



TextBuddy

A website to buy and sell
textbooks and notes from
other college students

Team: Bitz Please



About TextBuddy



- TextBuddy is a website for College Students, like YOU, who might not be able to afford new textbooks, need support in class, and want a community where they can discuss homework and receive help.
- This platform provides students with connections to others with similar needs in a place that allows students to receive and give help through class forums.
- Unlike Craigslist, TextBuddy is geared specifically towards students to meet their similar financial and academic needs.

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Key Features

- Sign up/Create Account
- Sign in/Login
- Sell textbooks and other sources
 - Add textbook/notebook functionality
- Buy textbooks and other sources
 - Search functionality
- Forum separated by categories of subjects
 - Posts/Replies

Methodologies used throughout project

Agile

- Change the requirements as needed, experimentation and adaptation frequently
- Maintain a constant pace in development
- Maximizing the amount of work done
- Focus mostly on customer value, a simple but working product

Rank: 5

Methodologies used throughout project

Pair programming

- Increase efficiency
- Reduce errors
- Everyone makes efforts in every feature
- Allowed monitoring of code
- Difficulties:
 - Features often built on each other, so sometimes people couldn't work at the same time

Rank: 4

Tools Used

Project Tracker: Gantt

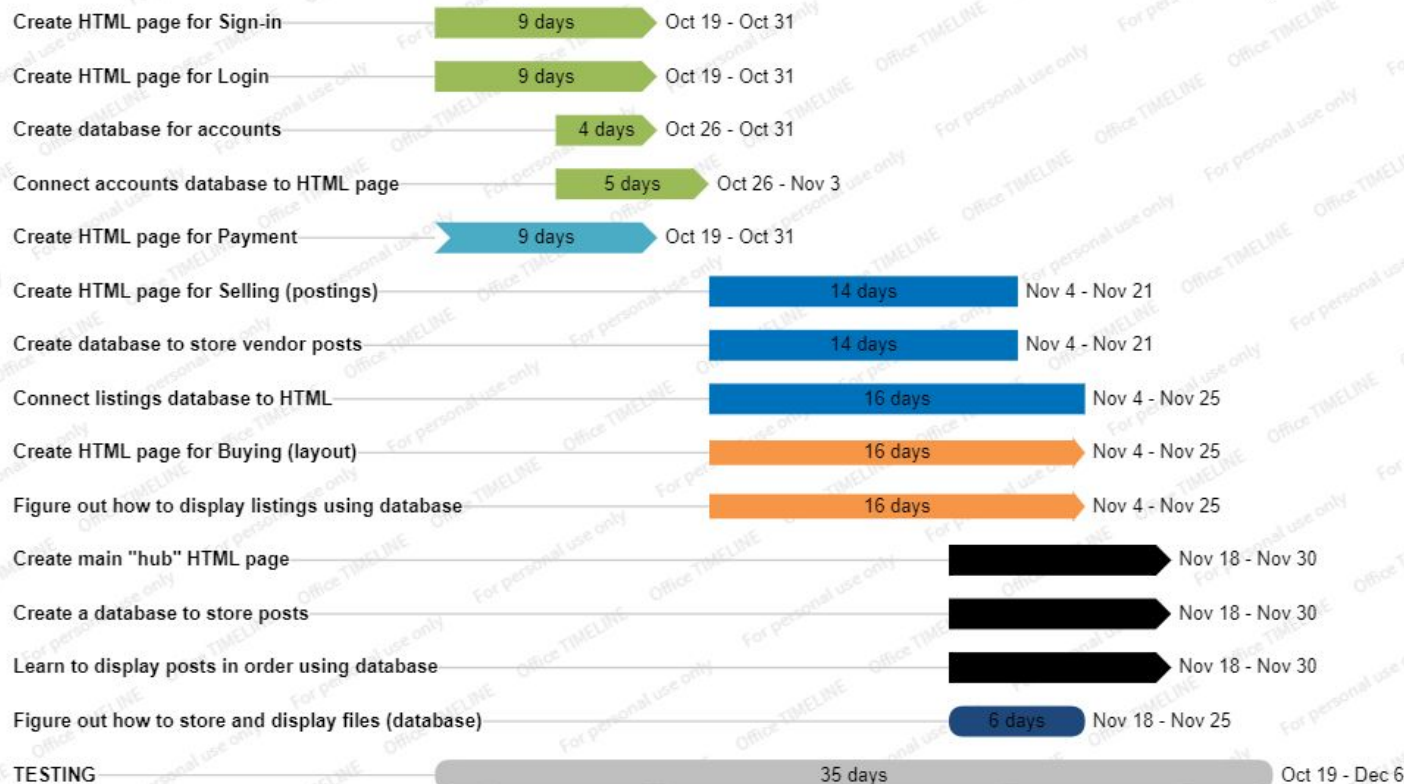
- Website used: Office Timeline Online
 - Was difficult to edit → the tool was inefficient
- Because we worked on different features together, it wasn't very efficient. → Paired programming
- Especially with the agile methodology, timelines kept changing
- Development of one feature/sprint affected the other
- Most importantly, communication, and deciding tasks at every weekly meeting
 - Making sure all team members were aboard

Rank: 3

TextBuddy Development Schedule

2019 Oct Nov Dec 2019

Today



Tools Used

VCS repository: Github

- Version Control
- Through the remote repository, code can be exchanged with teammates
- Keep track of every modification of the code and easy to comment for changes
- Difficulties:
 - Merge conflicts
 - Would require meeting up often

Rank: 4

Tools Used

Database: PostgreSQL

- Store all the information from user during account sign-up:
 - username, password
 - first and last name, user email
- Store textbook listings
- Forum
 - Post & Reply
- Free and Open-source. Pretty efficient in creating tables and working with database from server

Rank: 5

Tools Used

Deployment environment: LocalHost

- Easy to test, and when changes were made to server or website page, it was easy to simply restart the server
- Each person, after pulling source code from the GitHub, could run the website locally

Rank: 4

Tools Used

IDE: Atom

- Teletype and Preview HTML packages increased efficiency
- Implement pair programming technique using real-time collaboration
 - Teletype
- Push and pull to GitHub directly from Atom due to connectivity between Atom and GitHub

Rank: 5

Tools Used

Framework: Node.js and Pug

- Handle HTTP request
- Efficient with combining node js and html pages
- Difficulties:
 - Had to change the database password everytime we pull source code from GitHub
 - Had to learn how to utilize PUSH requests with parameters

Front-end: HTML (Pug), Bootstrap CSS classes

Challenges we met

- Connecting front-end to back-end
 - Working with NodeJs and Pug
- Integrating payment methods for users to purchase from one another
- Password security
- Keeping track of user logins
 - Resolved with express sessions

What Helped...(a Lot)

- Team meeting right after recitation in this exact room where everyone can be productive and get some work done (Thursdays at 5:15)
 - Minimized times where people couldn't make it to the team meeting
- Communication through GroupMe
- Worked collaboratively on milestones on Google Drive
- Extra meetings to further improve the project



DEMO!

Future Improvements

- Make the website more inviting
 - Add pictures and diagrams
- Add more javascript to work with create and confirm password
 - Connect with node js
- Integrate payment method
- Update search functionality to create more in-depth searches
- Deploy it on Heroku (or any sort of cloud platform)

THANK YOU!