Project Scope Documentation

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| Project Name | CSCI 3432 Group Project – Pink Paradise Plateau Apartments |
| Project Team | * Team Leader and Customer Advocate: Jenna Lovett * DB Application Developers: ~~Kirk Alexander~~ and Troy Purvis * DBA, Server and Configuration Management: ~~Dallas Martin~~ * QA/Test, Security, and Tech Support: Tyler Hodzen |
| Project Narrative | We will be creating a mock database for an apartment complex. This data base will contain dummy data sourced from online repositories. This database will be devised of relatable data, including resident, vehicle, employee, ~~maintenance~~, invoice, ~~department~~, event, pet, lease, and apartment unit information. Each team member will be responsible for gathering sample data throughout the project, building the database from the ground up (see page below). Each member will have a specific role (as listed above) but will also gain experience by sharing roles with all team members. |
| Project Requirements | 1. Create a GUI Mockup 2. Perform a fitness test (assuming model has sufficient info)    1. Trace each question on the model    2. Add more information on second iteration    3. Trace all transactions and select critical one or two 3. Live Tests    1. Prepare a small set of test data    2. Run the SQL queries on the project deliverables    3. Prepare additional exploratory questions and experiment    4. Enrich the model on third iteration 4. Test and Improve    1. Generate volume tests    2. Conduct performance testing    3. Denormalize if necessary on fourth iteration 5. Develop app to update DB    1. Conduct usability testing    2. Specify improvements for next release on fifth iteration |

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| Team Member Name | Roles & Responsibilities |
| Jenna Lovett | Responsible for creating Residents table and Pets table, including columns within both tables. Responsible for gathering sample data pertaining to residents (ie. First names, Last names, apartment numbers, etc.). Responsible for testing small sets of data from these tables to ensure proper functionality. Responsible for ensuring data from Residents and Pets tables relates to other tables (ie. Resident\_ID from Residents table works with Resident\_ID(fk) from Vehicles table). Responsible for reviewing relevant tables (Residents and Pets) on the DB model/schema. Responsible for ensuring each team member completes their required duties and following up with Dr. J on a regular basis. Responsible for reviewing and curating project documentation, such as scope. Responsible for building his/her portion of the GUI that relates to updating his/her tables. Responsible for creating 10 queries/questions. |
| Tyler Hodzen | Responsible for creating Employees table and Maintenance table, including columns within both tables. Responsible for gathering sample data pertaining to employees/maintenance (ie. First names, Last names, department numbers, etc.). Responsible for testing small sets of data from these tables to ensure proper functionality. Responsible for ensuring data from Employees and Maintenance tables relates to other tables. Responsible for reviewing relevant tables (Employees and Maintenance) on the DB model/schema. Responsible for assisting each team member with security questions and technical support. Responsible for building his/her portion of the GUI that relates to updating his/her tables. Responsible for creating 10 queries/questions. |
| ~~Dallas Martin~~ | ~~Responsible for creating Invoices table and Departments table, including columns within both tables. Responsible for gathering sample data pertaining to invoices/departments (ie. invoiceamount, payment\_date, etc.). Responsible for testing small sets of data from these tables to ensure proper functionality. Responsible for ensuring data from Invoices and Departments tables relates to other tables. Responsible for reviewing relevant tables (Invoices and Departments) on the DB model/schema. Responsible for assisting each team member with server configuration and management. Responsible for building his/her portion of the GUI that relates to updating his/her tables. Responsible for creating 10 queries/questions.~~ |
| Troy Purvis | Responsible for creating Vehicles table and Events table, including columns within both tables. Responsible for gathering sample data pertaining to vehicles/events (ie. License\_plate, event\_date, etc.). Responsible for testing small sets of data from these tables to ensure proper functionality. Responsible for ensuring data assigned tables relates to other tables. Responsible for reviewing relevant tables (Events and Vehicles) on the DB model/schema. Responsible for assisting each team member with application development, particularly backend. Responsible for building his/her portion of the GUI that relates to updating his/her tables. Responsible for creating 10 queries/questions. |
| ~~Kirk Alexander~~ | ~~Responsible for creating Leases table and Apartment Units table, including columns within both tables. Responsible for gathering sample data pertaining to leases/units (ie. unit\_number, sign\_date, etc.). Responsible for testing small sets of data from these tables to ensure proper functionality. Responsible for ensuring data assigned tables relates to other tables. Responsible for reviewing relevant tables (leases and units) on the DB model/schema. Responsible for assisting each team member with application development. Responsible for building his/her portion of the GUI that relates to updating his/her tables. Responsible for creating 10 queries/questions.~~ |
| UPDATED 10/31 | Kirk and Dallas dropped the course. However, we still need to cover essential tables that were assigned to these two group members. These tables include the Apartments table, which is the defining table for this project. |

Project Timeline

Week 2&3

* Finalized group/team with corresponding team members

Week 4

* Drafted and submitted scope statement, which includes project narrative and member responsibilities

Week 5

* Drafted and submitted 10 queries per member and approved by Dr. J

Week 6

* Created GUI MockUps for Residents, Vehicles, and Employees tables

Week 9

* Created and submitted prototypes (POCs) that were connected to our database using Visual Studio/C#/SQL Server

Week 10

* Created a draft data model with 6 tables

Week 11

* Reviewed initial draft of data model in IDEF1X and created a detailed logical model with Entities, Relationships, Attributes in Erwin

Week 12

* Created new database script based off of Week 11’s progress and filled with test data (including RI: cascade, restrict, set null)

Week 13

* Loaded initial test DB into SQL Server and experimented with relationships and RI, and all schema
* Application planning documented, transactions analyzed, and security and physical parameters assessed
* Revised relevant queries

Week 14

* GUI completed for application – key transactions tested

Week 15

* Report and presentation completed and application effectiveness demonstrated

Week 16

* Oral Exam given over project