

HofTAPS



By

Awab Abedin, Robbie Bernstein, Thomas Catania, Sanjit Menon, James Nastasi, Marcus Wiesenhart

The Problem

Price:

- Textbooks are expensive.
- Only used for one semester and collects dust after.
- Not worth the price relative to the amount of use.



Accessibility:

- Exact type of required textbook may be out of stock.
- Finding a textbook that is out of date may become unreasonable.
- Not having access to the textbook can impede course progress.



Other Solutions/Background

Amazon

- Popular solution for buying and selling textbooks.
- Can buy books new and used.
- Pricing can be inconsistent; new books are expensive.

eBay

- Popular site for purchasing used textbooks.
- Prices are often fair; Bidding options and flat prices are available.
- Listings are inconsistent; they may not have the required textbook.



Our Solutions

A Platform Students Can Rely On

- A haven for students to buy books at a reasonable price
- Competitive marketplace Secure the bag!
- Only textbooks get exchanged, not passwords or data

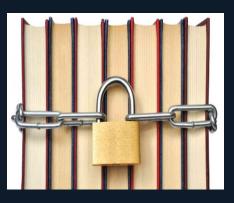
Designed to save time and reduce effort

- Minimalist Design
- Quick Access: No complex menus

Sustainability

Save the planet - one overpriced textbook at a time!







Project Goals

Develop intuitive textbook exchange platform

- Have a easy to understand User Interface
- Enable easy searches with sorting and filtering
- Facilitate fast and efficient communication between buyers and sellers
- Have a record of previous transactions
- Use the Google Book API To pull information about the book
- Have textbooks/listings, users, and notifications stored on a database
- Remove textbooks/listings after the a purchase

What do we need?

Google API

Friebase database Visual Studio

Order/Browsing/Selling history

A way to add and remove booking Isitings to a system

Forgot Passwords

Search Filter (Price, condition, subject)

Account Settings

Contact us email

Description of Item

Ability to upload image

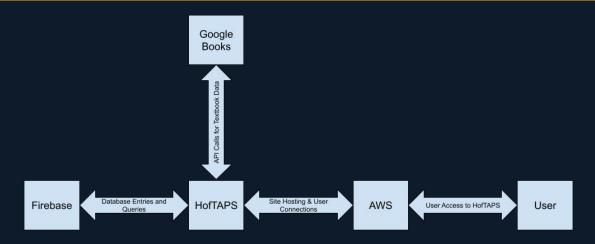
Verification links

Notification system

Database of Currently listed/ pending sales/sold/removed

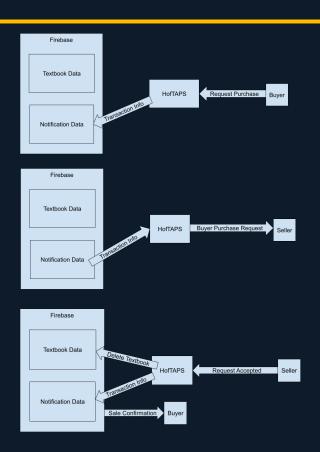
Wishlist

Project Design



- Main Components: HofTAPS Source, Firebase, Google Books, AWS, User
- All communication between user, database, and API are handled through our application
- Tools include Firebase, Google Books, and AWS

Methods



- User requests book, seller accepts, textbook removed
- Requests are sent over in-site notifications
- Sellers accept/decline sales over notifications
- Once a seller accepts, the textbook is removed from Firebase

Implementation

F12: Breakpoints

Testina

F18: Cross-Platform Supp

Project Phases: Database
 Integration, Authentication, API
 Integration, Account/Information,
 Listings, Notifications, Testing

 After each phase completion we would integrate, debug, improve, and then update the product

 Issues Faced: Firebase data sync bugs during testing, Version control merge conflicts, Time management with class deadlines



Apr 7 - 9

Apr 10 - 14

Apr 15 - 28

Testing

- Testing Strategy: Manual Testing
- Testing Methods: Regression
 Testing, Integration testing
 (important), Black-box/White-box,
 Unit Testing
- Testing data: Dummy user's,
 Dummy textbook listings, etc
- Test Results: Cores are functional and flow well; Easy to use interface (minimal bugs)



We preserved old versions of HofTAPS/Utilized Github Branches in case of testing failure

Risks and Scope Changes

Original Scope How Scope Changed High user-to-user interaction Focused on core functionality Users could place bids and give ratings Accept/Reject offer system, User Wishlist Email and platform integration Real-time notification system User gets notified via application and email Inbox integration and real-time updates Textbook listing based off API User personalization School-themed GUI Professional/simplistic GUI

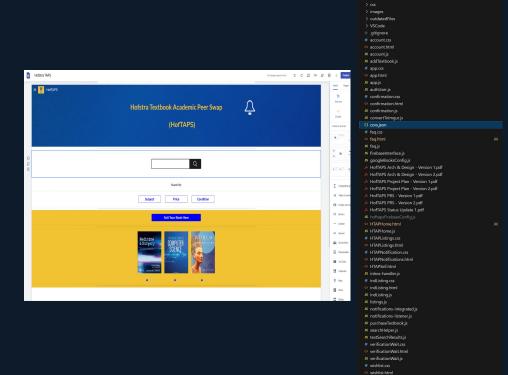
What We Did

- Robbie: Database & Integration
- Thomas: Authentication & Retrieving/Manipulating User Data
- Sanjit: Notifications & API
- James: Front End & Styling
- Awab: Faq Page
- Marcus: Testing



Our Team Experience

- Meeting multiple times a week.
- Reviewed the week's code every
 Tuesday and Thursday
- We used GitHub , VSCode,
 Firebase, AWS, Google Book API
- Languages we used: HTML, CSS,
 JavaScript
- We had 9 Versions.
- Clear vision from the beginning



> bootstrap-5.3.3-dis

Conclusion

- This project went smoothly and with no major issues.
- Learned:
 - How to store and edit data on a database
 - How to connect to an API
 - How to use GitHub
 - Working in a team
 - How to deploy a website
 - Connecting front end and back end
 - Integrating different peoples code

