Advanced Programming. Idea proposal

Group members: Nurlybai Beksultan IT-2207 and Nagashybai Mukhtar IT-2205

Name of the project: Book recommendation system

Problem:

I enjoy reading books, and it's a hobby of mine. While I often delve into the fantasy genre, I occasionally seek out good representations of other genres to broaden my reading experience. But sometimes I face difficulty finding books that truly interest me. That's why we decided to create book recommendation system to solve this problem.

Description of the program:

We will develop a website where users can view other users' favorite books and books they would recommend. Our MLP model takes a user's ID and predicts which books a user might like by analyzing user ratings for different books. The website then displays the results of the query.

Available solutions:

There are 2 websites where this task was performed:

https://gilberttanner.com/blog/building-a-book-recommendation-system-usingkeras/

https://medium.com/@hamza.emra/introduction-to-recommendation-systems-with-tensorflow-recommenders-a116e5e5a940

Dataset for DL: We consider that goodreads.com is a good choice to get dataset.

Tech stack:

- Tensorflow
- Sklearn
- Numpy and Pandas
- Flask