CSCE 315 - 501

Organizational Statement

Ben Beadle, Amanda Cofsky, and David Turner

## Section One

For this project, our team consists of Ben Beadle, David Turner, and Amanda Cofsky. Amanda has been chosen as our team leader, and she will help orchestrate the project duties and keep the project on track. David will be in charge of the bug reports sent from the other team using our database, and fixing any errors found. Ben will be sending bug reports to the other team when needed with any errors found in their API. We have divided the work evenly, so each of us has an equal part of coding to do. We worked together to develop a plan on how to appropriately approach the problem that has been given to us, and we plan on meeting during each lab time to discuss any problems we are facing and the progress we have made. We also are using systems such as Google Docs and TortoiseSVN to communicate and share files. We have a file in Google Docs where we have assigned ourselves duties that we feel we can complete and are marking it when completed, and we are using TortoiseSVN to share our program files.

We decided to have a team leader to facilitate an environment where we will continue to be productive. It is often easy for team members to get distracted, and having a team leader to watch for signs of distraction will help us stay on track. Since David will be more responsible for the database (as explained in section 2), he will be more apt at handling the bugs, and since Ben will be focusing on the application more (also explained in section 2), he will be finding the bugs in the other team's code more often.While Amanda is the team leader, she will also be responsible in completing parts of the coding project along side David and Ben. Our planned meetings twice a week during lab time will be helpful because we have busy schedules outside of class and also because it is an excellent time to ask for help from TAs and PTs. In addition, sharing documentation files through Google Docs is useful for editing files simultaneously from multiple locations, and sharing program files through TortoiseSVN will enable version history and allow easier updating of code between team members.

## Section Two

We have divided the project up appropriately to maximize efficiency and to hopefully complete the project checkpoints ahead of time in case of unforeseen problems. During the beginning steps, everyone will be working on the API. Overall, David will be working on most of the API implementation while Ben slowly transitions into the development of the credit card transaction application. This will be done once the team feels Ben's efforts can be transitioned away from the API. Amanda will be helping with both applications, providing assistance where needed.

David will be working on the database more than the application because he has strengths in several areas involved including parsing and has experience from previous projects. Ben is more focused on the application part of the project. He has experience in using SQL queries to get information, so working with another team's database and generating SQL statements is a perfect fit. He will use the API Specification given by the other team to develop a credit card application. Since Amanda is more rounded, she will be working equally in both parts. She is balanced in general database and application development but does not have specific experience in SQL.

We have identified the following major implementation issues:

1. Querying in general will be the most difficult section of the API to implement since it involves a myriad of query possibilities. We will try to handle most problems by limiting the complexity of the queries. We will also explicitly state what queries will work.
2. Implementing the FROM statement using two tables will also be difficult in bringing multiple tables together. The best implementation is to force them to choose how the tables will be joined.
3. Parsing all input from the user including the CREATE, UPDATE, DELETE, and SELECT statements will be difficult. Going back to number one, there are lots of possibilities. Again, explicitly stating the syntax of query will help in simplifying this issue.
4. The updating and deleting of the tuples will require careful implementation to ensure the accurateness of the API.
5. Implementing a logic parser with the three valued logic system is a new experience.

The following deadlines are rough estimates and goals of when we would like to have parts of the project completed. We are hoping for earlier goals than the project due dates to allow leeway in case of unforeseen problems. Here are our rough deadlines and explanations:

| **Date** | **Explanation** |
|---|---|
| 2/3/2012 | 50% of API specification completed. |
| 2/6/2012 | 100% of API specification completed. |

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| 2/8/2012 | The initial release of the API database functionality. |
| 2/8/2012 | Ben starts to migrate to application development, also beginning the application documentation. |
| 2/14/2012 | Final release of the API database functionality. |
| 2/14/2012 | Amanda transitions to helping mainly Ben with the application while David finishes the API. |
| 2/20/2012 | David transitions to the application development when the API is complete. |
| 2/23/2012 | The application should be complete. The documentation for the application should also be complete. |
| 2/27/2012 | The final group and individual reports completed. |