Document 1a

The general purpose of this application is to allow users to buy and sell used cars. The functionality of the application will primarily focus on advanced database searching, including the ability to search through cars while filtering by attributes such as make, model, year, price, etc. Additionally, the user will be able to list a car for sale, edit the listing, and remove it in the eventuality the car is sold.

This functionality will be implemented using a custom CLI, which will display relevant information and allow the user to interface with the search & listing features. This CLI will be written in a yet-to-be-determined language, with the backend using a Kaggle dataset loaded into a MySQL server for data storage and processing.

Document 1b

The work plan our group has laid out follows the general guidelines given in project documentation. Each team member is responsible for a different area of the project: Meg Alapati is in charge of ER design, Shwap Ishraq is in charge of the client application, and Connor Barker is in charge of data mining. As the instructions note, a team member isn't solely responsible for all the tasks that fall under their 'jurisdiction', but instead is in charge of coordinating those tasks & making sure they're completed correctly & on time.

As far as a system for distributing tasks, we have a weekly meeting set in which we go over the work done in the last week & collectively agree on which tasks need to be done yet. So far, this has been implemented using a Trello board to create, size, assign, and track tickets.

Document 1c

The scope of the project is quite thorough. The fullstack nature of the application means that we are responsible for the frontend & backend, as well as the coordination between the two. The project doesn't include data gathering, but the data mining aspect provides an additional layer of complexity, as preparing the backend will no doubt require a fair amount of preprocessing before the data can even be inserted for searching.

The most important time constraint of the project is of course the final deadline, but as the timeline has been mostly broken down into 1-week segments, the time constraints consistently involve incremental work on the application to meet minor deadlines leading up to the final submission. This initially entails the analysis phase (beginning with this series of documents), and then progresses into design, where the

client-side and server-side portions of the application will be developed. Finally, the data mining phase takes place, ultimately leading into project deployment. With little variation, the time constraints for these phases will follow the 1-week system, with tasks being due before Sunday meetings.