We used a text-based python script user interface to implement our system. The entire system was built using a python interface and utilizing a SQL alchemy library to interact with the database in SQLite. The three of us worked efficiently together as a team and communicated a lot while working on different phases of the project from the schema diagram, to making the DDL for the database, to making a .py file through sqlalchemy that creates the database and inserts simple example, and to finally making the text-based python script user interface. Additionally, we utilized Chat-GPT to help us with most of our code, which helped us complete the project more efficiently. We gave Chat our DDL and asked it to write functions for us that would allow for all the functionality we wanted for our project. Most of the prompts we submitted required little to no manual intervention or back and forth with the AI client. For the most part, things were seamless because Chat knew what kind of schema we were working with.

To be specific, chat helped us improve and debug the many functions we created to make the interface such as creating and editing a user profile, friends list features, and adding games to the game library. For example, chat helped us improve and debug the function for adding games to the library, by helping us fix our code to cooperate with the database structure that we implemented earlier. Additionally, chat helped us improve and debug our user menu in our interface by fixing our features that we had for accepting a friend request and messaging other users. Overall, utilizing chat helped us achieve the functionality we were envisioning in our interface that mimics the “backloggd” platform and allows for functionality in adding games to your library, writing reviews on games, making a friends list in the platform and being able to message other users. It also taught us how we can efficiently utilize AI in software development environemnts.

AI Prompt Appendix:

format this ddl using sqlalchemy: {ddl generated from our schema diagram on lucidchart}

Here is our ddl : {ddl generated from our schema diagram on lucidchart}

Create functions that allow users to create reviews, game lists, add games to lists, send/receive messages, and be able to access all of these by using the username as a search term.

Using the database we generated, create a function that lets a user:{this type of prompt was used to generate login, add user, display library, add game to library, view messages, edit account settings, etc. functions)

replicate the functionality of the following code but with a GUI in python: {code from main.py + menu\_function.py}