

CS:4400:0001 - Database systems
Project description version 1

1. Description of project

The platform to be built will serve as a channel between students and tutors. They will be able to set their availability to arrange personalized services by utilizing the database. Also, textbooks will be rented to students, and they will be able to find the cheapest and fastest renting or buying options using the database.

2. Requirements (business purpose, problems trying to solve, what questions will we answer)

Business Purpose:

- To build a platform for textbook rental and sales, as well as online tutoring.
- Tutors are hired and paid hourly
- Revenue comes from selling/renting books and students paying membership fees to get tutoring, or advertising

Problems to solve:

- High cost of textbooks
- Students being not able to get extra help for their courses

Questions to Answer:

- what are the most popular subjects
- who are the most popular tutors
- what time intervals are tutors most needed
- what time intervals have excess of students/tutors
- what are the most popular textbooks
- how long should each appointment time last

3. Assumptions

- One tutor/student uses one account only
- Tutoring limited to only practical subjects (cannot help with field work, lab procedures, etc.)
- All hired tutors are professional enough to answer any on-topic question the project will not go bankrupt

4. Scope (what data will be captured)

- All Users:
Personal, contact, address, and billing information, Degree level, Academic information availability, language preferences
- Students only:
Subjects that need help with
- TextBooks:
Stocking information
Demand, supply, pricing
shipping information

5. Design approach (high level logical groups and relations)

For all users, login (email) will be used as key user(userName, userType, personalInfo, address and billing, language, ...), textbook(name, ISBN, author, edition, price, stockAmount),... and other tables are under construction