being delivered by all development teams to plan
- Requirement agreed upon by IT and the Business Sponsor

2.3 Risks

The inherent risks to the project are that the Assumptions and Dependencies listed above are either incorrect or not met. As such, the following risks have been raised against the QA Test phase.

RISK / ISSUE DESCRIPTION	PROBABILITY / IMPACT	MITIGATING ACTION
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Project scope is changed or changes are required to components listed in section 3.2 Out of Scope	High / High Additional test effort required leading to possible extension of the test phases	Ensure project scope and Test Approach are reviewed
There are no formal Business Requirements for the project and those we have are very basic	High / High Scope change and insufficient test coverage	Ensure project scope and Test Approach are reviewed
Code not being delivered to plan	Low / High Delayed start of Test Execution	Development Team Leader to ensure code is delivered to plan

3 Scope

The overall scope of this project is largely defined by the requirements referenced in the Project Requirements Document section. Additionally, the generic Outlook.com Login module will be tested in various ways (as defined in section 4) to ensure that it functions end-to-end with these customisation in place.

3.1 In Scope

All tests will be executed against components with versions which match those used in Production. If component versions change intra cycle, we will not switch over until the test cycle has ended.

Full System Testing will be carried out on the following components and/or functionality of the system:

Functional Requirements and Test Strategy

1. User login

- Username : Edit Box, Input Email address or Phone number. There is no length limitation. If input phone number, there will be country code selection first and the phone number can be hybrid with numbers, space and symbols like : () [] . - # * /.
- Password : Edit Box, no input and length limitation.
- Methodology : **Boundary-Value, Error Guessing, Equivalence Class**. (Test Cases can be found at : 4.4.2 Test Cases)

2. Compatibility Test

- Test Strategy - Orthogonal Arrays:

- Factors: OS, Browser, Security Softwares.
- Levels: OS → Win7, Win8, MacOS, ChromeOS...

Browser → IE8, IE9, IE10, IE11, Chrome, Safari, firefox...

Security Software → Norton, McAfee, Kaspersky...

- Runs → $L_{12}(4^1 7^1 3^1)$ ~→ Use the $L_{32}(4^8 8^1)$

Please see the CT-Outlook.xlsx "Orthogonal Arrays" spreadsheet.

3. Stress & Load Testing

- Use performance test tools to simulate the users' login behaviour to test the system's performance capacity.
 - **Tools and Protocol :**
 - **Jmeter || Gatling**
 - **Http**

3.2 Out of Scope

Anything not explicitly defined in section 3.1 (and Product Requirements Document) is considered out of scope for the QA Test phases.

4 Approach

This section describes the approach that will be taken to test the requirements based on the scope detailed in sections 3.1 and 3.2

4.1 Test Preparation

- Analysis of any available documents to ensure a full understanding of what is expected of the system
- Analysis of all defects previously raised for Outlook.com Login and identifying the ones which require script coverage
- Writing scripts for any new functionality to increase test coverage
- Test material will be created in Quality Center / JIRA / Confluence

4.2 Functional Testing

Functional Testing is designed to ensure that all of the functional requirements for the project are met by the system being delivered.

4.2.1 Main Execution Phase

The Main Test Execution Phase is designed to ensure that all of the code changes delivered satisfy the relevant requirements detailed in the Reference Document section.

For Outlook.com Login will consist of the following cycles:

- Cycle 1 – Initial coverage and discovery of any issues which are encountered during execution of the **“User login”** and **“Compatibility Test”** . Also during this cycle, carry out light Regression/Exploratory testing around the components that the new functionality enhancement affects. This will be used to ensure the new functional changes have not had any obvious affect on the surrounding components.

- Cycle 2 – Defect re-test

Cycles may be added, shortened, lengthened or adjusted if required. The criteria that may influence the decision to change the test cycle schedule are:

- Significant functional or technical changes being included in scope
- Defect fixes that fundamentally change significant areas of functionality
- Showstopper defects which essentially halt testing
- Time constraints

This decision will be agreed within the Project Team.

4.2.2 Test Cases

Test Case Name	Test Case 1 – Null input for both Username & Password
User Scenario	Validate user is not able to login the outlook by input nothing
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = null] + [Password = null] Then [Press Submit Btn]
Expected Results	[id=usernameError] + [id=passwordError] Popup and requires user to input the valid [Username] + [Password]
Actual Results	

Pass / Fail	
Additional Info	

Test Case Name	Test Case 2 – Null input for Password
User Scenario	Validate user is not able to login the outlook by not input Password
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Vaild Value] + [Password = null] Then [Press Submit Btn]
Expected Results	[id=passwordError] Popup and requires user to input the valid [Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 3 – Null input for Username
User Scenario	Validate user is not able to login the outlook by not input Username
Test Environment	Chrome / Firefox / IE / Edge

Test Steps	Input [Username = null] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 4 – Spaces input for both Username & Password
User Scenario	Validate user is not able to login the outlook by input spaces
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = space * (required input length)] + [Password = space * (required input length)] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]

Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 5 – Hybrid Spaces input for Username
User Scenario	Validate user is not able to login the outlook by input hybrid spaces with valid username
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = space * 1 + Valid Value + space * 1] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 6 – Hybrid Spaces input for Password
User Scenario	Validate user is not able to login the outlook by input hybrid spaces with valid password

Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Valid Value] + [Password = space * 1 + Valid Value + space * 1] Then [Press Submit Btn]
Expected Results	[id=passwordError] Popup and requires user to input the valid [Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 7 – Admin guessing input for both Username & Password
User Scenario	Validate user is not able to login the outlook by input admin guessing username & password
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = admin/Admin/ADMIN/root/Root/ROOT] + [Password = admin/Admin/ADMIN/root/Root/ROOT/123/123456] Then [Press Submit Btn]

Expected Results	[id=usernameError] + [id=passwordError] Popup and requires user to input the valid [Username] + [Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 8 – Long String input for Username
User Scenario	Validate user is not able to login the outlook by input long string username
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Long String] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 9 – Long String input for Password
User Scenario	Validate user is not able to login the outlook by input long string password
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Valid Value] + [Password = Long String] Then [Press Submit Btn]
Expected Results	[id=passwordError] Popup and requires user to input the valid [Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 10 – Multibyte character input for Username
User Scenario	Validate user is not able to login the outlook by input multibyte character username
Test Environment	Chrome / Firefox / IE / Edge

Test Steps	Input [Username = multibyte character] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 11 – Multibyte character input for Password
User Scenario	Validate user is not able to login the outlook by input multibyte character password
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Valid Value] + [Password = multibyte character] Then [Press Submit Btn]
Expected Results	[id=passwordError] Popup and requires user to input the valid [Password]

Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 12 – Valid Username with invalid Special Symbol login
User Scenario	Validate user is not able to login the outlook by input valid username with invalid Special Symbol
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Valid Value with Special Symbol(not include : space () [] . - # * /)] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	[id=usernameError] Popup and requires user to input the valid [Username]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 13 – Valid Username (phone number) with valid Special Symbol login
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User Scenario	Validate user is able to login the outlook by input valid username (phone number) with valid Special Symbol
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = Valid Value(like phone number) + Special Symbol(space () [] . - # * /)] + [Password = Valid Value] Then [Press Submit Btn]
Expected Results	Login Success
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 14 – JS XSS input for both Username & Password
User Scenario	Validate user is not able to login the outlook by input JS XSS code
Test Environment	Chrome / Firefox / IE / Edge

Test Steps	Input [Username = JS code for XSS] + [Password = JS code for XSS] Then [Press Submit Btn]
Expected Results	[id=usernameError] + [id=passwordError] Popup and requires user to input the valid [Username] + [Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 15 – SQL Injection input for both Username & Password
User Scenario	Validate user is not able to login the outlook by input SQL and should not return DB values.
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Input [Username = SQL for Injection] + [Password = SQL for Injection] Then [Press Submit Btn]
Expected Results	[id=usernameError] + [id=passwordError] Popup and requires user to input the valid [Username] +

	[Password]
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 16 – Do login with different ip hosts
User Scenario	Validate user will get the alert message show there are different ip login with the user' s account
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Use the valid Username & Password to login the test account on multiple host with different ip address
Expected Results	Security Alert Message should Popup on all hosts
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 17 – Do login with different browsers on the same ip host
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User Scenario	Validate user is able to login with multiple browsers on the same ip host
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Use the valid Username & Password to login the test account on multiple browsers by the same ip address
Expected Results	Login Success
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 18 – Backward & Forward actions after login
User Scenario	Validate user is not able to login after logout and do the backward & forward actions on the browser
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Use the valid Username & Password to login the test account on Outlook.com; Then logout the test account and try to press the [backward] & [forward] buttons on the browser

Expected Results	User can't login the test account again
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 19 – Cookies deleted after login
User Scenario	Validate there is an alert message show that the user need do the login again after the cookies deleted
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Use the valid Username & Password to login the test account on Outlook.com; Then delete the Cookies for the Outlook.com and continue operate on the mailbox
Expected Results	After the Cookies have been deleted, when the user operate anything on the mailbox, there will be a refresh action to logout the user or show user the alert message
Actual Results	
Pass / Fail	
Additional Info	

Test Case Name	Test Case 20 – Performance Scenarios
User Scenario	Validate load response time for the entrance
Test Environment	Chrome / Firefox / IE / Edge
Test Steps	Use Jmeter/Gatling/LoadRunner/BlazeMeter to generate the valid login stress to test the load performance of Outlook.com
Expected Results	It's should be fine as the Microsoft has the CDN and Cloud to elastic the service
Actual Results	
Pass / Fail	
Additional Info	

4.2.3 Exit Criteria

- All planned Test Cases have been executed. A full explanation has been documented and agreement obtained from relevant parties for any Test Cases not executed
- No Severity and/or Priority 2 or higher defects are outstanding. Any outstanding Severity and/or Priority 2 or higher defects, with or without workarounds, have been agreed with the Client as acceptable
- All System Test deliverables have been reviewed and signed-off