



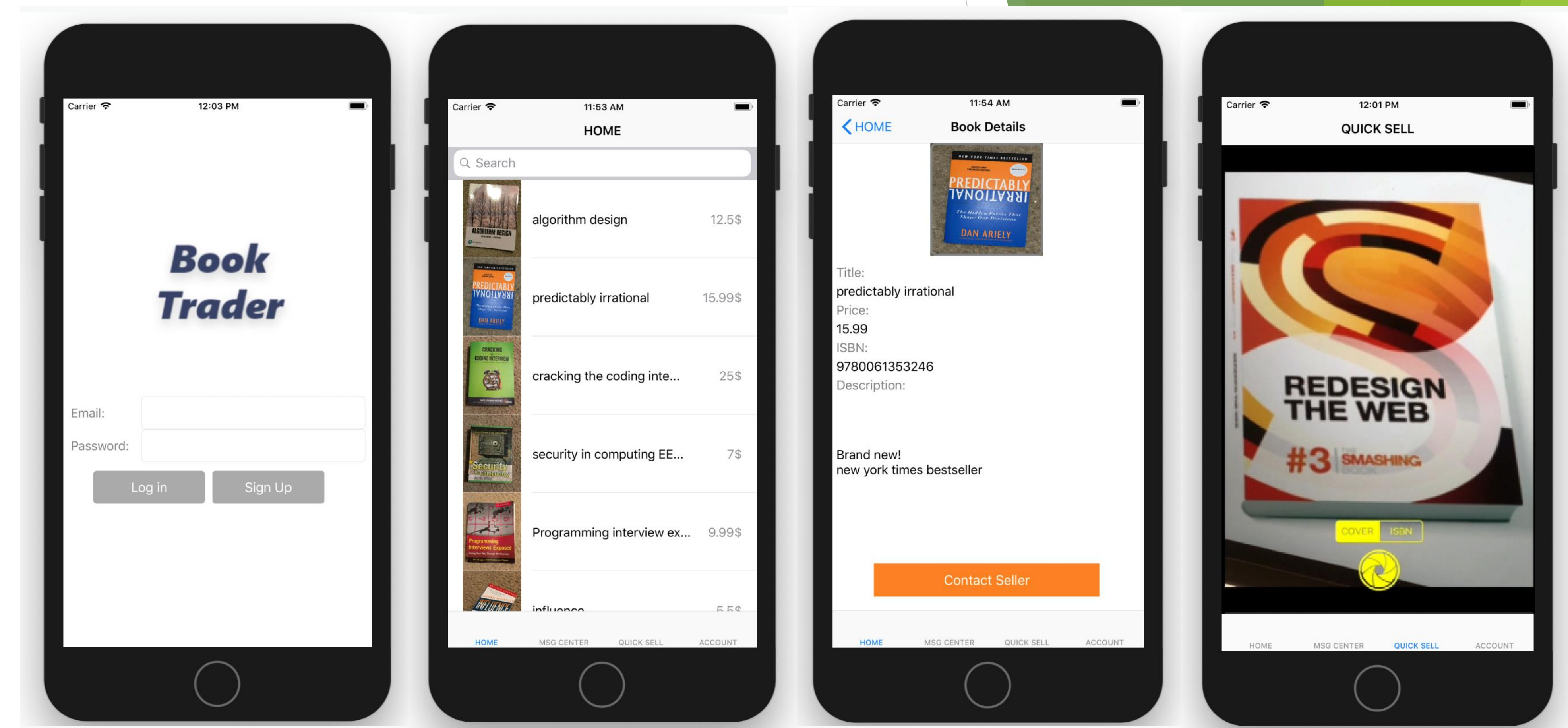
Book Trader



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Description & Purpose

- Book Trader is an app that allows students to post their school books online for sale.
- This project's purpose is to provide a simplified means for KU students to buy and sell school books with one another.
- Through its simple user interface, and streamlined book recognition feature, our app allows students to get the most out of their book transactions.



Login

Marketplace

Book Posting

Scan

Design



Frontend Book Trader is written in Objective-C, and was built using X-Code as the development environment.

Machine Learning/ Pattern Recognition

Books can be scanned using real-time object detection and character recognition, handled by YOLOv3 and Tesseract OCR respectively. This information is then added to the book posting.

Backend Separate tables for user accounts and book postings are stored on a MySQL database hosted by AWS.



Ethical & Intellectual Property Issues

- While the risk is low, there is always the possibility of scammers using our app. Should a user try to scam another, administrators can ban the account of the fraudulent user.
- Obviously, there are many other apps/websites out there that are similar in concept to ours. Craigslist is perhaps the most obvious example, as it offers a similar platform for users to exchange items and services between one another. That being said, our project is still distinct. It appeals to a much narrower set of users, and unlike most other marketplaces, it is not being distributed for profit. On top of that, we built this application using our own unique stack of resources. There are no software copyrights for an idea such as this one, so there is no risk of us infringing on the copyrights of previously-developed applications.

