Mini Project III: Check List and Team Member Contribution Form

Team Number: Team 5
Project Name: OurSpace

	Criteria	WEIGHT	DESCRIPTION	EXCELLENT (10 PTS) ALL	SATISFACTORY (7 PTS) MOST	BORDERLINE (4 PTS) SOME	INSUFFICIENT (1 PT) NONE	SCORE * WEIGHT
INTERESTING Project Idea								
1.	**Project Idea:** *Project Topic, Description & Requirements*	10%	The project idea shows the following: □ interesting, challenging, creative and reflecting a real-world scenario. □ The project description is clearly identified. □ Application, data requirements, data constraints and business rules are clearly defined, realistic and well-research. □ Important usage scenarios and queries are properly defined: ○ Important insert, update, delete operations and transactions (minimum 10 operations each); ○ Identifying important data inquiries and reports (minimum 20 inquiries or reports);					
DB DESIGN and DEVELOPMENT								
2.	**Conceptual and Logical Design:** *Appropriateness and accuracy of Design*	35%	The conceptual design (ER model) has the following: □ 100% accuracy □ Capture all data requirements explained in the proposal □ Easy to understand with a nice diagram layout □ Follow proper naming convention for the entity names, attribute names, relationship names.					

			The logical design (relational schema, data dictionary and SQL scripts for table creation and queries) has the following: □ Schema and Data dictionary is accurate (corresponding to the conceptual design) □ Properly define data types for all attributes (with careful domain analysis) □ Properly define the PKs for all tables □ Properly define the FKs for all tables □ Properly define all integrity constraints, and business rules, as defined in the Project Proposal The design is tested with practical, sample data.					
3.	**Implementation & Demonstration (Individually evaluated)**	35%	□ The implemented operations, transactions and queries completely fulfils the project requirements (set at the proposal stage), is practical and useful in a real-world scenario. □ The implementation is well demonstrated. It is interesting and effective in conveying ideas. □ Selected usage scenarios and queries are correctly written in SQL statements and are tested.					
PRESENTATION								
4.	**Presentation & Communication (Individually evaluated)** *The oral presentation does not exceed the time allotment. It is tight, focused, and clearly explains the project.*	20%	□ Oral presentation keeps to the time limit and is focused. □ Main ideas are expressed clearly and convincingly. □ Q&A session is well managed and questions can be properly addressed.					

Work Distribution and Contribution

Task	Kaung Nyo Lwin	Cassandra Chang	Truong Vuong	Aymen Zubair Qureshi
1. Project Proposal: *Project Topic, Description & Requirements*	Project Description Data Operations Inquiries Report	Project Description Data Operation Inquiries Report	Project Overview Business Rules Query Development Report	Project Description Business Rules inquiries Report
2. Conceptual and Logical Design	Brainstormed the conceptual design Created the refactoring script with each single label. Created the Mock data script for the whole graph. Delivered data population script.	Created the ER Diagram. Brainstormed the conceptual design and which nodes and relationships that should be considered for the data model. Also helped in refactoring the nodes and relationships.	Suggested modeling queried connection as relationship between nodes. Recommended revising the diagram to better reflect these relationships.	Helped design the graph model by figuring out the nodes and their respective relationships. Also helped decide which details to keep inside each item making the data well-organized and easy to search.
3. Final Presentation	Uploaded the screenshots of Queries and the conceptual diagram. Implemented all proposed transactions and reports.	Uploaded the screenshots queries and ER diagram. Implemented all proposed transactions and reports.	Uploaded the screenshots of transactions, queries & reports. Exporting the final Database.	Implemented all proposed transactions and queries. Uploaded the screenshots of the codes, tabular results and some of the graph results for each query and transactions.

For each data operation/query, specify its type regarding the syntactic dimension and semantic dimension as well as the members who implement it.

Data Operation/Query	Query Type : Syntactic Dimension		Query Type : Semantic Dimension		Implementer
	I/U/D?	BR/JOIN/GROUP?	OTP?	BP/BT/CA/PA/REC	
1. New owners and customers can register their profile before listing their spaces or booking the spaces.	I		OTP		Kaung Nyo Lwin

2. Customers can book listed spaces	I/U		OTP		Kaung Nyo Lwin
3. Customers can pay the charges for the booked spaces.	U		OTP		Kaung Nyo Lwin
4. Retrieve the most spending customers based on their rental activities		GROUP		CA	Kaung Nyo Lwin
5. Generate a revenue report based on monthly detailed rental transactions.		GROUP		BP	Kaung Nyo Lwin
6. Generate a report to see the most busy days of the weeks		GROUP		BT/BP	Kaung Nyo Lwin
7. Generate a report that shows number of bookings, spending amount, total fee and number of listed spaces by defined price ranges		GROUP		BT/BP	Kaung Nyo Lwin
8. Retrieve a list of available spaces based on the user's information such as history of booking, and preferred price range and filtered by location		JOIN/GROUP		REC	Kaung Nyo Lwin
9. Feedback Submission-To insert feedback from a user for a space	I		OTP		Cassandra Chang
10. Rental rate adjustment-To update with the new rental rates for a space	U		OTP		Cassandra Chang
11. User Profile Updated-To update with the revised information of the User	U		OTP		Cassandra Chang

12. Report tells us who the highest spender is for a particular space		BR		CA/BP	Cassandra Chang
13. Fetches all the bookings made by the user		BR		CA	Cassandra Chang
14. Shows the revenue generated by each space of an owner		BR/GROUP		BT/BP	Cassandra Chang
15.Report shows all space of a particular user that has not been booked for over a month		BR		PA/BP	Cassandra Chang
16. Identify listings with high cancellation counts and update if the owners should be given a warning before flagging them.		GROUP		CA/BT	Cassandra Chang
17. Adding a new space to the database	I		OTP		Aymen Zubair Qureshi
18. Identifying the most popular spaces based on booking frequency.		BR		PA/REC	Aymen Zubair Qureshi
19.Updating start and end times of a specific booking	U	GROUP		BP	Aymen Zubair Qureshi
20. Deleting specific entry feedback from database	D		OTP		Aymen Zubair Qureshi
21. Retrieving feedback details for a specific customer		BR		CA	Aymen Zubair Qureshi
22.Counting the number of bookings for each space to analyze booking frequency.		GROUP		BP	Aymen Zubair Qureshi
23.Retrieving recently listed spaces with details like name, owner and the date it was listed		GROUP		PA	Aymen Zubair Qureshi

24. Retrieving the most popular booking time slots.		GROUP		BT	Aymen Zubair Qureshi
25. Update the status of a space for maintenance	U		OPT		Truong Vuong
26. Permanently remove a space	D		OPT		Truong Vuong
27. Updating the number of facilities	U		OPT		Truong Vuong
28. Retrieve customer retention metrics and segmentation		GROUP		CA	Truong Vuong
29. Retrieve total system fee trends by month		GROUP		BP	Truong Vuong
30. Retrieve seasonal booking trends and owner revenue analysis		GROUP		BT	Truong Vuong
31. Retrieve customer feedback sentiment classification		JOIN/GROUP		CA	Truong Vuong
32. Retrieve space demand and performance insights		JOIN/GROUP		BP/REC	Truong Vuong

Remark:

Types of SQL Statement: Syntactic Dimension

- (I) Insert, (U) Update, (D) Delete
- Retrieval
  - (BR) Basic Retrieval
  - (JOIN) Join Query / Nested or Subquery
  - (GROUP) Aggregate Query

Types of SQL Statement: Semantics Dimension

- (OPT) Basic Operation/Transaction Support
- Data Intelligence and Customer Insight Support
  - (BP) Business Performance Analysis
  - (BT) Basic Trend Analysis
  - (CA) Customer Analysis
  - (PA) Product Analysis
  - (REC) Suggestion or Recommendation of Products / Services to Users using history data