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Environment Checklist

☑ ~~GitHub - Shared software version control/documents repository~~
https://github.com/Software-Engineering-I-Group/CS-GY-6063-project
☑ ~~Slack - Team communications (chat rooms) established~~
https://softwareengin-sn67630.slack.com

Team Project Ideas

1. Textbook Exchange

Deliverable Format: Website
Purpose: Provide a platform for college students to trade, sell, and rent textbooks
Motivation:
- Textbooks can be expensive and are rarely needed after a course ends
- Students normally use FB groups to trade/sell/rent textbooks
- No dedicated platform to easily browse available textbooks in one's college

Scope/Features:
General
- Sign up: will need college emails to associate student with a college space
- Profiles: will display history of transactions (to build trust) and current books on rent
- Payment: need to store card details to enable payments through the website / alternatively, payments can be handled outside of the platform to avoid taxes and transaction fees
- Private message and notifications: self-explanatory
- Search: search users and textbooks available in one's college space

Sellers
- Post: can post books for sale/rent with price; will need to associate book with a course and state its condition for buyers to easily find and compare; other details: images, editions, IBAN number
- See and decline/accept request from buyers for particular textbooks

Buyers/Renters
- Browse textbooks by course
- Filter textbooks by price, condition, and other factors
- Send requests for rent/sale
- Star/Save textbooks for future

2. Dog Walking

Deliverable Format: Web application
Purpose: To better connect dog owners and walkers in NYC
Motivation:
- Stronger community
- Owners - Find secure and reliable dog walk
- Walkers - Get more opportunities to provide service

Scope/Features:
Owners
- Search: Find nearby walkers
- Reserve: Book a dog walk by assigning distance/route/time etc.
- Message & Notification: Chat with walkers and get notified (email) for new message
- History: Check current/completed walks with precise GPS tracking information
- Profile: Upload/edit profile and view rating collected from walkers

Walkers
- Schedule: View and manage weekly/upcoming dog walk schedule
- Dog-walk Mode: Start/end a scheduled dog walk and record its route
- Message & Notification: Chat with owners and get notified (email) for new message/reservation
- History: View a dashboard of completed walks/earnings/distance/time etc.
- Profile: Upload/edit profile and view reviews collected from owners

3. Stock Price News

Deliverable Format: Website
Purpose: Provide a one-stop platform to help users to collect information and make better decisions for stock trading
Motivation:
- Users can make timely decisions with the help of real-time updates
- Users can easily track investments and portfolio performance at one place

Scope/Features:
General:
- Search: Search company/market information
- Watchlist: Add or remove a company in watchlist
- Portfolio: View current account value/potential benefit value etc.

Stock/Company:
- Newsfeed: Scrapes related news and provides latest headlines/keywords
- Earnings: Shows earnings calendar of historical and coming earnings release
- Charts: Shows historical price information in time series graph

Markets:
- Newsfeed: Scrapes market news and provides latest headlines/keywords
- Charts: Shows market summary of major indices such as Nasdaq/Dow/S&P etc.

- Leaderboard: Lists top 10 most active (with largest change %) companies in a market