# Software Testing - Assignment 1 (Project Phase-1)

# Due Date: 30/Sep/2022; Total Marks: 90

Assignment-1 Overview	2
Task 1: Setup team and workspace (10 Marks)	3
Task-2: Create Team Tasks (10 Marks)	4
Task-3: Create Some User Stories for Selected Features (10 Marks)	5
Task-4: Create Some Test Scenarios Using Gherkin Language (30 Marks)	6
Task-5: Create Test Plan and execute Tests (20 Marks)	8
Task-6: Explore other Test Management Tools (10 Marks)	10

### **Assignment-1 Overview**

Assignment-1 is focused on

- Setting up test environment including
  - Setting up workspace for collaboration and tracking
  - Setting up application for test environment
  - Settings up Test Management Tool
  - Task Allocation
- Test case writing
  - Understanding application features
  - Create test cases for selected user stories

Note, you will be graded based on regular activity. A lot of marks will be deducted on last date submissions even if you complete everything. So use the tools properly to track your regular progress:

- Make proper use of your task board to depict who worked on the project?
  When was it started? And when was it completed?
- Use of Google docs / Word docs is not allowed for documentation during the tasks. Document using Notion/Slick/Clickup/Confluence. Or create a git repository to document.
- Share the link of your document in your slack channel whenever you create one
- Commit your changes to your git repository frequently and push to github/gitlab. Create a merge request when done and review it with everyone.
- Share the link of your merge request / pull request in slack channel whenever you create one

### Task 1: Setup team and workspace (10 Marks)

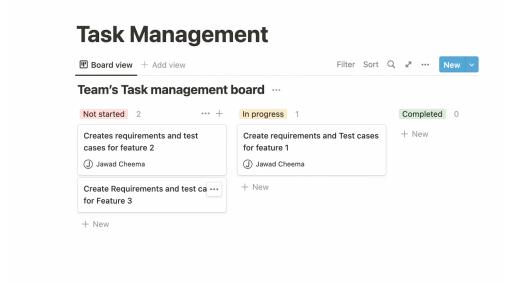
- Create a Team of 2-3 people
- Select project
  - One of following Open Source tools
    - Elasticsearch (Java based search engine)
      - <a href="https://github.com/elastic/elasticsearch">https://github.com/elastic/elasticsearch</a>
    - Featurehub (Java based feature flag management tool)
      - https://github.com/featurehub-io/featurehub
    - Shopizer ( Java based headless-ecommerce)
      - https://github.com/shopizer-ecommerce/shopizer
    - Reaction Commerce (React and Node based e-commerce)
      - <a href="https://github.com/reactioncommerce/reaction">https://github.com/reactioncommerce/reaction</a>
    - ReactStorefront ( React Based eCommerce Storefront)
      - https://github.com/storefront-foundation/react-storefront
    - Metabase (Clojure based BI and analytics tool)
      - https://github.com/metabase/metabase
      - Magento (PHP based ecommerce platform)
        - <a href="https://github.com/magento/magento2">https://github.com/magento/magento2</a>
    - Discuss and select another based on your career interest
- Setup Channel, workspaces, and agile board
  - Create a Slack channel in our current workspace. Add me along with other team members
  - Create workspace on (Notion / Slite / Clickup / JIRA + Confluence) for documentation and task management. Also add me (jawad.khalid@nu.edu.pk) and your TA (<u>I181333@lhr.nu.edu.pk</u>) along with other team members
  - Create a group on github/gitlab. Also add me (jawadkc for github / jcheema for gitlab) and your TA (<u>I181333@lhr.nu.edu.pk</u>) along with other team members to the group
- Schedule a weekly meeting
  - Schedule a weekly meeting and invite me (jawad.khalid@nu.edu.pk) and TA(I181333@lhr.nu.edu.pk) along with your team members

## Task-2: Create Team Tasks (10 Marks)

Select some sections/features of the application based on your selected project. And then create tasks on your task board for each team member. These tasks should include things that needs to be done including

- Project setup
- Write user stories
- Create Test Cases (everyone needs to write their own set of test cases)

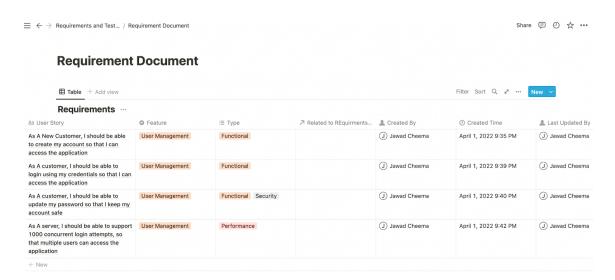
https://wax-waxflower-357.notion.site/Task-Management-93628b820d4e4075ad003d6e1e98d8e3



# Task-3: Create Some User Stories for Selected Features (10 Marks)

Write some user stories from the selected section. Here is an example of user stories based on login functionality. **There should be at-least 3 user stories per person.** 

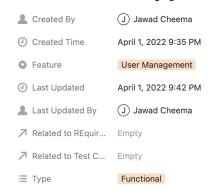
https://wax-waxflower-357.notion.site/Requirement-Document-6119e6a7a8b04707ae17f0767a9e3815



### Each scenario should have following properties

https://wax-waxflower-357.notion.site/As-A-New-Customer-I-should-be-able-to-create-my-account-so-that-I-can-access-the-application-0331972317e0455cb06fde0eb46aaa2d

# As A New Customer, I should be able to create my account so that I can access the application



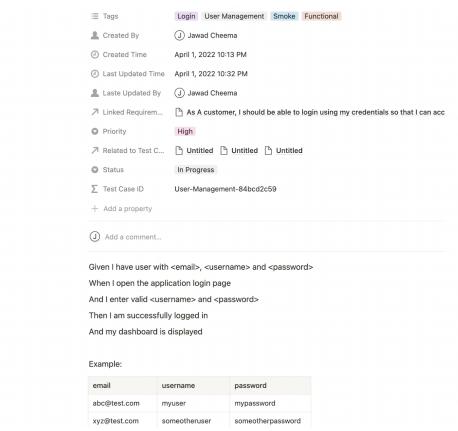
# Task-4: Create Some Test Scenarios Using Gherkin Language (30 Marks)

Write some test scenarios for each selected feature using Gherkin language <a href="https://wax-waxflower-357.notion.site/Test-Cases-Management-4b2ed842a5fb491faa329781">https://wax-waxflower-357.notion.site/Test-Cases-Management-4b2ed842a5fb491faa329781</a> c55555def

#### **Test Cases Management ■ Table** + Add view Filter Sort Q № ··· New V Feature: User Management - Test Cases ---Aa Test Scenario ≡ Tags + :: User-Management-Scenario Outline: User is 🛂 OPEN In Progress should be able to login 84bcd2c59 Login using valid Credentials User Management using my credentials so that I can access the Smoke Functional application User-Management-Scenario Outline: User gets a As A customer, I Login High Approved 06d62ef4d correct error message on invalid login User Management should be able to login using my credentials so Smoke Functional that I can access the application + New

### Each scenario should have following properties

https://wax-waxflower-357.notion.site/Scenario-Outline-User-is-able-to-Login-using-valid-Credentials-684bcd2c59da4ee697e723642b5f236f



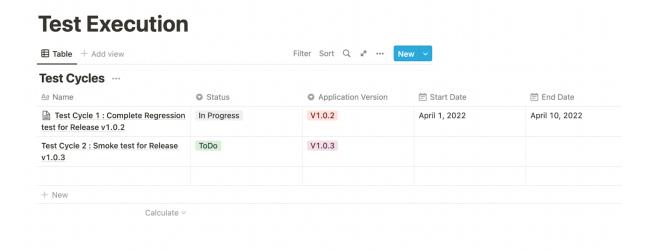
### Each scenario should use Scenario or Scenario Outline template as follows

	$+ \ \mathop{::} \ $ Given I have <value 1=""></value>		
Given I have	When I do using <value 2=""></value>		
When I do	And		
And	Then		
	And		
Then			
And	Example:		
	value 1	value 2	
	abc	abc	
	abc	abc	

### Task-5: Create Test Plan and execute Tests (20 Marks)

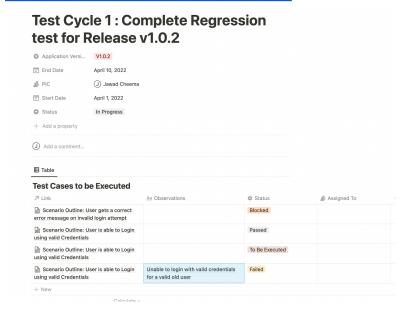
### Create a test plan similar to

 $\frac{\text{https://wax-waxflower-357.notion.site/Test-Execution-ac8ceeb154d647e28001011827ce4c5}{\underline{5}}$ 



#### Add test cases to test plan

https://wax-waxflower-357.notion.site/Test-Cycle-1-Complete-Regression-test-for-Release-v 1-0-2-fc26c6ea93524e29b9dfe976ef524e1a



**Execute Test cases** 

Test Cases to be Executed		
<b>才</b> Link	<u>Aa</u> Observations	Status
Scenario Outline: User gets a correct error message on invalid login attempt		Blocked
Scenario Outline: User is able to Loginusing valid Credentials		Passed
Scenario Outline: User is able to Login using valid Credentials		To Be Executed
Scenario Outline: User is able to Loginusing valid Credentials	Unable to login with valid credentials for a valid old user	Failed
+ New		
Calculate V		

# Task-6: Explore other Test Management Tools (10 Marks)

Explore any of the following test management tools and create notes on the benefits of using advanced test management tool with examples from the tool you explored:

- Zephyr
- PractiTest
- Kualiee
- Tuskr
- Gemini
- Fitnesse