

Assessment Cover Sheet

Assessment	Group Project		
Assessment	Uncontrolled	Group	Not must-pass
Due Date	21-05-2024	Course Code	IT8415
Course Title	Database Programming 2		
Internal Moderator's	Karim Ahmed		
External Examiner's			

Instructions:

1. This cover sheet must be completed (section in red below) and attached to your assessment before submission in hard copy/soft copy.
2. This assessment carries 100 marks and assessing CILO 1 and CILO 2.
3. The **use of generative AI tools is strictly prohibited**.
4. References consulted (if any) must be properly acknowledged and cited.
5. The assessment has a total of 11 pages.

Learner ID		Date	
Learner			
Programme	ICT8040/ICT8010		
Programme	Bachelor of Information and Communications Technology (Database System/ Programming)		
Lecturer's			

By submitting this assessment for marking, I affirm that this assessment is my own work.

Do not write beyond this line. For assessor use

	Learner	
Assessor's Name		
Marking Date		Maks

Comments:

Late Rule:

1. If an assessment is submitted late the maximum result the student/group can achieve is 60%.
2. The cut-off time for submitting an assessment will be 3 calendar days after the assessment is due. A student/Group submitting after 3 calendar days will get 0%.
3. Extensions request should be made 48 hours before the submission date, and for valid reasons only. ***You are only permitted one extension per subject per semester.***

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LEARNING OUTCOMES ASSESSED

The following learning outcomes will be assessed in this assessment:

Tasks / Learning Outcomes	Project
LO1 - Demonstrate critical knowledge in designing, developing, and testing data-driven, server-side applications.	✓
LO2 - Follow best practices, industry standards, professional ethics, diagram designing, using specialized programming and documentation conventions during the programming process.	✓

PROJECT INSTRUCTIONS & GUIDELINES

Due Dates: Tuesday, 21 May 2024 at 11:55 p.m.

Weighting: 35%

Assessment Type: Group Project- *consisting of max 5 members*

IMPORTANT INSTRUCTIONS

Project Marking Process

The marking will be based on the project functionality (**on the dedicated server**), not on the code, which means:

1. If the functionality is not working the student will get a zero for that section.
2. If the functionality is working, will review the codes for giving the marks.

Note: No project will be accepted with the local-host setting. Only Server submissions will be considered for marking.

Database

You will need to create your tables to use them for this project, you should use the MySQL database server provided on your dedicated servers.

- Class001 & Class 002: **20.126.5.244**
- Class 003 & Class 004: **108.142.248.238**

Note that all the tables for this project should have the prefix 'dbProj_'.

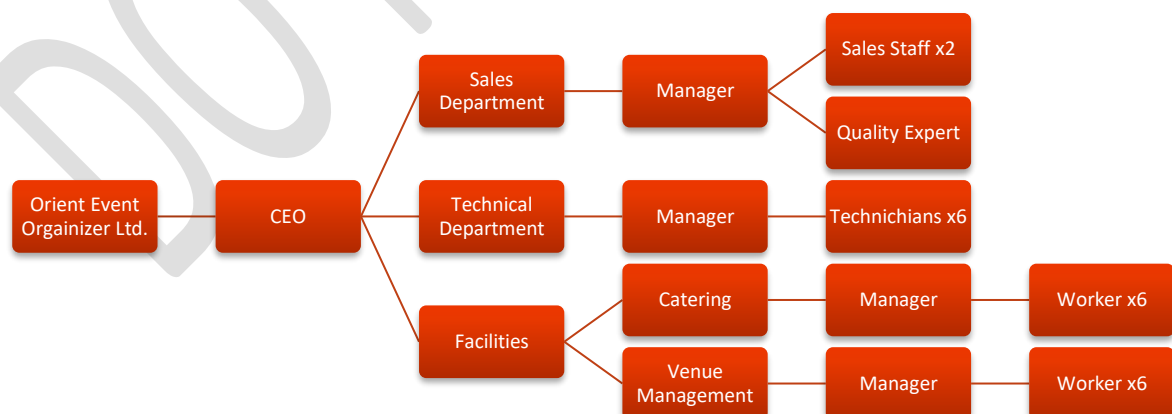
PROJECT DESCRIPTION

Online Event Management System Requirements.

Introduction of the Company:

This project is a case study about Orient Event Organizer Ltd (OEO), the company that provides organization of events and management of services that their clients may need for those events. It is a small-scale business which found its place on the market by organizing events and providing services for those events since 2010. The type of events handled by the company includes workshops, trainings, and seminars. The events are organized in the company's premises which include a fully equipped seminar hall of a capacity of 80 audiences, three small halls with the capacity of 30 audiences and one fully equipped lab with 40 desktop computers. They have different departments in the company like Sales Department, Technical Department, Facilities and Human Resource. Currently, all the details about the events and services are recorded in spreadsheets. To handle the growth of the company, the company needs a web-based solution for helping them to efficiently capture, store, process and retrieve data on clients, booking events, venue selection, event schedules, resource tracking, task tracking and the services which include rental of equipment needed for events, catering, and venue management. In addition to the specified features, the company needs a web Portal to allow their clients to book their event online.

The Company Organisational Chart



1. Functional Requirements

The brief list of requirements for a project is presented below. Students can extend the functionality of the project based on their understanding and discuss further with their teacher for better understanding.

- Client Portal for Booking an Event.
- Admin Portal for Administrative task like Manage data for Clients, Events, Halls, available resources.

1.1 Log In & Sign-Up: Potential Users of the Online Portal

The Online Portal will have 2 types of users with different functionalities:

- Client
- Administrator
- A login is not needed to search, view Hall details.
- Each user will have set of privileges which student can suggest based on reasonable judgment.
- To use the Online Portal all users, need to be Logged-In and Application will maintain the User's information in a session.

Log In & Sign-Up feature

Make sure Your Sign-Up and Login pages must check to ensure ***Data validation & Data verification** requirement. For example, data entry in mandatory fields, Password protection, username does not already exist, field length & datatypes etc.

**Apply JavaScript to handle data validation. Must use encryption method for password. (Mandatory).*

1.2 Royalty Points

System Should be capable of give royalty points to all clients as "Gold Client", "Silver Client", "Bronze Client" based on their successful events/booking of events.

Discount Criteria for Royalty Points

No. of Events	Client Status	Discount offered
More than 15 booked events	Golden Client	Discount 20%
More than 10 booked events	Silver Client	Discount 10%
More than 5 booked events	Bronze Client	Discount 5%

1.3 Searching for available Event Booking Slots

- When the Business Client wants to make a reservation the first step is to enter the preferred dates (Event can be 1 day, 1 weeklong or 15 days) for the event along with number of audiences attending the event.
- Client can select specific hall by searching the Hall/room name or Hall/room description*.
- Once the client entered the required information the list of available halls along with timing and rental details will display. The client can view some the picture of the Hall to get better idea about the orientation of the Hall.
- Rental details are based on Rental charge of hall x No of hours.
- In case the specific Hall or any other Hall/room is not available for given dates the system must display some recommendation for other time slots. At this stage client can re-enter search criteria to find alternate options.
- Once the Client get the best option based on preference, system will present a “Book an event Option” and Client can proceed with the reservation process.

**Note: Must apply engine-based Search on the Hall/Room Name, and event hall/room description.*

1.4 Booking an Event/ Creating a Reservation

- Once the client is ready to book an event the Booking/ Reservation page shows some picture of selected Hall along with hall description and rental details. The same page will show the date range and selected audience details so the client can confirm the details before proceeding further. If client want to make changes in either date range or other details of the event there must be an Update details option which will redirect to update page.
- If client is satisfied with reservation details, client can Proceed further by clicking Proceed Option to select catering or other services.
- If the Client does not wish to proceed, they can cancel and return to the main page.

1.5 Catering or Other Services Reservation:

- If the client chooses proceed option, they are presented with the screen which display Catering option which include “Breakfast”, “Lunch”, “Hot Beverages”, “Cold beverages” along with Menu and price for each option based on selected option must be display*.
- Catering services are optional and has additional charges. Client can skip this step.
- If the Client does not wish to proceed, they can cancel and return to the main page.

**Apply AJAX to load Menu based on selected Catering.*

1.6 Enter Personal/ Business details to Confirm Reservation:

- If the client wishes to proceed with reservation confirmation, Client should enter his details and/or company details to proceed with the reservation. System will display client/Business Personal details form. Email must be provided by the Client for further communication. (If user is already available and logged In in the system skip this step)
- At this stage the Client can still cancel and return to the main page.
- The Client is now required to go to the checkout page where he/she can view a summary of their reservation with the total cost.
- System should apply discount on total cost based on the status of client type* i.e. Gold, Silver, or Bronze.
- The Client now confirms the reservation. The reservation details are displayed. If the Client is satisfied with the reservation details, they can confirm and proceed to the payment page.
- On this page the Client enters the payment type, card details (number, expiry date, security number), the cardholders name and billing address.
- On confirmation of these details the user will be shown a summary screen and the system should also create and display a unique reservation code for the reservation send via valid email provided already.
- System will give Royalty point to the client which will accumulate after every event.

**Apply Procedure to handle following functionality.*

1.7 Amending Reservation Details

- If, after making a reservation, a client wishes to change their reservation details, the Client will be able to access their reservation details using the reservation number sent to them.
- Clients will be permitted to change their reservation details up to 2 days before they are actual date of event but amending the reservation details will incur a 5% charge on overall cost *.
- If the Client cancels the reservation the Hall reservation dates should update accordingly, and Hall must be available for next reservation.

**Apply Procedure to handle following functionality.*

1.8 Administration System

Admin Must be able to

- View all Halls/room details and Mange (add/Edit/Delete)

- View all Client details and Mange (add/Edit/Delete)
- View all Catering Menu details and Mange (add/Edit/Delete)

2. Non-Functional Requirements

- **Navigation** – the system should apply a consistent and logical means of navigating the application.
- **Pagination**- Apply the pagination for the pages wherever the listing could be more than 10.
- **Look and feel** - the application should have a professional look and feel and should be user-friendly. It should use appropriate windows controls such as drop-down lists, radio buttons and so on wherever possible.
- **Validation of input** – it is important that data is validated before being added to the database to ensure system integrity. Any invalid input should result in an appropriate error message being displayed.
- **Extra printing**- Script Error printing or extra printing in the output may lead to penalty.

Note: it is important that your database contains sufficient data to allow it to be tested thoroughly so ensure that you have created an effective test set.

3. Database Requirements

- At least one Procedure should be used and called in your web application.
- ERD of the system using any available tool.
- Minimum 2 users should be created with correct privileges and roles i.e. Administrator, Client.
- Test Data: A minimum of 10 rows are required for testing purposes in all main tables such as reservations, Halls etc.

4. Test Plan Requirements

A Test Plan is a document that will include screenshots of all pages of your Web application. Your Test plan must include a Step-by-Step Guide on How to use your application. The test plan can be submitted in word or PDF format.

5. Advanced Level Features

10 marks in your project have been dedicated to the advanced-level features and will be awarded to the groups that use 2 of the below listed features in their web application.

Following is the list :

- AJAX (other than mandatory part)
- Advance level Web Application Design
- Localization
- Triggers
- Prepared statements
- JQuery
- Others

DELIVERABLES – What you need to hand in

You should submit a zip file on Moodle consisting of:

- A word document that will include
 - A URL for your completed application
 - Accounts to be used for testing.
 - Extra features used
 - Screen Shot of ERD
- Net beans project files and folders
- SQL Code for tables, and procedures.
- A test plan outlining how to test your system to demonstrate the functional requirements.

MARKING SCHEME

Section	Topic	Marks
1	Application functionality <ul style="list-style-type: none">Functional RequirementsNon-Functional Requirements	65
2	Database <ul style="list-style-type: none">ERD (using any Available tool)ProcedureIndex Searching & Full text SearchingDB Security techniques used	20
3	Advance Features AJAX(other than mandatory), Design, Localization etc.	10
4	Test Plan	5
Total		100