KOLEJ PROFESIONAL MARA BERANANG

DIPLOMA IN COMPUTER SCIENCE

COURSE NAME	:	**WEBSITE APPLICATION DEVELOPMENT**
COURSE CODE	:	**CSC2713**
ACADEMIC SESSION	:	**3 2023/2024**
TYPE OF ASSESSMENT	:	**Final Project**
DURATION	:	**26/01/2023 – 23/02/2023**

CLO 2: Build a dynamic website based on web framework (C3,PLO2)

INSTRUCTION TO CANDIDATES:

1. Late submissions after given due date will not be accepted.
2. Report should be written in using:

    Font type: Arial

    Size: 11 pts

    Line Spacing: 1.5

3. Upload your project in MS-Teams and submit report in hardcopy
4. Present your project

Personal Details	
Name	
I/D Number	
Class	[DCS 4A] [DCS 4B]
Lecturer	**PUAN NURHANNANIE**

Section / Question No.	Marks
1	/10
2	/7
3	/16
4	/12
5	/4
6	/2
7	/4
Total	**/55**

Scenario

A dynamic website is a type of website that generates webpages and content in real-time, typically in response to user interactions or inputs. It uses various technologies and server-side scripting languages to deliver content that can change dynamically based on user actions or data from external sources. This can be done with ease using Django's framework that support server-side scripting language. The possibilities are endless, and with Django's powerful features at your fingertips, you can create a truly dynamic and interconnected website for your business or personal use.

Imagine you are building a website for :

i. KPM Beranang Student Intervention Online System, where the system will allow lecturers, administration, and students to track the student problems and progress of intervention. OR

ii. KPM Beranang Vehicle Management Online System, where the system will allow the lecturers, administration, and students to book and track the maintenance of the vehicle; van and bus.

iii. KPM Beranang Student Release Management System, where the system will allow students to apply and track the records of applications, whereas mentor and administration will be able to track and update the application.

Requirement

Students need to develop website using Django framework. The website should have the following content and features:

i. Registration
ii. Post / Get/ Put / Delete Method (Database – minimum 3 tables)
iii. Login / Logout
iv. Search data

Tasks:

1. Describe the project overview. (Documentation)
   a. Website name
   b. Target audience/users
   c. Objective of the website.
   d. Website flow

2. Build a database with appropriate class(s) and attribute(s) for each class

3. Apply graphic (picture/image/video), form, and content to suit the website.

4. Apply Post, Get, Put and Delete methods for database operation.

5. Apply Django administrator site.

6. Produce a report and upload your Django project in Teams.

7. Demonstrate your website.

Assessment Rubrics:

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
1. Describe the project overview. (Documentation)	❑ Appropriate website name and is displayed in all pages.	❑ Catchy, distinctive and easy to recall and is displayed in all pages.				
	❑ Able to identify the target users for the website.	❑ Able to explain the target user accessibility or tasks for the website.				
	❑ At least 2 purposes of the website are clearly stated.	❑ At least 3 purposes of the website are stated with sufficient explanation.	❑ At least 5 purposes of the website are stated with clear explanation.			
	❑ Adequate website flow is explained.	❑ Website flow is well explained and aligned with some of the purposes stated.	❑ Website flow is well explained and aligned with all purposes stated.			

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
2. Build a database with appropriate class(s) and attribute(s) for each class	❑ At least 3 classes are created in models.py	❑ More than 3 classes are created in models.py				
	Apply the database in the website that include **one (1)** of the followings with appropriate: ❑ class name (1 class) ❑ attribute name for each class ❑ datatype for each attribute ❑ primary key for each class ❑ foreign key	Apply the database in the website that include **two (2)** of the followings with appropriate: ❑ class name (1 class) ❑ attribute name for each class ❑ datatype for each attribute ❑ primary key for each class ❑ foreign key	Apply the database in the website that include **three (3)** of the followings with appropriate: ❑ class name (2 classes) ❑ attribute name for each class ❑ datatype for each attribute ❑ primary key for each class ❑ foreign key	Apply the database in the website that include **four (4)** of the followings with appropriate: ❑ class name (3 class)es ❑ attribute name for each class ❑ datatype for each attribute ❑ primary key for each class ❑ foreign key	Apply the database in the website that include **all** of the followings in all created classes with appropriate: ❑ class name ❑ attribute name for each class ❑ datatype for each attribute ❑ primary key for each class ❑ foreign key	

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
3. Apply graphic (picture/image/video), form, and content to suit the website theme.	Website content should include **one (1)** the followings: ❑ Content is simple and to the point. ❑ Differences in type size and/or color are used well. ❑ Content is fresh, original, insightful ❑ Creative and logic ❑ Content is presented in a clear manner that is easy to follow.	Website content should include **two (2)** the followings: ❑ Content is simple and to the point. ❑ Differences in type size and/or color are used well. ❑ Content is fresh, original, insightful ❑ Creative and logic ❑ Content is presented in a clear manner that is easy to follow.	Website content should include **three (3)** the followings: ❑ Content is simple and to the point. ❑ Differences in type size and/or color are used well. ❑ Content is fresh, original, insightful ❑ Creative and logic ❑ Content is presented in a clear manner that is easy to follow.	Website content should include **four (4)** the followings: ❑ Content is simple and to the point. ❑ Differences in type size and/or color are used well. ❑ Content is fresh, original, insightful ❑ Creative and logic ❑ Content is presented in a clear manner that is easy to follow.	Website content should include **all** the followings: ❑ Content is simple and to the point. ❑ Differences in type size and/or color are used well. ❑ Content is fresh, original, insightful ❑ Creative and logic ❑ Content is presented in a clear manner that is easy to follow.	
	Website page layout should include **one (1)** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make	Website page layout should include **two (2)** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make	Website page layout should include **three (3)** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make	Website page layout should include **four (4)** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make	Website page layout should include **all** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make	

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
	navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	
	❑ Create **one (1)** form to allow user to fill up information.	❑ Create atleast **two (2)** forms to allow user to fill up information.	❑ Create atleast **three (3)** forms to allow user to fill up information.			
	❑ Provide appropriate end user signup OR login function to website.	❑ Login function is based on password fixed from coding.	❑ Login function is based on password checked from database.			

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
4. Apply Post, Get, Put and Delete methods for database operation.	❑ Apply at least **one (1) POST method in** database operation	❑ Apply at least **two (2) POST method in** database operation	❑ Apply more than **two (2) POST method in** database operation. ❑ All POST methods applied are appropriate.			
	❑ Apply at least **one (1) PUT method in** database operation	❑ Apply at least **two (2) PUT method in** database operation	❑ Apply more than **two (2) PUT method in** database operation. ❑ All PUT methods applied are appropriate.			
	❑ Apply at least **one (1) GET method in** database operation	❑ Apply at least **two (2) GET method in** database operation	❑ Apply more than **two (2) GET method in** database operation. ❑ All GET methods applied are appropriate.			

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
	❑ Apply at least **one (1) DELETE method in** database operation	❑ Apply at least **two (2) DELETE method in** database operation	❑ Apply more than **two (2) DELETE method in** database operation. ❑ All DELETE methods applied are appropriate.			
5. Apply Django administrator site.	❑ Apply at least **one (1)** web administrator authentication	❑ Appropriate **more than one** web administrator authentication applied.				
	❑ Only **one (1)** class assigned for web administrator.	❑ At least **two (2)** classes assigned for web administrator.				

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
6. Produce a report and upload your Django project in Teams.	Produce report that that comprises Task 1 and any one (1) of the followings: ❑ print screen of the website and coding of your system (*Copy and paste it in your document with correct format*) ❑ Upload complete dynamic website in Django Project in MS Teams.	Produce report that that comprises Task 1 and ALL of the followings: ❑ print screen of the website and coding of your system (*Copy and paste it in your document with correct format*) ❑ Upload complete dynamic website in Django Project in MS Teams.				
7. Demonstrate your website.	❑ Demonstration covers all major features of the website including either end user view OR administrator view. ❑ Application is partially functional.	❑ Demonstration covers all major features of the website including user view and administrator view. ❑ Website is fully functional.				

Task	Mark					Mark Obtained
	1	**2**	**3**	**4**	**5**	
	❑ Provide unclear explanation of the website flow.	❑ Provide clear explanation of the website flow.				
Total Marks Earned						/55
Percentage (%)						/40