UECS3294 ADVABCED WEB APPLICATION DEVELOPMENT

ASSIGNMENT

Jan 2018 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 15% to the overall assessment for this course with 5% contribution towards CO1 and 10% contribution towards CO2.

Membership

This is an **individual** assignment.

Deadline

The deadline for this assignment is Wednesday, April 11, 2018.

Question

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

Registration of Title

Please register your chosen title at https://goo.gl/forms/Ynpqj5k52EcS0ev23.

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

Deliverables

You should submit the following items in your report:

- 1. **Title** and **description** of your web application.
- 2. A statement explaining or describing your authorization logic.
- 3. Softcopy of your entire Laravel project. Kindly upload a ZIP archive of your Laravel project in your bitbucket.io account. Specify the URL to your ZIP file in your report.
- 4. Hardcopy printouts of the following program code:
 - a) Code listings of all database migrations.
 - b) Code listing of your **route** file.
 - c) Code listings of all **controller** classes.

- d) Code listings of all **Eloquent model** classes.
- e) Code listings of all **policy** classes.
- 5. Hardcopy printouts of sample screen output.

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.

Marks Allocation

No.	Course Outcome	Assessment Criteria	Marks
1	CO1	Database design & migrations	5
2	CO1	Models & relationships	5
3	CO1	CRUD Operations & input validation	10
4	CO1	Relational queries and/or inserts/updates	10
5	CO2	Explanation/description of authorization logic	15
6	CO2	Implementation of user authentication	15
7	CO2	Use of Gates and/or Policies	30
		TOTAL	90