Final Project Report

**Team Member Roles**

Trevin Rhoda (trodda07@uab.edu): Built the frontend of everything and created the HTML files and assisted in JavaScript side of things as well as aid in debugging the frontend and backend problems we ran into.

Connor Gallagher (connorg@uab.edu): Built the backend of the project made the database that we are using. Build a lot of the front end and made the functionality of everything work properly

Ethan Soukhamneut (esouk@uab.edu): Built the CSS side of things and made everything look more appealing as well as assisted in integrating bootstrap JavaScript side of things and aid in debugging the frontend

**Introduction**

The purpose of this project is to create a forum for any and all topics to be discussed in any matter whether that is a friendly debate or just conversations about a specific topic. An example would be anime people can select what anime they want to talk about and if there is a thread then they can hop on and post a question or join an already existing thread about said anime.

**Technologies**

For the front end the technologies that we used were HTML, Bootstrap CSS, and Bootstrap JavaScript. We chose these for the front end because we thought it would be best for the forum we are trying to make. Bootstrap was Used as it was the most convenient in that it has preintegrated js and css, thus a forum that looks reasonably presentable could be made without much effort at all.

For the backend we chose to use flask and flask\_SQLAlchemy using sqlite we decided to use these since it would be easier to create a data base through this then the others we have used. We chose this framework and database due to the fact that we had all worked on it in the labs and it was a relational database, which we have come to understand is better for forums.

**Results**

We chose to exclude the more advanced initial features from the forum that we had initially speculated on due both to time constraints and the desire to focus on improving the features of the forum. The forum could be used as is, or modified into whatever purpose desired

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**Discussions/Future Works**

This forum could use a lot of polish in the front end, and needs security work before being deployed, but is a useful base for any future forum project.

**References**

Documentation that was broadly referenced used but not precisely copied

https://getbootstrap.com/docs/5.2/getting-started/introduction/

https://flask-sqlalchemy.palletsprojects.com/en/2.x/

https://www.sqlalchemy.org/

https://www.sqlite.org/docs.html

if sqlite3.dll import error is present

https://www.sqlite.org/download.html

https://stackoverflow.com/questions/54876404/unable-to-import-sqlite3-using-anaconda-python