

INFO 4335 CASE STUDY 1

Instructions

The case study is designed to evaluate your problem-solving skills and teamwork toward the given case. There is no one fixed or definite solution for the case, it depends on how you and your team will solve the problem based on the given requirements and development criteria. In order to submit your case study, you are required to do the following tasks:

a. Development

- i. Division of work must be distributed fairly among the group members. Group leader is responsible for group work distribution.
- ii. Division of work must **NOT** base on group member ability or request, everyone in a group must work on the same difficulty level (Input, Class/Object and Output).
- iii. Group leader must find a way to make sure everyone will be assigned to the same tasks with the same difficulty level. If division of tasks or functions is **NOT** even, group leader is allowed to assign extra functions which are not stated in the requirements.
- iv. Every group member is responsible for the assigned tasks. Group leader has the right to issue **3 warning emails** (cc the email to me for notification) to any unresponsive group member. If there is still no response, just ignore and proceed with what you have for the presentation.
- v. Group leaders are required to fill in his or her team members **work progress (2 weeks progress)** based on work contribution and commitment through **progress report document**. I will check the progress report document with the group leaders each week.
- vi. **Failure to fill in or present** the progress report document each week will result in **marks reduction** for your case study. Remember, even though you are working in a group you will be evaluated individually.

b. Submission

- a. Code implementation must be submitted through **GitHub repository**, which all group members are added to the repository as the **contributors**.

INFO 4335 CASE STUDY 1

- b. **Only group leader** is allowed to use and submit his or her GitHub repository URL as submission for the group on iTaleem.
 - c. Each group is responsible to edit **README.md** file and include the following details:
 - i. *Group Name.*
 - ii. *Group Member Details (Name & Matric No).*
 - iii. *The assigned tasks for each group member.*
 - iv. *Brief Description of the case study.*
 - d. Insert your **name and matric no** at the **comment of the code** that you have developed according to what you have been assigned.
 - e. Include any **outstanding sources** that enhance your understanding of the given Case Study.
 - f. **In class presentation**, with all group members take turn to present their assigned tasks or functions. Maximum duration of the presentation is **10 minutes**.
 - g. **Deadlines for submission:**
 - i. GitHub case study repository **URL** on the **21/11/2023 before 11.30 pm through iTaleem and present the completed case study on the 23/11/2023 in class.**
- c. Evaluation**
- a. Your evaluation will be based on your individual work which has been assigned to you by your group leader. This includes:
 - i. *Development contribution toward completion of the case study (code implementation & Problem solving).*
 - ii. *Progress Report Document (2 weeks progress).*
 - iii. *Peer evaluation (teamwork & project delegation).*
 - iv. *Presentation (demo your completed work or functions/tasks).*
 - b. **Bonus marks** will be given to any group with the **highest level of teamwork**, which every group member understand the overall case study implementation and functions/tasks assigned to each group member (code implementation).

INFO 4335 CASE STUDY 1

- c. Case study evaluation is final and there will be **NO** do over or request for second submission or presentation.
- d. Your **final marks** for the case study will be based on peer-evaluation, which means everyone in a group will receive different marks based on how well you contribute to your group. Thus, I **strongly recommend** that you have constant communication with your group leader and your group members.

d. Questions and Answers

- a. If you have any questions regarding the case study, use the provided **online forum** on iTaleem or **case study channel** on Microsoft Teams.
- b. Everyone is encouraged to answer any of the posted questions or help others in the online forum or case study channel.
- c. The **key success factors** for your case study are **planning, time management** and **support** from each group member. Thus, use these factors to complete your case study.

INFO 4335 CASE STUDY 1

List of Case Studies

No.	Title & Requirements	Development Criteria
1.	<p>A Venue Reservation System</p> <p><i>Requirements:</i></p> <ol style="list-style-type: none"> 1. A building having 30 venues for conferences and seminars. 2. Date and time are crucial to avoid clashes for multiple seminars in the same venue, date and time. 3. First comes, first served basis. 4. Only available venues are allowed to reserve. 5. The venues are operating from 8am until 11pm. 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time
No.	Title & Requirements	Development Criteria
2.	<p>An Event Management System</p> <p><i>Requirements:</i></p> <ol style="list-style-type: none"> 1. It contains 30/31 days based on the month of the year. 2. Each event is a full day event. 3. Date and time are crucial to avoid clashes for multiple seminars in the same venue, date and time. 4. First comes, first served basis. 5. The event is operating from 8am until 5pm. 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time
No.	Title & Requirements	Development Criteria
3.	<p>A Parcel Management System</p> <p><i>Requirements:</i></p> <ol style="list-style-type: none"> 1. It contains 30 empty slots for storage. 2. Each slot can only store any item for 2 days only. 3. Any uncollected parcel will be returned to sender after 2 days. 4. Item is stored based on house number. 5. Each storage can only store a maximum of 5 parcels. 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time

INFO 4335 CASE STUDY 1

No.	Title & Requirements	Development Criteria
4.	<p style="text-align: center;">A Course Scheduling System</p> <p>Requirements:</p> <ol style="list-style-type: none"> 1. It contains 25 empty slots for storage from Monday to Friday excluding lunch time. 2. Each slot can only store a subject. 3. The class starts at 8.30 AM and ends at 4.50 PM. The duration for each slot is an hour and 20 minutes. 4. Item is stored based on course code. 5. Each course should have 2 meetings in a week. 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time
No.	Title & Requirements	Development Criteria
5.	<p style="text-align: center;">A Point of Sale System</p> <p>Requirements:</p> <ol style="list-style-type: none"> 1. It contains unlimited slots for storage. 2. Each row will store number of items, product description, product price, product quantity and product total. 3. The total or final amount should be displayed at the end of the last product. 4. Any discount item will also reflect to the product total. 5. The payable amount is subjected to 6% of GST. 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time
No.	Title & Requirements	Development Criteria
6.	<p style="text-align: center;">A Payroll Management System</p> <p>Requirements:</p> <ol style="list-style-type: none"> 1. It contains 22 empty slots for storage. 2. Each slot can only store number of working hours. 3. The payable rate is RM 6 per hour and weekend is not counted. 4. If the employee arrives late to work, the start time will be based on the time they arrive. 5. The employee is subjected to 11% contribution to employee provident fund (EPF). 	Dart Scripting and HTML List or Map or Local Storage from (dart.html) library, Date Time