

An-Najah National University

Quality Assurance testing  
Test plan

Made by:

Mosaab Odeh

Rateeba sawalha

1 Introduction....................................................................................................... 3

2 Business Background ............................................................................... 3

3 TestObjectives ..................................................................................... 3

4 Scope....................................................................................................... 3

11 Security...................................................................................................... 4

# 

# **Introduction:**

The Test Plan includes the objectives, scope, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

we used the black-box testing to test an website

1.1 **Objectives:**

The system aims to monitor students' activity in class and groups,in addition to students can see his grade and his goals .

**1.2 Test strategies**

We used Black-box strategies because they help to find the gaps in functionality, usability, and other features. This form of testing gives an overview of software performance and its output. It improves software quality and reduces the time to market. This form of testing mitigates the risk of software failures at the user’s end.

* input → Test Data
* output → Actual Result

1. **Business Background:**

is a website called Goals for an university called Middlesex University London is a public research university in Hendon, northwest London, England, used for researching projects between the staff and students.

1. **Test Objectives:**

1- Functionality: To test the functionality of the student grading system, including managing students and other staff, overseeing and managing goals, as well as observing goal progress.

2- Usability: To test the usability of the system, including ease of use, user interface design, and user experience for both teachers and students.

4. **Scope**

* In Scope :

As the software requirement specs, the project “Goals”  
only focus on testing all the functions (academic weeks,staff Page ,student page ) , correctness, security

, Loading time , Portability and external interface of website Goals

### Out of Scope :

some nonfunctional testing such as stress, and logical databases, HTTP requests and will not be tested and in functional (Goals ,Dashboard).

**5. Assumptions / Risks**

5.1 Assumptions :

1.staff are allowed to set and track goals related to their modules.

2.the website may provide a visual representation of progress towards goals, such as charts or graphs.

3.Students can see the goals they have and their grades

5.2 Risks :

| Risks | Mitigation |
| --- | --- |
| Team members lack the required skills for website testing. | Plan training course to skill up your members |
| shortest time of testing | Use agile methodologies , Use automation , Prioritize testing |
| API is not Available | Review API documentation , Check API usage limits , Contact the API provider |
| Test Manager has poor management skill | Plan leadership training for manager |
| Network Issue | Address hardware or software problems , Add network capacity |
| The project schedule is too tight; it’s hard to complete this project on time | Set Test Priority for each of the test activities. |
| A lack of cooperation negatively affects your employees’ productivity | Encourage each team member in his task, and inspire them to greater efforts. |
| Wrong budget estimate and cost overruns | Wrong budget estimate and cost overruns |

**6. Resource & Environment Needs**6.1 Test Resource **:**

| Resources | Descriptions |
| --- | --- |
| Server | This includes a separate web server, database server |
| Network | You need a Network include LAN and Internet to simulate the real business and user environment |
| Computer | The PC which users often use to connect the web server |

6.1 Test Environment

* need to be a student or staff
* user need to have computer and internet network
* URL for Goals website
* Rest API Link

**7. Test scenarios :**

**8.1 Functional Testing:**

1.1 - Check the registration Functionality

1.2 - Check the Login Functionality

1.3 - Check the Logout Functionality

1.4 - Check the Change password Functionality

1.5 - Check the Search Button Functionality  
1.6 - Check the add Button Functionality  
1.7 - Check the Delete Button Functionality  
1.8 - Check the Save Button Functionality

1.9 - Check the Cancel Button Functionality

**5.2 Non-functional Testing: see the table for more cases**

2.1 -Loading page time : The speed of loading pages on the phone is 3.3 seconds.

2.2 -Check that the app is adaptable to different

browsers “ Portability”. :

In Firefox, when you log out, then you return with the arrow to return you to the page, either in Edge or Chrome.

2.3 -The correctness: When you click on the student information, you will not get the old information, and you must do a refresh .

2.4 -Check the Security: system does not go to the login page.

When logged in user copy URL and paste in new browser window, app Open the same page that the URL was copied to.

if the user logged out when clicked back arrow system back for the user page.

2.5 -Check the correctness dataof the app

2.6 -Verify the login session timeout duration

# **8.Techniques**

##### **The black box testing techniques were used for each test scenario**

1. student page: EC

To minimize the number of test cases we use these three conditions to check

- valid / valid

- valid / invalid

- invalid / valid

1. staff
2. academic weeks : EC

**9. Test Cases :**

**10. List of faults:**

| Faults | correct |
| --- | --- |
| invalid email is allow :  -"testAtgmail.com "not allow  - "test@gmailcom " allow - " test@gmail" allow | It should show the validation message for valid email |
| search history does not be displayed | search history should be displayed |
| After idle for time more than session time The system does not go to the login page | the system go to the Login page after idle for time more than session time |
| When logged in user copy URL and paste in new browser window, app Open the same page that the URL was copied to | When logged in user copy URL and paste in new browser window should redirect to Login page |
| If the staff enters the username of a user that does not exist, or when it is misspelled, is added successfully | Check if the username valid ( regression in the system ) |
| It does not ignore uppercase and lowercase letters and considers them to be a different name | Ignore uppercase and lowercase letters and consider them as a single user |
| The speed of loading pages on the phone is 3.3 seconds | Improving the quality of the internet connection by using multi-download technologies and modern wireless network features can help increase the speed of mobile applications.Use dedicated delivery servers for fast delivery as CDN and Reduce and optimize code size. |
| the data is not up to date | if the student or staff delete a goal it should to delete the student/staff automatically from the students/staffs have registered in the goal |
| Security: if the user logged out when clicked back arrow system back for the user page | Only authenticated users can log in to the application |