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|  | **CSCI/ISAT B321**  **Database Driven Application Development**  **Fall 2024**  **Project Contributions by Team Member** |

**Purpose:**

Document the contributions of each team member over the course of the project.

**Members and their Contact Information**

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| **Member** | **Email** | **Text** |
| Ian Bickford | bickfori@email.uscb.edu | (978) 895-9569 |
| Shaun Poole | scpoole@email.uscb.edu | (843) 816-2068 |
| Roddey Sims | rdsims@uscb.edu | (843) 338-2121 |

**Overall**

Relative Contribution of each member over the course of the entire project

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| **Member** | **Contribution** | **Total Hours** |
| Ian Bickford | 30 % | 26 |
| Shaun Poole | 40 % | 29 |
| Roddey Sims | 30 % | 22 |

**Data Design (i.e., ERD Creation & Revisions)**

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| **Member** | **Contribution** | **Hours** | **Components** |
| Ian Bickford | 40 % | 5 | Attribute Identification, 1NF, 2NF, 3NF, ERD design, additional data clarifications, continual ERD revisions and finalization. |
| Shaun Poole | 30 % | 3 | Attribute Identification, 1NF, 2NF, 3NF, ERD design. |
| Roddey Sims | 30 % | 3 | Attribute Identification, 1NF, 2NF, 3NF, ERD design. |

**Create & Populate Script: Entity Creation & Population (i.e., Table, Constraints, Insert Statements, etc.)**

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| **Member** | **Contribution** | **Hours** | **Components** |
| Ian Bickford | 80 % | 8 | Creation and population of all tables based on ERD. Additional constraints identified and included. Mock data creation, insert statements generated. Population of tables. Revised script based off front end needs. |
| Shaun Poole | 10 % | 3 | Communicated front end needs to be revised on the back end. Proofread and tested create & populate script. Created mock data not used in final version. |
| Roddey Sims | 10 % | 5 | Communicated front end needs to be revised on the back end. Proofread and tested create & populate script. Created mock data not used in final version. |

**Stored Procedures Script:**

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| **Member** | **Contribution** | **Hours** | **Components** |
| Ian Bickford | 10 % | 2 | Helped write stored procedures in conjunction with the needs of the front end in a limited capacity where needed. Proofread stored procedures to ensure error free execution. |
| Shaun Poole | 10 % | 2 | Communicated needs from the front end that would need to be created as stored procedures. Proofread and tested stored procedures for front end use cases. |
| Roddey Sims | 80 % | 7 | Created all stored procedures needed for front end access to the back end. Communicated with front end for features needed to be implemented as stored procedures. |

**Windows Form: Front-End Development**

Note: include here any Views created to support your queries

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| **Member** | **Contribution** | **Hours** | **Components** |
| Ian Bickford | 10 % | 5 | Helped in a limited capacity with logic and script controlling front end. Helped with front-end design GUI. |
| Shaun Poole | 80 % | 20 | Designed front-end with input from team members, wrote most of the logic surrounding the front end, added connection to back-end server functionality |
| Roddey Sims | 10 % | 5 | Intermediary between the needs of the front-end with back end via stored procedures. Made design choices that would help front-end development. Helped with front-end design GUI. |

**Presentation Preparation & Documentation**

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| **Member** | **Contribution** | **Hours** | **Components** |
| Ian Bickford | 35 % | 6 | Creation of documentation files, wrote and finalized the documents. |
| Shaun Poole | 32 % | 1 | Provided written list of contributions made as well as assumptions made. |
| Roddey Sims | 33 % | 2 | Provided written list of contributions made as well as assumptions made. Assisted in writing documents where needed. |

* We decided to make a deliberate decision for work division for this project in order to meet requirements and deadlines in the most efficient manner given the team size. Due to us having the luxury of 3 team members, as well as full trust and confidence in each member’s ability, the decision was made to split the project workload among our greatest strengths.
* Ian was mainly tasked with creating the load and populate script as well as the mock data to be implemented into the back end. Additionally, he had a heavy hand in the ERD design and finalization. Finally, Ian also implemented design constraints into the tables to validate data coming into the back end.
* Roddey was tasked with creating all the required stored procedures that would make changes on the back end in coordination with the front-end needs. As such, he was the intermediary between the needs for the back end and the front end. Roddey served to help wherever additional help was needed for back end and front-end design. He also had a heavy hand in the ERD design.
* Shaun was tasked with the front-end design and implementation. He was instrumental to the success of the team by creating the front-end, pushing requirements to make the seamless operation of the front end in coordination with the backend.

**Tools Used:**

* GitBash – used in conjunction with BitBucket for version control and file sharing
* BitBucket -- used for version control and file sharing
* Microsoft Visual Studio – used for creation and design of the front-end application.
* SQL Server Management Studio – used for back-end server development
* Microsoft Azure – used to host cloud-based server
* Microsoft Word – used to write supporting documentation.
* Microsoft Co-Pilot – used to create “joke” logo for mock university, used as our logo in the forms app.

Additional Resources:

* How to update a database with a stored procedure.

<https://www.homeandlearn.co.uk/extras/databases/updating-a-database-with-a-stored-procedure.html>

* How to create a stored procedure to insert new data into a table.

<https://stackoverflow.com/questions/20544752/create-a-stored-procedure-to-insert-new-data-into-a-table>