# Mini Project III: Check List and Team Member Contribution Form

| **Team Number: Team 5**  **Project Name: OurSpace** | | | | | | | | |
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|  | **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 |
| 1. Customers can book listed spaces | I/U |  | OTP |  | Kaung Nyo Lwin |
| 1. Customers can pay the charges for the booked spaces. | U |  | OTP |  | Kaung Nyo Lwin |
| 1. Retrieve the most spending customers based on their rental activities |  | GROUP |  | CA | Kaung Nyo Lwin |
| 1. 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 |
| --- | --- |