

Master Test Plan for the course Project

SWE 326: Software Testing and Quality Assurance

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History

Version	Date	Author	Changes

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1. Introduction

1.1. The Project

This document describes the project.

1.2. Overview

1.2.1. Test Organization

Each team member worked on every phase, but we had rotated leadership as follows:

Phase 1: YOUSUF ALANSARY

Phase 2: ABDULAZIZ AL-YAHYA

Phase 3: MAHDI ALKHALAF

Phase 4: MOSA ALSHAKHOURI

1.2.2. System Under test (SUT)

A PHP website for managing publications. It contains the following main components:

- Main page
- Faculty view
- Admin view
- publications
- Statistics
- Search
- Registration/login features
- Edit profile features

1.2.3. Testing types

All of our tests were functional.

1.2.4. Features to be tested

We tested the following requirements collected from the SRS.

- System enables faculty/researchers to manage their portfolios.
- System allows generating resumes from templates.
- System provides capabilities for users to create profile showcasing websites.

- System allows admins to generate various reports.
- Visitors can search for publications and view faculty portfolios and statistics.
- Users can request the creation of a new portfolio.
- Admins can approve portfolio requests.
- Users can view their portfolios.
- Users can update and manage their portfolios.
- Users can delete their portfolios.
- Users can add/manage publications in their portfolios.
- Users can add/manage memberships in professional societies.
- Admins can generate system usage statistics.
- System provides anonymous access for searching publications.
- System provides a secure login mechanism for users.
- Admins can manage user accounts and permissions.
- The system shall display the number of faculty members.
- The system shall display the faculty names.
- The system shall display the faculty IDs.
- The system shall display the number of researchers.
- The system shall display the researchers names.
- The system shall display the researchers IDs.
- The system shall generate a resume for the user.
- The system shall generate a website for the user.
- The system shall generate a report for the admin.
- The system shall allow the faculty to select a template offered by the system.
- The system shall allow the faculty to upload docx files.
- The system shall allow the faculty to upload pdf files.
- The system shall allow users to input their education level.
- The system shall allow the user to input their current job.
- The system shall allow faculty to request adding their portfolio.
- The system shall display the number of portfolio requests to admins.
- The system shall display to the admin the name of the user who sent portfolio request.
- The system shall allow the user to search among publications uploaded.
- The system shall allow users to log into the website anonymously.
- The system shall allow anonymous users to view faculty portfolio.
- The system shall notify admins with duplicated uploads.
- The system shall allow admins to remove duplicated uploads from the website.
- The system shall allow admins to disable the upload functionality from chosen users.
- The system shall allow users to sign up.
- The system shall allow users to log in.

- The system shall allow faculty to change visibility of their portfolio.
- The system shall allow the faculty to remove his generated resume.
- The system shall allow the faculty to remove his generated website.
- The system shall allow the faculty to modify his generated resume.
- The system shall allow the faculty to modify his generated website.
- The system shall allow the faculty to export his portfolio.
- The system shall allow the admin to export his portfolio

1.2.5. Features not to be tested

The following requirements could not be tested:

- System adheres to KSA guidelines and rules.
- Implemented using HTML, CSS, JavaScript, PHP, and MySQL.
- Modeling to be done on Enterprise Architect.
- Designed using UML and UWE as the modeling language.
- System server to be hosted on the CCSE server.
- Website must pass HTML and CSS validation tests.
- System is for KFUPM members' use only.
- System is to be used within KFUPM only.
- All web pages must pass HTML and CSS validation tests.
- Use of Axure RP 8 for creating UI mock-ups is assumed.
- Visitors can view faculty portfolios and statistics without logging in.
- System ensures confidentiality and integrity of faculty data.
- The system shall allow the user to edit their current job.
- The system shall allow the user to edit their education level.
- The system shall allow the faculty to import his portfolio.
- The system shall allow the admin to import his portfolio.

1.3. Test Environment and Tools

- Windows
- PHP xampp install
- Browser
- Apache
- MySQL

1.4. Document Structure

This document follows (not strictly) the template for test plans in IEEE standard for software test documentation [IEEE829].

2. System Test

2.1. System Requirements

All requirements extracted from the SRS document are listed in the following table:

RN	Description
R1	System enables faculty/researchers to manage their portfolios.
R2	System allows generating resumes from templates.
R3	System provides capabilities for users to create profile showcasing websites.
R4	System allows admins to generate various reports.
R5	Visitors can search for publications and view faculty portfolios and statistics.
R6	Users can request the creation of a new portfolio.
R7	Admins can approve portfolio requests.
R8	Users can view their portfolios.
R9	Users can update and manage their portfolios.
R10	Users can delete their portfolios.
R11	Users can add/manage publications in their portfolios.
R12	Users can add/manage memberships in professional societies.
R13	Admins can generate system usage statistics.
R14	System provides anonymous access for searching publications.
R15	System provides a secure login mechanism for users.
R16	Admins can manage user accounts and permissions.
R17	The system shall display the number of faculty members.
R18	The system shall display the faculty names.
R19	The system shall display the faculty IDs.
R20	The system shall display the number of researchers.
R21	The system shall display the researchers names.
R22	The system shall display the researchers IDs.
R23	The system shall generate a resume for the user.
R24	The system shall generate a website for the user.
R25	The system shall generate a report for the admin.
R26	The system shall allow the faculty to select a template offered by the system.
R27	The system shall allow the faculty to upload docx files.
R28	The system shall allow the faculty to upload pdf files.
R29	The system shall allow users to input their education level.
R30	The system shall allow the user to input their current job.
R31	The system shall allow faculty to request adding their portfolio.

R32	The system shall display the number of portfolio requests to admins.
R33	The system shall display to the admin the name of the user who sent portfolio request.
R34	The system shall allow the user to search among publications uploaded.
R35	The system shall allow users to log into the website anonymously.
R36	The system shall allow anonymous users to view faculty portfolio.
R37	The system shall notify admins with duplicated uploads.
R38	The system shall allow admins to remove duplicated uploads from the website.
R39	The system shall allow admins to disable the upload functionality from chosen users.
R40	The system shall allow users to sign up.
R41	The system shall allow users to log in.
R42	The system shall allow faculty to change visibility of their portfolio.
R43	The system shall allow the faculty to remove his generated resume.
R44	The system shall allow the faculty to remove his generated website.
R45	The system shall allow the faculty to modify his generated resume.
R46	The system shall allow the faculty to modify his generated website.
R47	The system shall allow the faculty to export his portfolio.
R48	The system shall allow the admin to export his portfolio

2.2. System Test Cases

Test Case Title	profile Management Functionality
Test Case ID	TC01
Requirement IDs	R1
Author	Yousuf
Description	Verify that faculty/researchers can create, edit, and delete profile entries.
Initial State	User is logged in with faculty/researcher credentials, and the portfolio section is accessible.
Test Steps	1. Log in as a faculty member. 2. Navigate to the profile management section. 3. Add a new profile entry. 4. Edit an existing profile entry. 5. Delete an existing profile entry.
Expected Output	1. New entry should be displayed in the portfolio. 2. The edited entry should reflect changes. 3. The deleted entry should no longer be present in the portfolio.
Priority	High
Test Type	Functional
Test Case Title	Resume Generation from Template
Test Case ID	TC02

Requirement IDs	R2
Author	Yousuf
Description	Ensure the system allows users to generate resumes from various templates.
Initial State	User is logged in, and the resume generation tool is accessible.
Test Steps	1. Log in as a user. 2. Navigate to the resume generation section. 3. Choose a resume template. 4. Input required information. 5. Generate resume.
Expected Output	A completed resume, formatted according to the selected template and containing the inputted information, is created and viewable.
Priority	Medium
Test Type	Functional
Test Case Title	Profile Website Creation
Test Case ID	TC03
Requirement IDs	R3
Author	Yousuf
Description	Test the capability of the system to allow users to create and publish profile showcasing websites.
Initial State	User is logged in with access to website creation tools.
Test Steps	1. Log in as a user. 2. Navigate to the 'Create Website' section. 3. Use the provided tools to design the website. 4. Save and publish the website.
Expected Output	The user's website is created, saved, and published according to the design choices made with the tools provided.
Priority	Medium
Test Type	Functional
Test Case Title	Administrative Report Generation
Test Case ID	TC04
Requirement IDs	R4
Author	Yousuf
Description	Ensure the system allows admins to generate various types of reports.
Initial State	Admin is logged in with access to reporting tools.
Test Steps	1. Log in as an admin. 2. Navigate to the reporting section. 3. Select the type of report to generate. 4. Generate the report.
Expected Output	The admin is able to generate the selected type of report, which reflects current data and statistics.
Priority	High
Test Type	Functional
Test Case Title	Visitor Access to Search and View Publications

Test Case ID	TC05
Requirement IDs	R5
Author	Yousuf
Description	Test if visitors can search for publications and statistics without logging in.
Initial State	The user is not logged in and is on the public access page.
Test Steps	1. Access the system's public page. 2. Use the search function to find publications.
Expected Output	The visitor is able to search for and view details of publications and faculty portfolios without needing to log in.
Priority	Medium
Test Type	Functional
Test Case Title	New Portfolio Creation Request
Test Case ID	TC06
Requirement IDs	R06
Author	Yousuf
Description	Verify that users can submit requests to create a new portfolio.
Initial State	User is logged in with no existing portfolio.
Test Steps	1. Log in as a user without a portfolio. 2. Navigate to the portfolio request section. 3. Fill in the request form with portfolio details. 4. Submit the request.
Expected Output	The request is submitted successfully, and a confirmation is displayed. An admin should receive the request for approval.
Priority	High
Test Type	Functional
Test Case Title	Admin Approval for Portfolio Creation
Test Case ID	TC07
Requirement IDs	R07
Author	Yousuf
Description	Test the admin's ability to approve or reject portfolio creation requests.
Initial State	Admin is logged in, and there are pending portfolio requests.
Test Steps	1. Log in as an admin. 2. Navigate to the portfolio request approval section. 3. Select a pending request. 4. Approve the request.
Expected Output	The selected portfolio request is approved, and the user is notified of the approval. The portfolio becomes active.
Priority	High
Test Type	Functional
Test Case Title	Viewing User Portfolios
Test Case ID	TC08
Requirement IDs	R08

Author	Yousuf
Description	Verify that users can view and access their portfolios.
Initial State	User is logged in and has an existing portfolio.
Test Steps	1. Log in as a user. 2. Navigate to the 'My Portfolio' section. 3. Select and open the portfolio.
Expected Output	The user's portfolio is accessible and viewable with all the contained information displayed correctly.
Priority	High
Test Type	Functional
Test Case Title	Updating User portfolio
Test Case ID	T9
Requirement IDs	R9
Author	ABDULAZIZ
Description	Verify that users can change and update their personal information
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User is logged in and has an existing portfolio.
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'My Portfolio' section 3- Select "Edit Profile" button 4-after changing the information click "Save Changes" button.
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The user portfolio is updated and it displays the updated information
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Deleting User Portfolio
Test Case ID	T10
Requirement IDs	R10
Author	ABDULAZIZ
Description	Verify that users can delete their personal account.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User is logged in and has an existing portfolio.
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'My Portfolio' section 3- Select "Delete Profile" button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	User account is deleted successfully
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Test Case Title	Managing publications
Test Case ID	T11
Requirement IDs	R11
Author	ABDULAZIZ
Description	Verify that users can manage (add/delete/edit) their publications
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User is logged in and has an existing portfolio.
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'My Portfolio' section 3- Select "Publications" 4-click "Manage your publications " button . 5-click "edit your publications " button 6-click "delete your publication " button 7-click " Add a publication " button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	Users can manage their account successfully
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Managing Memberships
Test Case ID	T12
Requirement IDs	R12
Author	ABDULAZIZ
Description	Verify that users can manage (add/delete) their Memberships in societies (groups).
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User is logged in and has an existing portfolio.
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'My Portfolio' section 3- Select "Groups" 4-click "Manage your groups " button . 5-click "Remove group " button 6-click " Join a group " button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	Users can manage their groups successfully
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Generating system usage statistics
Test Case ID	T13
Requirement IDs	R13
Author	ABDULAZIZ
Description	Verify that admins can generate system usage statistics.

Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User is logged in and is an admin.
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'View Statistics" section
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	the system usage statistics is generated successfully
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Anonymous publications search
Test Case ID	T14
Requirement IDs	R14
Author	ABDULAZIZ
Description	Verify that the user can anonymously (not signed in) search for publications.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user can access the website.
Test steps (inputs, actions, etc.)	1- use the search bar in home page 2- choose "publications" 3-click search
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	the user can search publications anonymously .
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Secure Login mechanism
Test Case ID	T15
Requirement IDs	R15
Author	ABDULAZIZ
Description	the system should apply Secure mechanism before allowing the user to login.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	The user is on the login page of the application
Test steps (inputs, actions, etc.)	1-Enter a username 2-Enter a password 3-enter the pin code sent to the user E-mail
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	User Logs in successfully
Priority (High/Medium/Low)	High

Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Admin Manages User Accounts and permissions
Test Case ID	T16
Requirement IDs	R16
Author	ABDULAZIZ
Description	Verify that an admin user can manage(add/delete/update)user accounts and Permissions (allow/reject).
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	the user is an admin
Test steps (inputs, actions, etc.)	1-Login in 2-Navigate to the 'Manage users' section 3- click "Add user" button 4-click "Delete user " button . 5-click "Update user " button . 6-click "Permissions" button 7-select a permission request 8-click "Allow" button 9-click "Reject" button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The admin is able to successfully create, update, and delete user accounts.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display Number of Faculty Members
Test Case ID	T17
Requirement IDs	R17
Author	ABDULAZIZ
Description	Verify that the system displays the correct number of faculty members.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user can access the website.
Test steps (inputs, actions, etc.)	1- use the search bar in home page 2- choose "Faculty" 3- click search
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The system accurately displays the total number of faculty members registered in the system
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display Names of Faculty Members
Test Case ID	T18
Requirement IDs	R18
Author	ABDULAZIZ

Description	Verify that the system displays the correct names of faculty members.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user can access the website.
Test steps (inputs, actions, etc.)	1- use the search bar in home page 2- choose "Faculty" 3-click search
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The system accurately displays the names of faculty members registered in the system
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display IDs of Faculty Members
Test Case ID	T19
Requirement IDs	R19
Author	ABDULAZIZ
Description	Verify that the system displays the correct IDs of faculty members.
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user can access the website.
Test steps (inputs, actions, etc.)	1- use the search bar in home page 2- choose "Faculty" 3-click search
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The system accurately displays the IDs of faculty members registered in the system
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display number of researchers
Test Case ID	T20
Requirement IDs	R20
Author	ABDULAZIZ
Description	Verify that the system displays the correct number of researchers(users with publications).
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user can access the website.
Test steps (inputs, actions, etc.)	1- use the search bar in home page 2- choose "Publications" 3-click search

Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The system accurately displays the number of researchers registered in the system
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	display the researcher name
Test Case ID	T21
Requirement IDs	R21
Author	Mahdi
Description	any kind of user who access the research can see who is work on it
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	No pre condition
Test steps (inputs, actions, etc.)	1- go to the main page 2- on research bar put the publication name 3- click on the publication
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	No post condition
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	display the researcher name
Test Case ID	T22
Requirement IDs	R22
Author	Mahdi
Description	this is another way that users can see who is working on this research by ID of the researchers
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	No pre condition
Test steps (inputs, actions, etc.)	1- go to the main page 2- on research bar put the publication name 3- click on the publication
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	no post condition
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	generate a resume
Test Case ID	T23
Requirement IDs	R23
Author	Mahdi

Description	from this feature, Faculty user can create a resume for faculty which include summery of your publication and in your profile
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user should have an account with faculty
Test steps (inputs, actions, etc.)	1- log in to your account 2- go to homw page for for faculty 3- click on generate PDF 4-create your own resume
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	store it in database for this website
Priority (High/Medium/Low)	high
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	generate a website
Test Case ID	T24
Requirement IDs	R24
Author	Mahdi
Description	Faculty can create a website that can add detail of profile , publication of research , and memberships of other article
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user should have an account with faculty
Test steps (inputs, actions, etc.)	1- log in to your account 2- go to home page for faculty 3- click on generate website 4- create your own website
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	website should be created for user
Priority (High/Medium/Low)	high
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	generate report
Test Case ID	T25
Requirement IDs	R25
Author	Mahdi
Description	user can see the statistic for the numbers of research that have been submitted on the website and kind of research
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in to website as an admin
Test steps (inputs, actions, etc.)	1- go to the home page 2- on nav bar click on view statistic 3- on statistic website, click on generate report

Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	showing report to the admin
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Template for resume
Test Case ID	T26
Requirement IDs	R26
Author	Mahdi
Description	user can use templates to create their own resume instead of created from scratch
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to the home page 2- click on generate pdf 3- it provide button that tells you can use templets and click on it
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	generate resume with template provide by system
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	upload dox file
Test Case ID	T27
Requirement IDs	R27
Author	Mahdi
Description	user can upload a resume with the doc formula that already exist
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to home page 2- click on generate pdf 3- click on upload file 4- choose doc formula
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	file uploaded to the website
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	upload pdf file
Test Case ID	T28
Requirement IDs	R28
Author	Mahdi

Description	user can upload a resume with the pdf formula that already exist
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to home page 2- click on generate pdf 3- click on upload file 4- choose pdf formula
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	,pdf file uploaded to the website
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	education level
Test Case ID	T29
Requirement IDs	R29
Author	Mahdi
Description	user can add his education level and display what academic certificated he take
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to the home page 2- on the nav bar click on profile 3- on profile page, click on edit 4- go to academic information
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	academic information will be updated
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	input current job
Test Case ID	T30
Requirement IDs	R30
Author	Mahdi
Description	user can include in his profile what the company he works for, and what he do on it
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to home page 2- on the nav bar, click on profile 3- click on edit 4- go to work experience

Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	work experience is updated
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Request adding portfolio
Test Case ID	T31
Requirement IDs	R31
Author	Mahdi
Description	the faculty can send request to the admin to add other portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as faculty
Test steps (inputs, actions, etc.)	1- go to home page 2- on nav bar, go to portfolio 3- click on profile 4- click on request portfolio
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	sends request to admin
Priority (High/Medium/Low)	Low
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display the number of portfolio request
Test Case ID	T32
Requirement IDs	R32
Author	Mahdi
Description	admin can see the number of portfolio requests from faculty per unit of time
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as admin
Test steps (inputs, actions, etc.)	go to home page
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	no post condition
Priority (High/Medium/Low)	Low
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Display the name of portfolio request
Test Case ID	T33
Requirement IDs	R33
Author	Mahdi

Description	admin can see also the name who send request portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	log in as admin
Test steps (inputs, actions, etc.)	1- go to home page 2- click on statistic for request portfolio 3- choose the name you want to display
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	no post condition
Priority (High/Medium/Low)	Low
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Search for publication
Test Case ID	T34
Requirement IDs	R34
Author	Mahdi
Description	any kind of user can search for publication that is in website
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	no pre condition
Test steps (inputs, actions, etc.)	1- go to home page 2- on search bar, write the publication name 3- click on search
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	no post condition
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Anonymous Browsing Functionality
Test Case ID	TC035
Requirement IDs	R35
Author	MOSA
Description	Ensure that users who select "anonymous" in the log in page will be sent to the home page
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	portfolio view is accessible, uploading is inaccessible
Test steps (inputs, actions, etc.)	1. Start on the log in page 2. click "anonymous" button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	1. User will be allowed to navigate through the website
Priority (High/Medium/Low)	Medium

Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Anonymous View Portfolio Functionality
Test Case ID	TC36
Requirement IDs	R36
Author	MOSA
Description	Ensure that users who log in anonymously can view portfolios
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	portfolio view is accessible, uploading is inaccessible
Test steps (inputs, actions, etc.)	1. Start on the log in page 2. click "anonymous" button 3. choose a portfolio and click on view.
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	1. user will be able to view portfolios
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	Functional
Test Case Title	Duplicate Uploads Notification
Test Case ID	TC37
Requirement IDs	R37
Author	MOSA
Description	Ensure that admins will receive a notification when a user uploads a file that is already available on the website
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	Admin signed up using a real email.
Test steps (inputs, actions, etc.)	1. log in using a faculty account. 2. upload a pdf file. 3. log out. 4. log in using another faculty account. 5. upload the same pdf file.
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	An email sent to admins notifying them of a duplicated upload
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Remove Duplicate Uploads
Test Case ID	TC38
Requirement IDs	R38
Author	MOSA
Description	Ensure that admins can remove files that are labeled duplicated

Initial State (based on Pre-conditions and other data that have available to conduct the test.)	there is a duplicated upload
Test steps (inputs, actions, etc.)	1. get the name of the duplicator from the email notification 2. log in using an admin account 3. navigate to the account 4. click remove button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The duplicated file is removed
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Disable Uploads from Users
Test Case ID	TC39
Requirement IDs	R39
Author	MOSA
Description	Ensure that admins can change the upload authority of users
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	logged in as an admin, upload authority set to enabled
Test steps (inputs, actions, etc.)	1. log in as an admin 2. navigate to the wanted user 3. change the upload authority from enabled to disabled 4. click save 5. log in using the wanted user account 6. try to upload a pdf file
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	User can not upload files
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Sign-up Functionality
Test Case ID	TC40
Requirement IDs	R40
Author	MOSA
Description	Ensure that users can make an account for the website
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	having a real email that was not used to create an account on the website
Test steps (inputs, actions, etc.)	1. Navigate to the sign up page. 2. enter information 3. click sign up button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	Send the user to the home page. send a congratulations message to his email.
Priority (High/Medium/Low)	High

Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Login Functionality
Test Case ID	TC41
Requirement IDs	R41
Author	MOSA
Description	Ensure that the system will bring the correct data for users who enter the correct credentials and will allow them to use the website functionalities
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User signed up to the website
Test steps (inputs, actions, etc.)	1. Navigate to the log in page 2. enter wrong credentials 3. enter correct credentials
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	When entering wrong credentials user stay on the same page with a error message. When entering correct credentials user will be sent to the home page
Priority (High/Medium/Low)	high
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Change Portfolio Visibility
Test Case ID	TC42
Requirement IDs	R42
Author	MOSA
Description	Ensure that users can change the visibility of their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User signed up to the website, logged in and visibility set to public
Test steps (inputs, actions, etc.)	1. Navigate to the user's profile 2. click on visibility button 3. change the visibility from public to private 4. log in using another user account 5. navigate to the previous user page 6. click on view portfolio
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	Other users will not be able to view the portfolio
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Remove Generated Resume
Test Case ID	TC43
Requirement IDs	R43
Author	MOSA

Description	Ensure that users can remove the generated resume from their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User logged in, Resume generated
Test steps (inputs, actions, etc.)	1. Login using a faculty account 2. navigate to the generated resume 3. click remove
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The generated resume is deleted
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Remove Generated Webiste
Test Case ID	TC44
Requirement IDs	R44
Author	MOSA
Description	Ensure that users can remove the generated website from their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User logged in, Website generated
Test steps (inputs, actions, etc.)	1. Login using a faculty account 2. navigate to the generated 3. click remove
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The generated website is deleted
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Modify Generated Resume
Test Case ID	TC45
Requirement IDs	R45
Author	MOSA
Description	Ensure that users can modify the generated resume in their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User logged in, Website generated
Test steps (inputs, actions, etc.)	1. Login using a faculty account 2. navigate to the generated resume 3. delete an item 4. add a new item 5. click save changes

Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The modifications are applied and saved
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Modify Generated Website
Test Case ID	TC46
Requirement IDs	R46
Author	MOSA
Description	Ensure that users can modify the generated website in their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	User logged in, Website generated
Test steps (inputs, actions, etc.)	1. login using a faculty account 2. navigate to the generated website 3. click remove 4. navigate to the faculty profile 5. add a new publication 6. remove another publication 7. navigate to the faculty home page 8. click generate a website.
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	The modifications are applied and saved
Priority (High/Medium/Low)	Medium
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Import Portfolio (Faculty)
Test Case ID	TC47
Requirement IDs	R47
Author	MOSA
Description	Ensure that Faculty can download their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user logged in as faculty, user entered information in the portfolio
Test steps (inputs, actions, etc.)	1. log in as a faculty 2. navigate to the portfolio page 3. click export button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	A pdf file starts downloading
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Export Portfolio (Faculty)
Test Case ID	TC48
Requirement IDs	R48

Author	MOSA
Description	Ensure that Admins can download their portfolio
Initial State (based on Pre-conditions and other data that have available to conduct the test.)	user logged in as faculty, user entered information in the portfolio
Test steps (inputs, actions, etc.)	1. log in as an admin 2. navigate to the portfolio page 3. click export button
Expected Output (based on Post-conditions and other outcomes specified in the flow of events.)	A pdf file starts downloading
Priority (High/Medium/Low)	low
Test Type (Functional, Performance, stress, etc.)	functional
Test Case Title	Export Portfolio (Admins)
Test Case ID	TC49

2.3. Report on the Execution of System Test Cases

Fill out the test execution report and document all found bugs using the templates below.

2.3.1. Execution Results

TC ID	Verdict (pass/fail/pass with exception)	Comments if fail or pass with exception (actual output vs expected output)	Bug ID	Exception Date	Author	Test Executor
TC01	Fail	when clicking edit it resets your data before user changes anything	B01	15 May 2024	yousuf alansary	yousuf alansary
TC02	Fail	not implemented	B02	15 May 2024	yousuf alansary	yousuf alansary
TC03	Fail	not implemented	B03	15 May 2024	yousuf alansary	yousuf alansary
TC04	Pass With Exception	not printable but viewable in home page	B04	15 May 2024	yousuf alansary	yousuf alansary
TC05	Pass With Exception	can check publications but can't access the publication just able to view it exists	B05	15 May 2024	yousuf alansary	yousuf alansary
TC06	Fail	not implemented	B06	15 May 2024	yousuf alansary	yousuf alansary
TC07	Fail	not implemented	B07	15 May 2024	yousuf alansary	yousuf alansary
TC08	Pass			15 May 2024	yousuf alansary	yousuf alansary

TC10	Pass			17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC11	Fail	Expected: delete user profile Actual: there is no option for that.	B8	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC12	Pass With Exception	Expected: Users can (add/delete/edit) their publications. Actual: there is no option for that.	B9	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC13	Fail	Expected: (add/delete) their Memberships in societies (groups). Actual: there is no option for that.	B10	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC14	Pass			17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC15	Pass			17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC16	Pass with exception	Expected: the system should apply a Secure mechanism before allowing the user to login. Actual: the system check only for secure email format but no authentication method is applied	B11	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC17	Fail	Expected: Admins can manage user accounts and permissions. Actual: there is no option for that.	B12	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC18	Fail	Expected: The system shall display the number of faculty members. Actual: It does not	B13	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC19	Pass			17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC20	Fail	Expected: The system shall display the IDs of faculty members. Actual: It does not	B14	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC21	Fail	Expected: The system shall display the number of researchers. Actual: It does not.	B15	17 May 2024	Abdulaziz Alyahya	Abdulaziz Alyahya
TC22	Pass			14/5/2024	Mahdi	Mahdi

TC23	Fail	When I click on the publication it does not show the ID researcher	B16	14/5/2024	Mahdi	Mahdi
TC24	Pass			14/5/2024	Mahdi	Mahdi
TC25	Pass			14/5/2024	Mahdi	Mahdi
TC26	Fail	This feature is not implemented	B17	14/5/2024	Mahdi	Mahdi
TC27	Fail	This feature is not implemented	B18	14/5/2024	Mahdi	Mahdi
TC28	Pass			14/5/2024	Mahdi	Mahdi
TC29	Pass			14/5/2024	Mahdi	Mahdi
TC30	Pass			14/5/2024	Mahdi	Mahdi
TC31	Fail	This feature is not implemented	B19	14/5/2024	Mahdi	Mahdi
TC32	Fail	This feature is not implemented	B20	15/5/2024	Mahdi	Mahdi
TC33	Pass			15/5/2024	Mahdi	Mahdi
TC34	Fail	When you click on the statistic for request portfolio, it will not show name of faculty	B21	15/5/2024	Mahdi	Mahdi
TC35	Pass			15/5/2024	Mahdi	Mahdi
TC36	Pass			12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC37	Pass			12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC38	Fail	Expected: upload pdf Actual: Uncaught mysqli_sql_exception	B22	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC39	Fail	Expected: remove file Actual: can't	B23	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC40	Fail	Expected: ban user Actual: can't	B24	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC41	Pass			12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC42	Pass			12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC43	Fail	Expected: change visibility Actual: can't	B25	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC44	Fail	Expected: remove generated Resume Actual: can't generate a resume.	B26	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC45	Fail	Expected: remove generated website Actual: can't generate a website.	B27	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri

TC46	Fail	Expected: modify generated resume Actual: can't generate a resume	B28	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC47	Fail	Expected: modify generated website Actual: can't generate a website	B29	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC48	Fail	Expected: export Faculty portfolio Actual: can't	B30	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri
TC49	Fail	Expected: export Admin portfolio Actual: no portfolio for admins.	B31	12 May 2024	Mosa Alshakhouri	Mosa Alshakhouri

Table 1:TC Execution Results

2.3.2. Bugs Report

Bug ID	Testcase ID	Detailed Description	Severity (High/Medium/low)	Date found	Submitter
B001	TC01	when clicking edit it resets your data before user changes anything	Medium	15 May 2024	yousuf alansary
B002	TC02	not implemented	Medium	15 May 2024	yousuf alansary
B003	TC03	not implemented	Medium	15 May 2024	yousuf alansary
B004	TC04	not printable but viewable in home page	Medium	15 May 2024	yousuf alansary
B005	TC05	can check publications but cant access the publication just able to view it exists	Medium	15 May 2024	yousuf alansary
B006	TC06	not implemented	Medium	15 May 2024	yousuf alansary
B007	TC07	not implemented	Medium	15 May 2024	yousuf alansary
B008	TC11	There is no option to allow the user to delete their account	High	17 May 2024	Abdulaziz Alyahya
B009	TC12	Users can't edit /delete publications created by them	High	17 May 2024	Abdulaziz Alyahya
B010	TC13	There is no option to allow the user to add or manage groups	Medium	17 May 2024	Abdulaziz Alyahya
B011	TC16	the system checks only for secure email format but no authentication method is applied	High	17 May 2024	Abdulaziz Alyahya
B012	TC17	There is no option to allow the admin to add or manage users and their permission	High	17 May 2024	Abdulaziz Alyahya
B013	TC18	it doesn't show the number of faculty members on the page	Low	17 May 2024	Abdulaziz Alyahya
B014	TC20	it doesn't show the IDs of faculty members on the page	Low	17 May 2024	Abdulaziz Alyahya
B015	TC21	it doesn't show the number of researchers on the page	Low	17 May 2024	Abdulaziz Alyahya
B017	TC23	When I click on the publication it does not show the ID researcher	Low	17 May 2024	Mahdi Alkhalaf
B018	TC26	means that feature has not develop yet	Medium	17 May 2024	Mahdi Alkhalaf
B019	TC27	means that feature has not develop yet	Medium	17 May 2024	Mahdi Alkhalaf
B020	TC31	means that feature has not develop yet	Medium	5/17/2024	Mahdi Alkhalaf

B021	TC32	means that feature has not develop yet	Medium	5/17/2024	Mahdi Alkhalaf
B022	TC34	When you click on the statistic for request portfolio, it will not show name of faculty	Low	5/17/2024	Mahdi Alkhalaf
B023	TC38	Tried to upload a pdf publication but could not due to uncaught mysqli_sql_exception	High	12 May 2024	Mosa Alshakhouri
B024	TC39	Tried to remove a file that is violating KSA's rules but could not.	Low	12 May 2024	Mosa Alshakhouri
B025	TC40	Tried to ban a user who is violating KSA's regulations but could not.	Low	12 May 2024	Mosa Alshakhouri
B026	TC43	Tried to change the visibility of the portfolio but could not.	Low	12 May 2024	Mosa Alshakhouri
B027	TC44	Tried to generate a resume then remove it but could not.	High	12 May 2024	Mosa Alshakhouri
B028	TC45	Tried to generate a website then remove it but could not.	High	12 May 2024	Mosa Alshakhouri
B029	TC46	Tried to generate a resume then modify it but could not.	High	12 May 2024	Mosa Alshakhouri
B030	TC47	Tried to generate a website then modify it but could not.	High	12 May 2024	Mosa Alshakhouri
B031	TC48	Tried to export faculty portfolio but could not.	Medium	12 May 2024	Mosa Alshakhouri
B032	TC49	Tried to export admin portfolio but could not due to it not existing.	Medium	12 May 2024	Mosa Alshakhouri

Table 2: List of Bugs

2.3.3. Bug Screenshots

B001:

Success! The bio has been changed

Faculty Information

Personal Info:

Photo: No file chosen

First name:

Last name:

Contact Info:

Email:

Phone No.:

Office Location:

Bio:

Academic Info:

Department:

Degree:

Years of Experience:

Area of Expertise:

Website:

B008:

FR Portfolio

Home My Portfolio +

Sign Out View Statistics

My Profile

AhMAD JAMAL

Bio:

Academic Information:

Department: ICS
Degree: Bachelor's
Experience Years:

Area of Expertise:

☒ Recent Publications

The Rise of CyberWarefare since 2006

Testing Methodology

Contact Information:

Email: aj@kfupm.edu.sa
Phone Number:
Office Location:
Personal website:

There is no option to delete the user profile

B009:

FR
Portfolio
Home: My Portfolio
Sign Out View Statistics

My Publications

Publication Type	Title	Author	Abstract	Publisher	Pages	Month	Year
Thesis	The Rise of CyberWarefare since 2006	Ahmed Jamal	This thesis discusses the reasons which made cyberwarfare better than traditional meduims				2013
Book	Testing Methodology	Ahmed Jamal	This book discuss the methodology and techniques done in software testing				2011

There is no option to delete or edit previous publications

Add new publication

B011:

FR
Portfolio

☐ remember me
Sign In
Sign Up View Statistics

Please include an '@' in the email address. 'value' is missing an '@'.

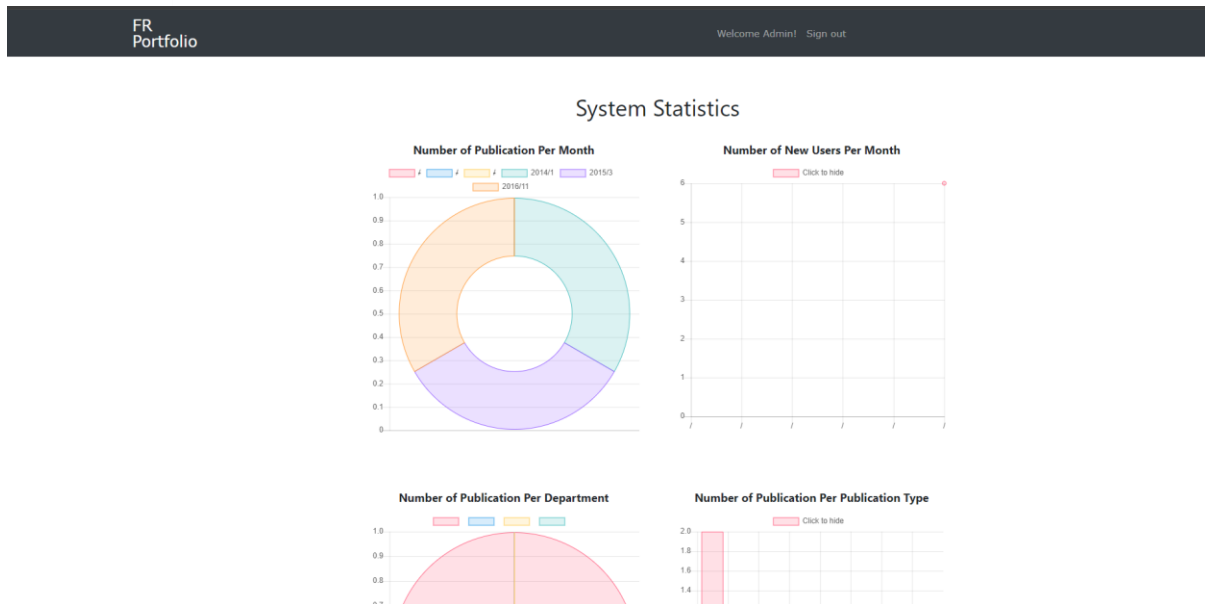
Welcome To Faculty Research Portfolio

Publication
Search

Number of Publication Per Month

Number of New Users Per Month

B012:

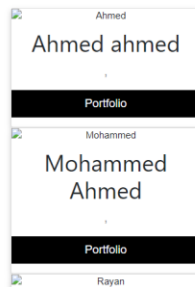


B013:

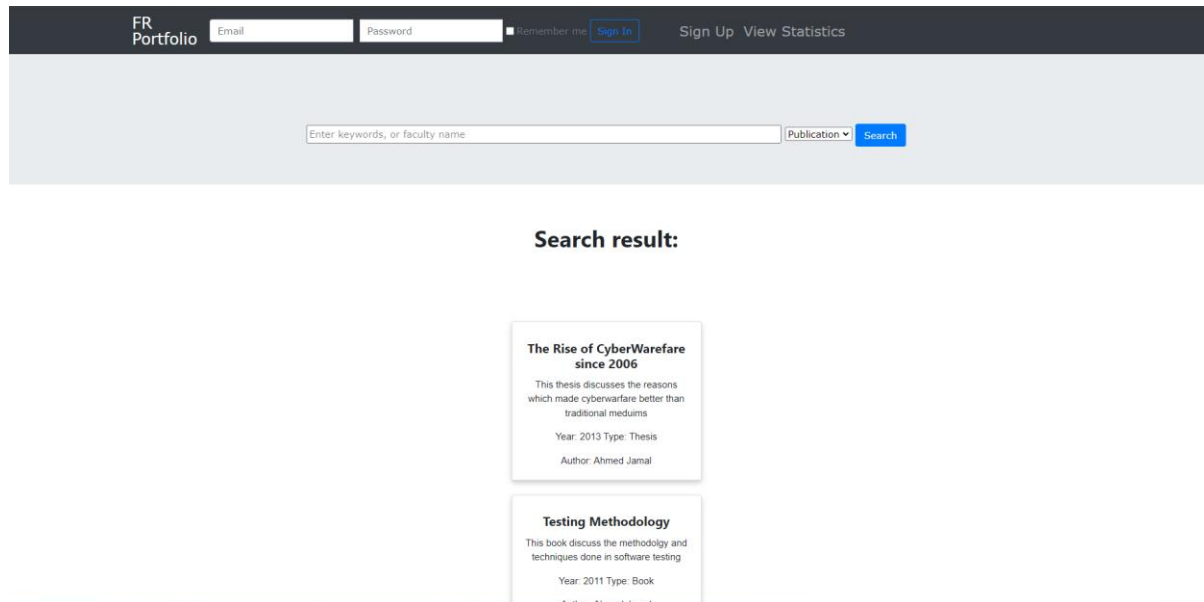
FR Portfolio ☐ Remember me [Sign In](#) [Sign Up](#) [View Statistics](#)

[Search](#)

Search result:



B014:



FR Portfolio ☐ Remember me [Sign In](#) [Sign Up](#) [View Statistics](#)

Search result:

The Rise of CyberWarefare since 2006

This thesis discusses the reasons which made cyberwarfare better than traditional meduims

Year: 2013 Type: Thesis

Author: Ahmed Jamal

Testing Methodology

This book discuss the methodology and techniques done in software testing

Year: 2011 Type: Book

Author: Ahmed Jamal

B017:



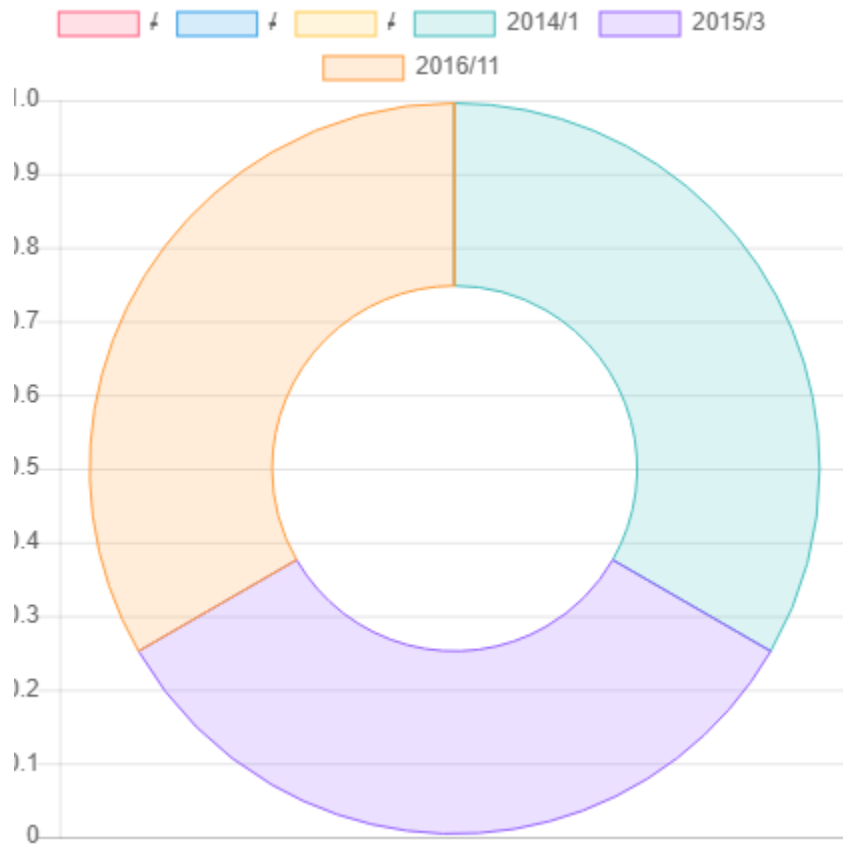
The Rise of CyberWarefare since 2006

This thesis discusses the reasons which made cyberwarfare better than traditional meduims

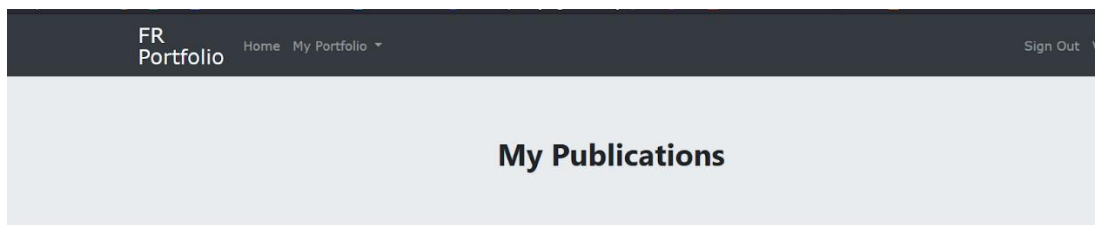
Year: 2013 Type: Thesis

Author: Ahmed Jamal

B022:



B023:



Fatal error: Uncaught mysqli_sql_exception: Column 'PublicationID' cannot be null in C:\xampp\htdocs\SWE326Project\Faculty\addPub.php:86 Stack trace: #0 C:\xampp\htdocs\SWE326Project\Faculty\addPub.php(86): mysqli_query(Object(mysqli), 'INSERT INTO `Pu...') #1 {main} thrown in C:\xampp\htdocs\SWE326Project\Faculty\addPub.php on line 86

3. Conclusion

After testing the website our team found out that the quality of the software is low. Many functionalities were not implemented, and the development team needs more time to develop the website in order to be fully functional and ready for deployment. However, there were some features that are working well. As for the setup for running the website, it was not as easy as we expected, and it will not be optimal for common users. The testing process was not easy, and it took some time to discover the bugs due to the large number of requirements.

Metrics and Effort

During our testing period, we documented and categorized the issues we encountered. Here are some key metrics that highlight the effort and findings of our testing team:

- Total Test Cases Executed: 49
- Number of Bugs Identified: 32
 - High: 9
 - Medium: 14
 - Low: 9
- Percentage of bugs over the total number of requirements $\approx 65.3\%$