

QA & Automation Task

**Test SUMMARY REPORT**

Sahaya Divahar Robinson

(Software Engineer in Quality)

Montreal, Canada

# TESTING TASK

# Given User Story:

As a User I want to be able to sign up for new account on web site www.appdirect.com by clicking on Login link and then Signup link. Signup page will suggest enter an email address and once it’s entered will send out activation email.(Note: Verification of email notification is not subject of test, just behavior of the signup page)

*Observation: The User Story seems that is not well defined, and lacks some of the key things like Acceptance Criteria, description, defined scope and details, definition of done (DOD) etc.*

# QUESTIONS & ANSWERS: PRODUCT OWNER:

# On the basis of the given user story and application’s behavior the questions have been asked and assumed that I got the answers as below.

# The term “User” here in the user story refer to the signup functionality for the regular users or the Partner Users?

# Regular users’ signup workflow and not the partner’s signup.

# Is the flow explained in the user story description applicable to the mobile browsers?

# Ideally the flow should be the same, but the scope is limited to web browsers.

# Does this feature has a specific design aspects (UI and UX), non-functional aspects (performance, authenticate mechanism) has specific requirements.

# No, the feature should follow the AppDirect standards with the same non-functional and UI/UX specs.

# Can the internal users (@appdirect.com domain) can sign up with valid credentials? If yes, is there a change in the flow?

# Yes, the internal users can sign up and the flow is same except the notification message.

# What should be the behavior of the signup page when already registered user signs up?

# The application should notify the user about the prior-registration.

# Is this Signup feature is going to be a SSO for all the products suites across?

# Yes.

# Can I please have the scope defined for this user story with a defined boundary?

# User should be able to get to the Marketplace Signup from AppDirect Home.

# User should be able to Sign Up with a valid credentials.

# The Application should gracefully handle valid and invalid signup attempts and notify the same.

# Validation of the email trigger or activation is not in scope.

# USER STORY

# Redefined User Story:

[APD-001] As a regular User, I want to be able to perform new marketplace account signup activity via AppDirect login link, So that I can proceed further with the Account Registration steps to secure a new account with AppDirect.

**Description:**

The user should be able to sign up for new account on web site www.appdirect.com by clicking on Login link and then Signup link. The Signup page will suggest enter an email address and once it’s entered will send out activation email and notify the users.

**Size:**

Medium (T-Shirt Sizing)**,** assuming all the dependencies has been resolved and the story is ready to take up.

**Acceptance Criteria:**

# User should be able to get to the Marketplace Signup from AppDirect Home.

# User should be able to Sign Up with a valid credentials.

# The Application should gracefully handle valid and invalid signup attempts and notify the same to the users.

# Validation of the email trigger or email activation is not in scope.

# Definition Of Done:

# The feature should be in-align with the AppDirect coding and design standards.

# Unit testing is done for the feature and Code Coverage is take care. (80%)

# The Non-Functional Aspects of the feature is in-align with the AppDirect standards.

# Test cases are written, got reviewed and checked in to Test Cases Repository.

# Automation test coverage is done for all possible cases and added to the existing suites.

# TEST CASES:

# Approach:

# The test cases are written based on the outcomes of Backlog Grooming, Story Estimation, Team Discussion, Discussion with Product Manager and the Technical Specs (APIs, Environment etc.).

# Classification

# The tests are classified based on the its types as below,

# Functional:

# Positive Cases

# Negative Cases

# Edge Cases

# Non-Functional

# Priority:

# The Test Cases are also labelled with the Priority, ranging from P1 to P4. Where P1 has the highest priority and P4 has the least.

# Tests:

# The tests are written in MS Excel and you can find it in the same folder. The name of the test case file is – AppDirectTests.xlsx

# The Test Template followed is like below,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test ID** | **Test Name** | **Test Description** | **Priority** | **Pre-Requisite** | **Test Steps** | **Expected Result** |
|  |  |  |  |  |  |  |
|  |  |

# 

# QA - TEST EXECUTION

The findings and outcomes of the test execution for the above user story APD-001 are summarized as

* Possible Defects (low priority and severity)
* Observations
* Enhancement Requests

# Possible Defects:

# The Email Input Field accepts 255 characters and on registration confirmation message, this long email characters looks not very good. (This may not happen in the real time but certainly would advise to limit the characters or to notify the users as google does based on the field validations)

# C:\Users\sdivahar\Documents\AppDirectDocs\Defect-ScreenCaptures\MaxCharacters.PNG

# C:\Users\sdivahar\Documents\AppDirectDocs\Defect-ScreenCaptures\GoogleAsExample.PNG

# The validation message like “Please fill the field/@is missing etc.” that are shown to the users on an invalid signup attempt are getting varied from browsers to browsers. It could be really nice to set the same message across the browsers.

# Observations & Enhancement Request:

# From the Visual Design Standpoint, the AppDirect ([www.appdirect.com](http://www.appdirect.com)) is very rich, feels responsive and premium. But when we get to the [www.marketplace.appdirect.com](http://www.marketplace.appdirect.com), it lacks that modern touch when compared to the home. I am aware that the marketplace shouldn’t be super fancy, but at the same time it should be matching or should be in-align with the whole design standards.

# The application couldn’t differentiate users that has an account already vs the user that has registered but not activated the account. When the user attempts a new signup, it says on a high level that the email is already registered with the system. It could be nicer to have it differentiated like below,

* **Existing Users**: Hey, it seems like you already have an account with this email address. Would you like to Login now?
* **Non-Activated** Users: Hey, this email has already been registered with us but not activated. Would you like to activate now?

# The “SignUp” Button and the “SignUp” footer link does the same job. But I think this might confuse the users the users at times. It’s better to decide between the Button/Footer Link.

# The “Partner SignUp” and regular user SignUp is not differentiated very much. It could be nicer if we can have the label text something like - "Are you a developer and interested in partnering, Join us here"

# As a naïve user, I would expect to see some reasons to sign up. The message that actually motivates and tells how it will benefits me when I sign up for a new account. I think it would be nice to see a simple but elegant motivation message/label/tagline in the Sign up Page.

1. The application allows the user to perform signup registration with a valid email format but that necessarily need not be an actual existing email accounts. On the other hand, this behavior could be exploited by the robots to trigger junk emails. Would be nicer to have an “I am not a robot check” by using a simple & subtle checkbox.

# I think it would be nicer to have the “AppDirect” label added near to the Logo in the marketplace page.

# TEST AUTOMATION TASK

# The test cases (automation candidates) are automated using Selenium API. The test automation design follows the Page Object Model (Page Factory) design the details of the framework and tests can be found at “README.md” file which is found within the root folder of the Git Repository.

# The Test Automation Project can be cloned or downloaded from - <https://github.com/rdivahar/apd-automation.git>

**Tools Used;**

* Java
* Selenium
* TestNG
* Extent Reports
* GitHub
* Log4J
* Maven
* Eclipse
* Jenkins CI
* Google Cloud Platform

# Highlights:

* The Framework is kept as dry as possible.
* All the automated tests are mapped to the actual functional tests using Test IDs.
* The Test Data can be passed from CSVFiles, TestNG xml and DataGenerators using DataProviders.
* Logging mechanism along with the TestNG Listeners are implemented for better debugging
* Responsive HTML Result Reports are generated by the tests.
* Take Screenshots On failure – Error Capturing is Implemented.
* Parallel execution of tests

# Screen Shot On failure

# 

# Test Report Dashboard

# 

# 

**Future Work [Not in this Testing Task Scope]:**

* I have spinned up a VM from Google Cloud Platform. – Done
* **Currently integrating the tests with Jenkins + GitHub + Sauce Labs for CI pipeline setup.** [Not in the scope but I’ll share you the details if the team is interested]