Logo: Cardiff Metropolitain University

School of Technologies

### Assessment

### Brief

|  |  |
| --- | --- |
| Module Code | Module Title |
| CSE4005 | Database Design and Development |
| Academic Year | Semester |
| 2022/2024 | Semester 02 |
| Module Leader email | |
| ErangiP@icbtcampus.edu.lk | |

Content

[Assessment Details 2](#_Toc67665314)

[Submission Details 3](#_Toc67665315)

[Assessment Criteria 3](#_Toc67665316)

[Further Information 5](#_Toc67665317)

[Who can answer questions about my assessment? 5](#_Toc67665318)

[Referencing 5](#_Toc67665319)

[Submission problems 5](#_Toc67665320)

[Unfair academic practice 5](#_Toc67665321)

[How is my work graded? 6](#_Toc67665322)

# Assessment Detailsssessment Details

|  |  |  |
| --- | --- | --- |
| Assessment title | Abr. | Weighting |
| Database Management System for a Ride-Hailing Application | WRIT1 | 100% |
| Pass marks are 40% for undergraduate work and 50% for postgraduate work unless stated otherwise. | | |

|  |  |
| --- | --- |
| Task/assessment brief: | |
| Infor Pvt Ltd, a leading IT company in Sri Lanka, is planning to develop a new ride – hailing application.  The system needs to handle a large volume of data related to driver profiles, user accounts, ride information, and payment transactions.  Drivers can register with the app by providing their details including name, NIC(National Identification Card), phone number, vehicle tag number, vehicle type, and vehicle colour. Each driver is associated with only one vehicle.  User must create an account to use the app. The registration information required includes name, phone number, email address, username, password, and address. After registering, users can book rides. A single user may book multiple rides. The app tracks ride details such as pick-up location, drop-off location, ride date, and vehicle type. Based on the vehicle type, the app will send ride notifications to drivers.  Once a driver confirms a ride and arrives at the pick-up location, the ride begins. Each driver can confirm only one ride at a time. After the ride, payment information needs to be recorded, including payment type, amount, and date. Each ride can have only one payment associated with it.  Users can provide feedback on their ride experience. Reviews are categorized under the driver’s profile and include star rating, review description, and the reviewer’s username.  **You can add any functionality which will enhance the system and make the proposed solution more comprehensive.**  **Tasks**  Design the database with the constraint that the available technology is relational.   1. Explain what is data model, critically compare different data models and explain why older data models are being replaced by new data models. (10 Marks) (LO1) 2. Draw an entity relationship diagram for given scenario with proper standards. Identify important keys and represent different types of attributes and relationships. (20 Marks) (LO2) 3. Draw Relational Schemas. Effectively map conceptual data models with relational database schema according to the mapping algorithm. All the steps should be clearly mentioned. Normalize Schema up to 3NF. (Clearly show the steps) (15 Marks) (LO2) 4. Create the database using SQL server.   NOTE: Make sure to enter at least 15 records for each table. (25 Marks) (LO3)   1. Write SQL queries for below requirements.   Practical Implementation and Demonstration. (20 Marks) (LO3)   * List of details of all drivers. * List of all reviews of a specific driver. * List of ride details of a specific user. * List of ride details in between July and November for a particular driver. * Total revenue of each driver.  1. Provide the test plan, test strategy and proper test cases. (10 Marks) (LO4)   **Guidelines for the report format**  Paper - A4  Margins - 1.5” left, 1” right, 1” top and 1” bottom  Page numbers - bottom, right  Line spacing - 1.5  Word count - 3000  Font face - Times New Roman  Headings - 14pt, Bold  Normal - 12pt  Referencing and in-text citation should be done strictly using **Harvard Referencing System.** | |
| Word count (or equivalent): | 3000 |
| This a reflection of the effort required for the assessment. Word counts will normally include any text, tables, calculations, figures, subtitles and citations. Reference lists and contents of appendices are excluded from the word count. Contents of appendices are not usually considered when determining your final assessment grade. | |

# 

# Further Information urther Information

## Who can answer questions about my assessment?

Questions about the assessment should be directed to the staff member who has set the task/assessment brief. This will usually be the Module Leader. They will be happy to answer any queries you have.

Staff members can often provide feedback on an assignment plan but cannot review any drafts of your work prior to submission. The only exception to this rule is for Dissertation Supervisors to provide feedback on a draft of your dissertation.

## Referencing and independent learning

Please ensure you reference a range of credible sources, with due attention to the academic literature in the area. The time spent on research and reading from good quality sources will be reflected in the quality of your submitted work.

Remember that what you get out of university depends on what you put in. Your teaching sessions typically represent between 10% and 30% of the time you are expected to study for your degree. A 20-credit module represents 200 hours of study time. The rest of your time should be taken up by self-directed study.

Unless stated otherwise you must use the **HARVARD** referencing system. Further guidance on referencing can be found in the Study Smart area on Moodle and at [www.citethemrightonline.com](http://www.citethemrightonline.com) (use your university login details to access the site). Correct referencing is an easy way to improve your marks and essential in achieving higher grades on most assessments.

## Technical submission problems

It is strongly advised that you submit your work at least 24 hours before the deadline to allow time to resolve any last minute problems you might have. If you are having issues with IT or Turnitin you should contact the IT Helpdesk on (+44) 2920 417000. You may require evidence of the Helpdesk call if you are trying to demonstrate that a fault with Moodle or Turnitin was the cause of a late submission.

## Extensions and mitigating circumstances

Short extensions on assessment deadlines can be requested in specific circumstances. If you are encountering particular hardship which has been affecting your studies, then you may be able to apply for mitigating circumstances. This can give the teachers on your programme more scope to adapt the assessment requirements to support your needs. Extensions and mitigating circumstances policies and procedures are regularly updated. You should refer to your degree programme or school Moodle pages for information on extensions and mitigating circumstances.

## Unfair academic practice

Cardiff Met takes issues of unfair practice **extremely seriously.** The University has procedures and penalties for dealing with unfair academic practice. These are explained in full in the University's Unfair Practice regulations and procedures under [Volume 1, Section 8](https://www.cardiffmet.ac.uk/registry/academichandbook/Pages/Ah1_08.aspx) of the Academic Handbook. The Module Leader reserves the right to interview students regarding any aspect of their work submitted for assessment.

Types of Unfair Practice, include:

**Plagiarism,** which can be defined as using without acknowledgement another person’s words or ideas and submitting them for assessment as though it were one’s own work, for instance by copying, translating from one language to another or unacknowledged paraphrasing. Further examples include:

* Use of any quotation(s) from the published or unpublished work of other persons, whether published in textbooks, articles, the Web, or in any other format, where quotations have not been clearly identified as such by being placed in quotation marks and acknowledged.
* Use of another person’s words or ideas that have been slightly changed or paraphrased to make it look different from the original.
* Summarising another person’s ideas, judgments, diagrams, figures, or computer programmes without reference to that person in the text and the source in a bibliography/reference list.
* Use of assessment writing services, essay banks and/or any other similar agencies (NB. Students are commonly being blackmailed after using essay mills).
* Use of unacknowledged material downloaded from the Internet.
* Re-use of one’s own material except as authorised by your degree programme.

**Collusion**, which can be defined as when work that that has been undertaken with others is submitted and passed off as solely the work of one person. Modules will clearly identify where joint preparation and joint submission are permitted, in all other cases they are not.

**Fabrication of data**, making false claims to have carried out experiments, observations, interviews or other forms of data collection and analysis, or acting dishonestly in any other way.

## How is my work graded?

Assessment grading is subject to thorough quality control processes. You can view a summary of these processes on the [Assessment Explained Infographic](https://outlookuwicac.sharepoint.com/sites/QED/Shared%20Documents/Forms/Front%20Page.aspx?id=%2Fsites%2FQED%2FShared%20Documents%2Fstudent%20guide%20%2D%20Is%20my%20mark%20fair%2Epdf&parent=%2Fsites%2FQED%2FShared%20Documents&p=true&originalPath=aHR0cHM6Ly9vdXRsb29rdXdpY2FjLnNoYXJlcG9pbnQuY29tLzpiOi9zL1FFRC9FYzNrWVFRZUVIZEtyQ2JvX3RKbnIya0JvbUlpaUxJTm1QZWJVZ3ZUVWxqcTlRP3J0aW1lPXFLb08zblB3MkVn).

Grading of work at each level of Cardiff Met degree courses is benchmarked against a set of general requirements set out in [Volume 1, Section 4.3](https://www.cardiffmet.ac.uk/registry/academichandbook/Documents/AH1_04_03.pdf) of our Academic Handbook. A simplified version of these Grade Band Descriptors (GBDs) with short videos explaining some of the academic terminology used can be accessed via the [Facilitation of Learning](https://outlookuwicac.sharepoint.com/sites/QED/SitePages/Facilitation-of-Learning.aspx) resource page.

We would strongly recommend looking at the [Study Smart](https://learn.cardiffmet.ac.uk/course/view.php?id=1416) area of Moodle to find out more about assessments and key academic skills which can have a significant impact on your grades. Always check your work thoroughly before submission.

