Senior project proposal: tExchange

tExchange is a cross platform application created with the intention of de-centralizing the textbook market. It is designed so that users will be able to autonomously sell their used textbooks at a price of their choosing. tExchange will enable users to actively compete with more traditional services such as campus bookstores and online vendors when buying or selling textbooks.

Each user will have a profile specifying which school they attend, what textbooks they are selling or buying, and some sort of user-moderated metric representing the history of textbooks they have traded on the site. Users will be able to communicate with other users via an in-app messenger.

tExchange is designed with the notion that in the long run it is less expensive to buy a textbook and sell it to a peer instead of selling it back to a vendor or renting the book. While the obsolescence of a textbook is inevitable, this service will help ensure that every textbook 's maximum utility is expended before it becomes out-of-date.

A user will begin their search by entering the ISBN, title, or author's name of the textbook. tExchange will then return all the books at the user's school with the given credential and who is selling them. tExchange orders the list of textbooks by price so that the user can find the cheapest option for their class.

tExchange is written primarily to be used by students. It is implemented with modularity and easy of access in mind so it may be effectively deployed on any college or university campus as an independent entity of the institution.