UNIVERSITY OF LAY ADVENTISTS OF KIGALI

KIGALI CAMPUS

FACULTY OF COMPUTING AND INFORMATION SCIENCES

GROUP WORK

Course Title: *E-COMMERCE AND WEB APPLICATION*

Total Marks: 60

✓ Instructions:

- Work in groups of 3–5 students.
- Apply CSS for an improved user interface.
- Ensure proper form validation and database interaction.

Project Title: Vehicle Management System

Build a basic web application to manage vehicles for sale or rent.

Question 1: Add a New Vehicle (10 points)

a. Frontend Implementation (4 points)

Design an HTML form to add a new vehicle with the following fields:

- Vehicle Name
- Model
- Price
- Upload option for vehicle image

b. Backend Implementation (6 points)

Develop backend logic to store vehicle details and image file name in the database.

Question 2: View Vehicles or a Single Vehicle (10 points)

a. Frontend Implementation (4 points)

Create an HTML page that displays all vehicles in a list or card view.

Allow clicking on a vehicle to view more details.

b. Backend Implementation (6 points)

Develop backend logic to fetch all vehicles or details of a selected vehicle from the database.

Question 3: Update Vehicle Details (10 points)

a. Frontend Implementation (4 points)

Create an HTML form for editing a vehicle's details. Allow editing name, model, price, and image.

b. Backend Implementation (6 points)

Develop backend logic to update the selected vehicle's details in the database.

Question 4: Delete a Vehicle (10 points)

a. Frontend Implementation (4 points)

Add a "Delete" button on the vehicle details page to remove the selected vehicle.

b. Backend Implementation (6 points)

Implement backend logic to delete the vehicle from the database.

Question 5: Search Vehicles (10 points)

a. Frontend Implementation (4 points)

Add a search bar to filter vehicles by name or model.

b. Backend Implementation (6 points)

Implement search functionality that returns matching vehicles from the database.

Question 6: Conclusion (10 points)

a. Implementation Summary (10 points)

Summarize your implementation approach and roles in the group.

Submission Instructions

Submit ONE screen recording (5-10 mins) showing:

- 1. Each member name + registration number
- 2. Show how your system works:
 - Add a vehicle
 - View all vehicles
 - o View a single vehicle
 - o Edit a vehicle
 - o Delete a vehicle
 - Search a vehicle

Submit in one ZIP file on e-learning:

• The video

Submit: [a zipped file (video)]