

UECS3294 ADVANCED WEB APPLICATION DEVELOPMENT

ASSIGNMENT

January 2021 Trimester

Course Outcomes.

In this assessment, you are assessed based on the following **course outcomes**:

CO1	Build interactive and database-driven web applications using a web application framework and model-view-controller (MVC) software architecture.
CO2	Build web applications with user authentication and authorization using cookies, session and role-based access control (RBAC).

Assessment Contribution

This assignment contributes **20%** to the overall assessment for this course.

Membership

This is a **group** assignment: maximum THREE (3) students per group.

Deadline

The deadline for this assignment is **Friday, 9th April 2021 before 12pm**.

Question.

Develop a web application/system using the *Laravel framework* based on a **title of your choice**. In choosing your title, you are required to ensure that your application/system meets the following requirements:

1. Your application must use the **MySQL** database system.
2. Your database should consist of the following tables:
 - a) **users** : This table is required for maintaining user records for authentication and authorization purposes.
 - b) A minimum of TWO (2) and a maximum of THREE (3) tables, **EXCLUDING** the abovementioned **users** table and any pivot tables. Each table must have at least a **relationship** with another.
3. Typical **CRUD** operations with **data validation** for inputs should be implemented for ALL models.
4. The use of **relational** queries and/or inserts/updates should be demonstrated.
5. **User authentication** is implemented.
6. The use of either **gates** and/or **policies** for user authorization should be demonstrated.
7. Create a **Photo Gallery**.

Registration of Title

Please register your chosen group members and title in the [Google Sheet](#).

Ensure that you are signed in to your UTAR Google Account (**@1utar.my**) before accessing the registration Google Sheet.

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Deliverables.

You should submit the followings as deliverables.

A **ZIP** archive named using your group number (e.g. **UECS3294_Assign_GroupNumber.zip**) and include the following in the archive

- 1) Archived softcopy of your entire Laravel project.
- 2) An archive of your database.
- 3) PDF document/report containing:
 - a. **Title and description** of your web application as well as a statement or table explaining or describing the **authorization logic**.
 - b. Sample View
 - i. Code listing of all database migrations
 - ii. Code listing of your route file
 - iii. Code listing of all controller classes
 - iv. Code listing of all Eloquent model classes.
- 4) Presentation slides PPT/PPTX/PDF.

Submission & Originality Policies

1. This assignment must be submitted completely by the abovementioned deadline.
2. All work must be original and if, taken from any works other than yours must be properly referenced.
3. Any plagiarized content will be penalized, including the award of zero marks

UECS3294 – ASSIGNMENT MARKING RUBRICS

Group Num: _____

Names: _____

Student ID: _____

PART		Criteria	Marks Alloted	Complete with no errors	Complete with minor errors	Mostly complete. Not more than 2 missing solution	Partially complete. More than 2 missing solution.	Demonstrated attempts to solve	No attempts	Marks Awarded
				1	0.8	0.6	0.4	0.2	0	
A	1	Database design, migrations, models & relationships	5							0
	2	CRUD Operations & input validation	10							0
	3	Relational queries and/or inserts/updates	10							0
	TOTAL		25							0
B	1	Explanation/description of authorization logic	10							0
	2	Implementation of user authentication	10							0
	3	Use of Gates and/or Policies	10							0
	4	Use of photo gallery	10							0
	5	Presentation	10							0
	TOTAL		50							0
GRAND TOTAL			75							0