KOLEJ PROFESIONAL MARA BERANANG

DIPLOMA IN COMPUTER SCIENCE

COURSE NAME	:	**WEBSITE APPLICATION DEVELOPMENT**
COURSE CODE	:	**CSC2713**
ACADEMIC SESSION	:	**2 2024/2025**
TYPE OF ASSESSMENT	:	**Final Project**
DURATION	:	**25/09/2024 – 18/10/2024**

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

Section / Question No.	Marks
1	/8
2	/7
3	/10
4	/26
5	/3
6	2
7	/4
Total	**/60**

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

Scenario

A dynamic website is a type of website that allows for real-time interaction and changes based on user inputs, preferences, or data from a server. For instance, when a user logs into an e-commerce site, the website dynamically updates to show personalized recommendations, user-specific information, and real-time data like promotional price.

To create dynamic websites efficiently, developers often use web frameworks. A web framework is a collection of tools, libraries, and conventions designed to streamline web development. These frameworks provide a foundation that simplifies tasks like routing, database management, user authentication, and rendering content.

In order to evaluate your skills and knowledge on developing a dynamic website using Django web framework, you are required to create a website of any of the following category listed below;

Module	Scope-dcs4b
MeetUp Clique	DCS / DIA / DBS / DLH
KPMB Event Listing	College
KPMB iConference	College
Ticketing Platform	College
KPMB Peer	College
KPMB i-Volunteer	College
FundMe (Fundraising Portal)	College
MyEdu Clinic (Academic Tuition Portal)	College
Tourism Event Portal	By State

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

    v.   You also need to implement the following sections in your layout.

          ❑ Website Heading and Navigation
          ❑ Signup Form
          ❑ Footer Section
          ❑ Copyright Section

Tasks:

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

2. Build a database with appropriate classes and attributes 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					Weightage	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.				1	/2
	❑ Able to identify the target users for the website.	❑ Able to explain the target user accessibility or tasks for the website.				1	/2
	❑ At least 3 purposes of the website are clearly stated.	❑ At least 5 purposes of the website are stated with sufficient explanation.				1	/2
	❑ Adequate website flow is explained.	❑ Website flow is well explained and aligned with all purposes stated.				1	/2

Task	Mark					Weightage	Mark Obtained
	1	2	3	4	5		
	❑ At least 3 classes are created in models.py	❑ More than 3 classes are created in models.py				1	/2
2. Build a database with appropriate class(s) and attribute(s) for each class	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	1	/5

Task	Mark					Weightage	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.	1	/5

Task	Mark					Weightage	Mark Obtained
	1	**2**	**3**	**4**	**5**		
	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 navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	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 navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	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 navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	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 navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	Website page layout should include **all** the followings: ❑ Page layout is creative and effective ❑ Layout are well organized ❑ Simple and powerful navigation structures make navigation feel intuitive. ❑ Graphic elements are used in imaginative and effective ways. ❑ The design/theme must be consistent in the whole website.	1	/5

Task	Mark					Weightage	Mark Obtained
	1	**2**	**3**	**4**	**5**		
4. Apply Post, Get, Put and Delete methods for database operation.	❑ Create **one (1)** form to allow user to fill up information.	❑ Create atleast **three (3)** forms to allow user to fill up information.				1	/2
	❑ Provide user signup OR login function to website.	❑ Login function is based on password checked from database.				2	/4
	❑ 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.			2	/6

Task	Mark					Weightage	Mark Obtained
	1	**2**	**3**	**4**	**5**		
/4	❑ Apply at least **one (1) PUT method in** database operation	❑ Apply at least **two (2) PUT method in** database operation and appropriate.				2	/4
/6	❑ 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 and appropriate.			2	/6
/4	❑ Apply at least **one (1) DELETE method in** database operation	❑ Apply at least **two (2) DELETE method in** database operation and appropriate.				2	/4
5. Apply Django administrator site.	❑ Apply at least **one (1)** web administrator authentication					1	/1

Task	Mark					Weightage	Mark Obtained
	1	**2**	**3**	**4**	**5**		
	❑ Only **one (1)** class assigned for web administrator.	❑ At more than **two (2)** classes assigned for web administrator.				1	/2
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.				1	/2

Task	Mark					Weightage	Mark Obtained
	1	**2**	**3**	**4**	**5**		
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.				1	/2
	❑ Provide unclear explanation of the website flow.	❑ Provide clear explanation of the website flow.				1	/2
Total Marks Earned							**/60**
Percentage (%)							**/40**