

reBook



A LOCAL BOOK SWAPPING HUB

- Textbooks are expensive!
- You probably have a lot of them that you don't use.
- ...and so does everyone else.
- Meet and trade. Fast and free. Everyone wins.

Core Features

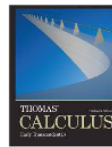


Welcome, userA (15)

Hubs Books Trades Users History Profile

- Tracks your owned books and needed books, automatically finding trade opportunities.
- Sets up trades between people on campus when they are already there.
- Multi-party swaps make more trades possible.
- No money allowed, just books for other books.
- This combination of features is unique.

Owned books



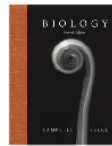
Thomas Calculus



University Physics



Computer Systems



Biology



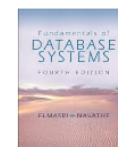
Chemistry



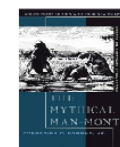
Vistas: Spanish

Add Book

Needed books



Database Systems



Mythical Man Month



Compilers Principles

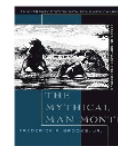


Discrete Math

Add Book

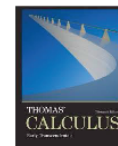
Trades

Want to trade userB:



Mythical Man Month

for:



Thomas Calculus

at:



The Hub

from 9:30 am - 1:30 pm?

Set It Up!

Tech



- **Pitfalls:**

- 1) Multi-party trades may be computationally expensive without careful attention to the algorithm.
- 2) Need to generate a lot of live data to test major functionality. Ruby gems help here.
- 3) Large group of developers. Need to devise an initial workflow to manage collaboration.

- **Data:**

- User information (Name, location, schedules).
- Book inventories (Want, need, conditions, value).
- Hub data (Name, locations, maintainer).
- Proposed and completed trades (Who, what, when, where).
- Will use a third party API for raw book information, based on ISBN (Name, description, image, edition).

- **Proposed stack:**

- Back end: Ruby on Rails
- DBMS: PostgreSQL
- Front end: Traditional web (HTML, CSS, JavaScript, JQuery)
- Mobile: Potential mobile app port to Android via PhoneGap, which makes such a thing much easier.

- **Experience:**

- Andy Fu (HTML, CSS, JQuery, SQL)
- Alex (Ruby on Rails, Database design, SQL)
- Yu-Cheng Chen (HTML, CSS, JavaScript)
- Possible needs: More Rails experience, JSON APIs, automated web application testing, graphic design.