A picture containing graphical user interface

Description automatically generated

A picture containing text, font, logo, graphics

Description automatically generated

**NBU**

Drupal environment

**&**

Website Assessment



**Presented to:**

جامعة الحدود الشمالية

**Prepared By:**

TAQNIYAT – EIM Department

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# Contents

[1 Contents 2](#_Toc175644441)

[2 Executive Summary 3](#_Toc175644442)

[3 Introduction 3](#_Toc175644443)

[4 Infrastructure Session 4](#_Toc175644444)

[4.1 Overview 4](#_Toc175644445)

[4.2 Assessment 4](#_Toc175644446)

[4.3 Recommendations 4](#_Toc175644447)

[5 Backend & Administrative Session 4](#_Toc175644448)

[5.1 Overview 4](#_Toc175644449)

[5.2 Assessment 4](#_Toc175644450)

[5.3 Recommendations 4](#_Toc175644451)

[6 Frontend Session 5](#_Toc175644452)

[6.1 Overview 5](#_Toc175644453)

[6.2 Assessment 5](#_Toc175644454)

[6.3 Recommendations 5](#_Toc175644455)

[7 UI/UX Session 5](#_Toc175644456)

[7.1 Overview 5](#_Toc175644457)

[7.2 Assessment 5](#_Toc175644458)

[7.3 Recommendations 5](#_Toc175644459)

[8 General Recommendation 6](#_Toc175644460)

[9 Assessment Overall Recommendations 6](#_Toc175644461)

# Executive Summary

# Introduction

This document presents the findings by Taqniyat during the assessment session for NBU. It provides a comprehensive analysis of key components within your infrastructure, with a specific focus on the **Database**, **SharePoint Farm**, **SharePoint Application**, and overall **Infrastructure**, also this evaluation extends to the codebase within your system, the document includes enhancements and recommended changes to be done on the code, with general comments to end up.

# Infrastructure Session

## Overview

Describe the current infrastructure setup (servers, hosting environment, databases, load balancing, security protocols, etc.).

## Assessment

Analyze the strengths, weaknesses, and scalability of the current infrastructure. Highlight any risks or issues identified, such as outdated hardware, software, or vulnerabilities.

## Recommendations

Suggest improvements, upgrades, or optimizations, including any changes to the architecture, cloud migration, or disaster recovery planning.

# Backend & Administrative Session

## Overview

Summarize the current backend architecture, including content management, custom modules, API integrations, and the administrative interface.

## Assessment

Evaluate the effectiveness of the backend in terms of performance, maintainability, security, and ease of use for administrators. Identify any issues such as bottlenecks, outdated code, or security gaps.

## Recommendations

Propose solutions for optimization, security enhancements, and better administrative workflows. Consider module updates, code refactoring, or implementing new administrative tools.

# Frontend Session

## Overview

Outline the current state of the website's frontend, including design, responsiveness, accessibility, and user interaction.

## Assessment

Assess the performance, loading speed, compatibility across devices, and adherence to web standards. Identify any design inconsistencies, performance issues, or accessibility concerns.

## Recommendations

Suggest improvements for speed, design consistency, and accessibility. Recommend using modern frontend technologies, optimizing media files, or redesigning certain elements for better user engagement.

# UI/UX Session

## Overview

Provide an overview of the user interface and user experience design, including navigation, content layout, and user journey.

## Assessment

Analyze the usability, intuitiveness, and overall experience from the user’s perspective. Identify pain points, confusing elements, or areas for improvement.

## Recommendations

Offer suggestions for enhancing user experience, such as redesigning navigation, improving content organization, or making the interface more user-friendly.

# General Recommendation

1. Create a thread to run a function in a parallel

# Assessment Overall Recommendations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Recommendation | Type | Importance | Urgency |
| Servers | All the servers should be restarted every month. | Enhancement | High | Not Urgent |
|  |  |  |  |  |
| SQL Database Server | Save the Databases (MDF & LDF) on separate drive by creating a two driver one for the MDF and second for LDF | Issue | High | Not Urgent |
| Enable and start SQL server agent to delete ASP.net session state. | Issue | High | Not Urgent |
|  |  |  |  |  |
| SharePoint Part | Install the latest cumulative update of SharePoint 2019 | Issue | High | Not Urgent |
| Finalize the pending SharePoint updates by run the SharePoint Configuration wizard | Error | High | Not Urgent |
| Remove any SharePoint services not being used | Issue | High | Not Urgent |
| Solve the issues related for the search service and schedule Incremental & Full Crawl | Error | High | Not Urgent |
| Enable the SharePoint variation since the Website contains two languages and variation not being used | Enhancement | Medium | Not Urgent |
|  |  |  |  |  |
| Website Source Code | Create a thread to run the functions in a parallel | Enhancement | High | Urgent |
| Add try-catch to all the function and save the issue on SharePoint list, Event viewer or Text file on the server | Issue | High | Urgent |
| The pager should be created using AJAX request and using the LINQ | Issue | High | Not Urgent |
| Remove declared array if statement or new instance of objects not used. | Issue | High | Urgent |
| Retrieving the items from a SharePoint list should be done using page number and page size. | Issue | High | Urgent |
| Rendering the faculties tabs should be implemented using AJAX and  upon click on each tab retrieve the content that related for each faculty | Issue | High | Urgent |
| Bind services in section “**EServices list**” should be improved since for-loop defined and iterate on a collection of objects without using the objects. | Issue | High | Urgent |