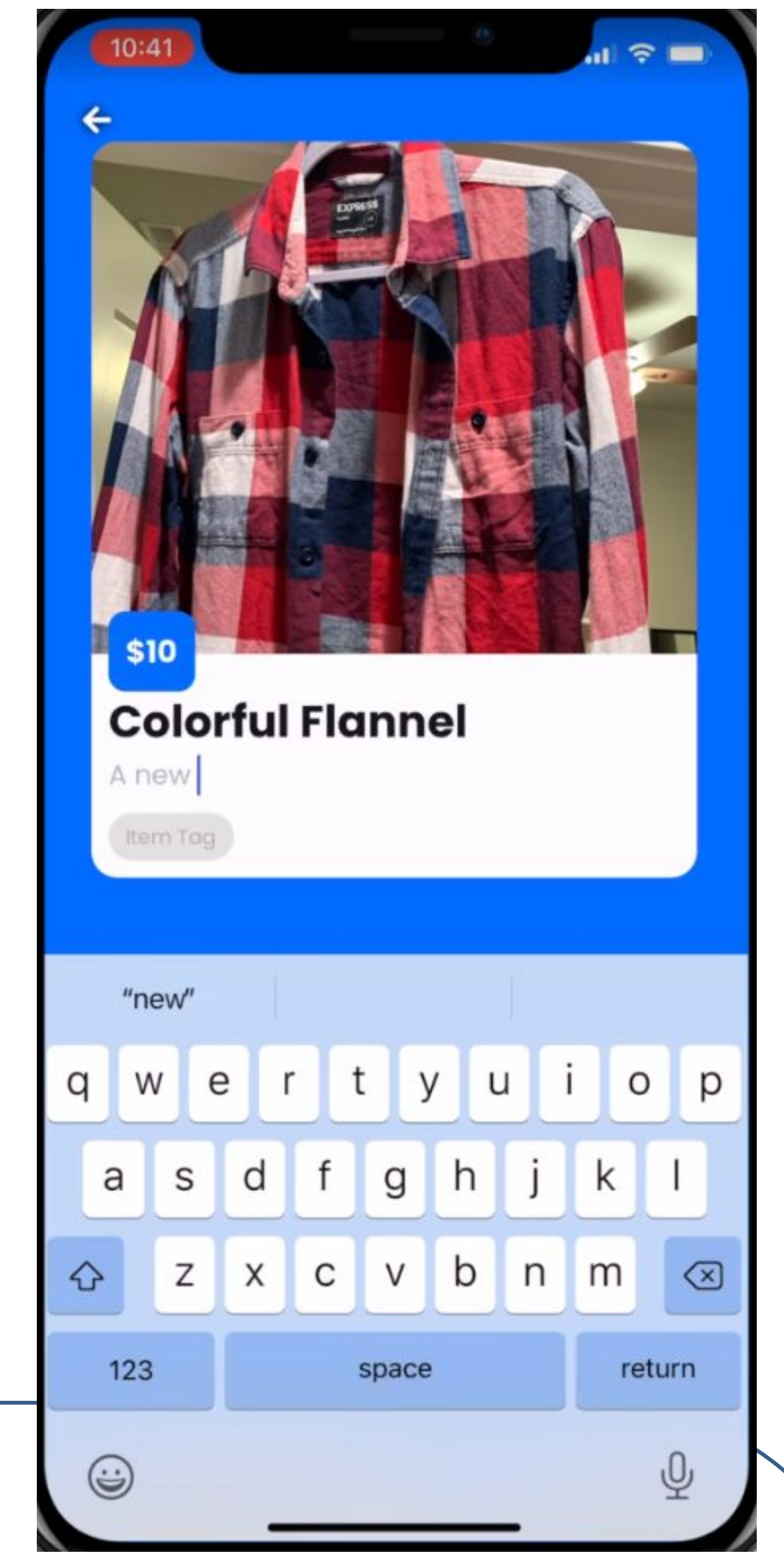
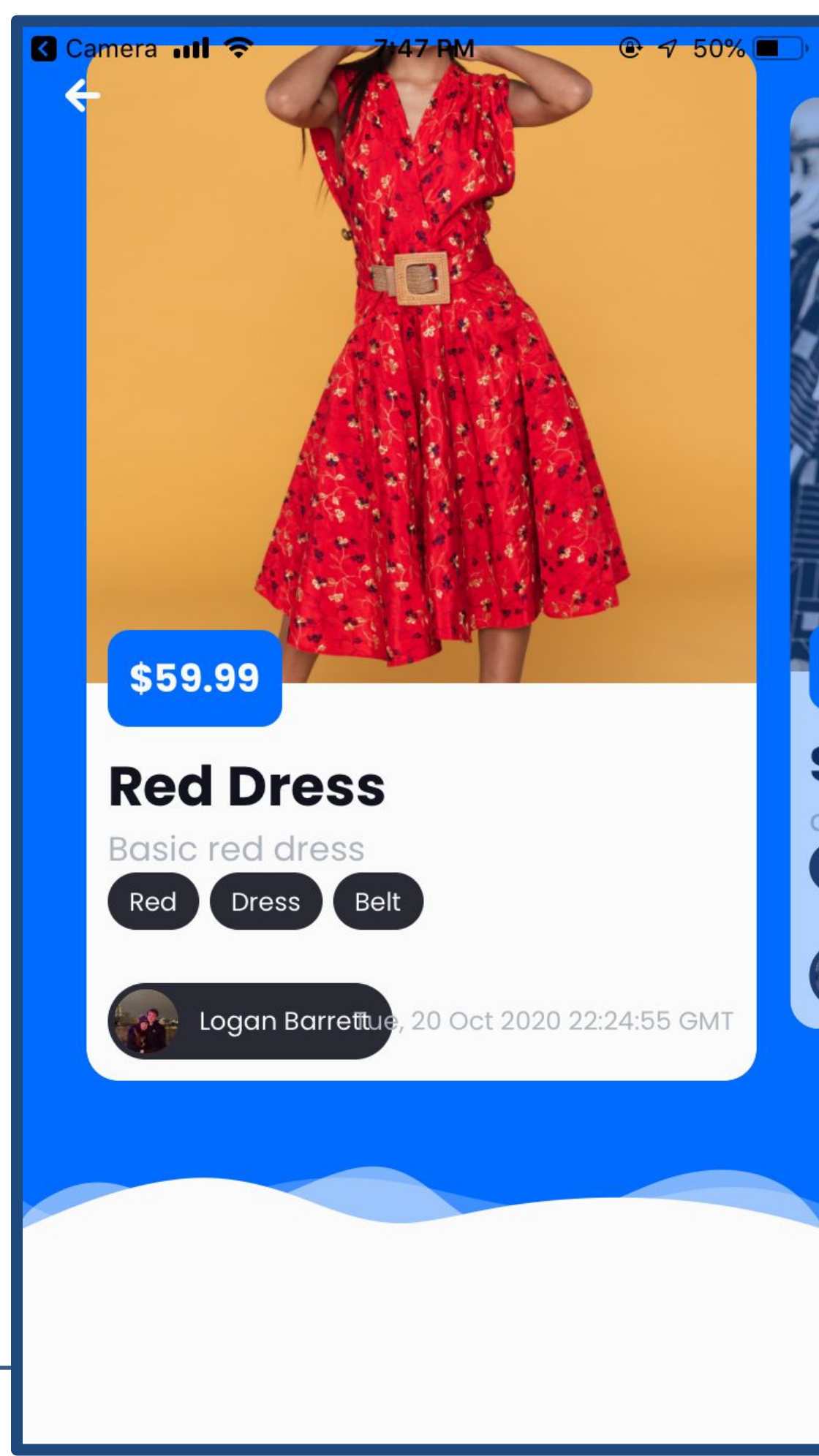


Thrifty



Logan Barrett

Emin Okic

Matt Rayman

COM S 402 Fall 2020

Project Description:

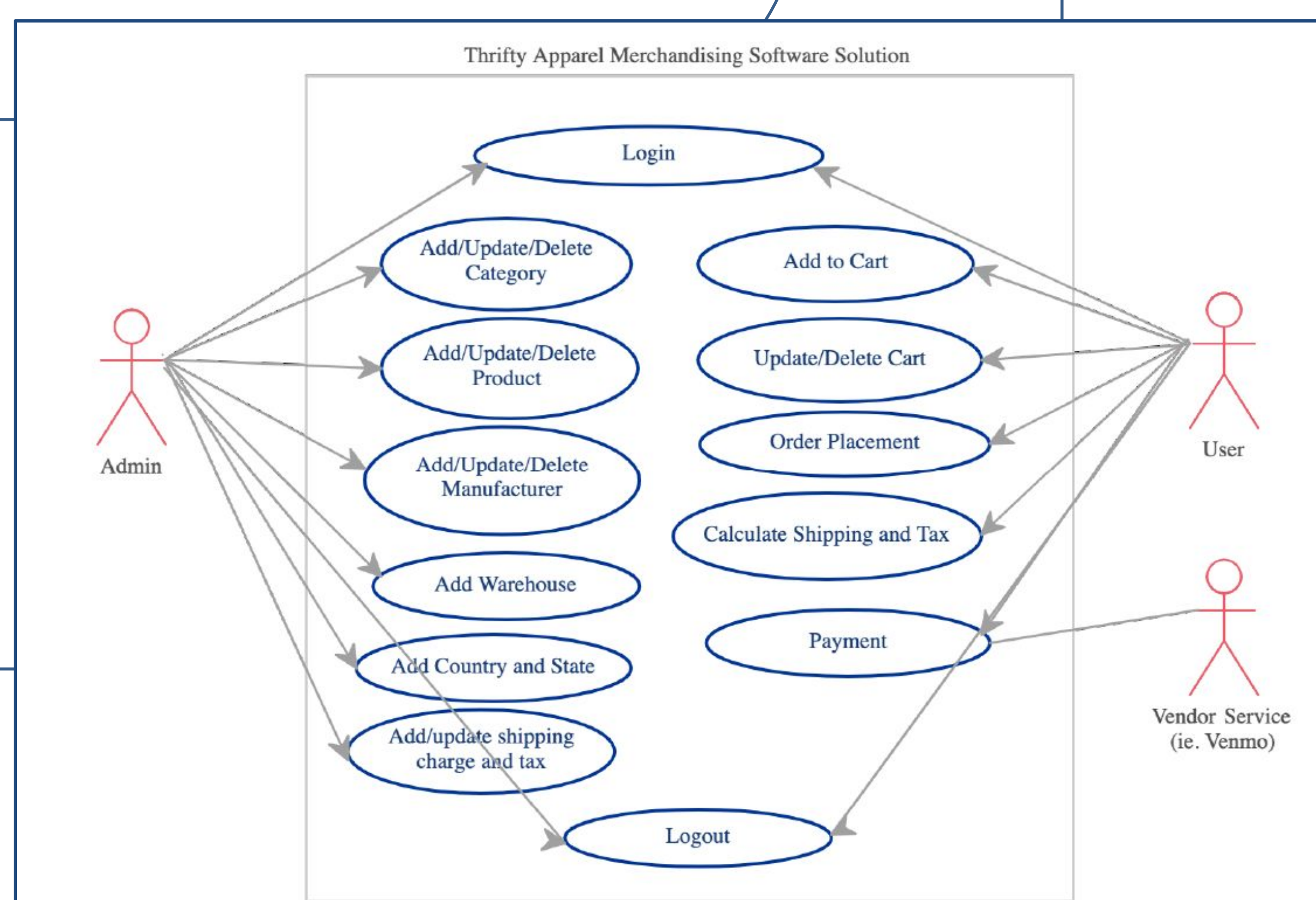
Our project is a cross platform apparel merchandising application where individuals and companies can buy, sell, or trade clothing. The app targets the problem of pollution and waste from clothing that has been increasing with fast fashion. With the average american throwing away 81 pounds of clothing each year, fashion is a leader in pollution across all industries.

Users:

- Fast Fashion Companies
- Individuals looking to buy/sell clothing

User Interfaces

- Home screen for navigating through the application
- Profile screen where users can edit their profile and view others
- Upload screen where users upload items to sell/trade by adding pictures
- Browse screen where users can swipe through items for sale that are categorized and utilizes machine learning
- Messaging system where users can chat and discuss items up for sale

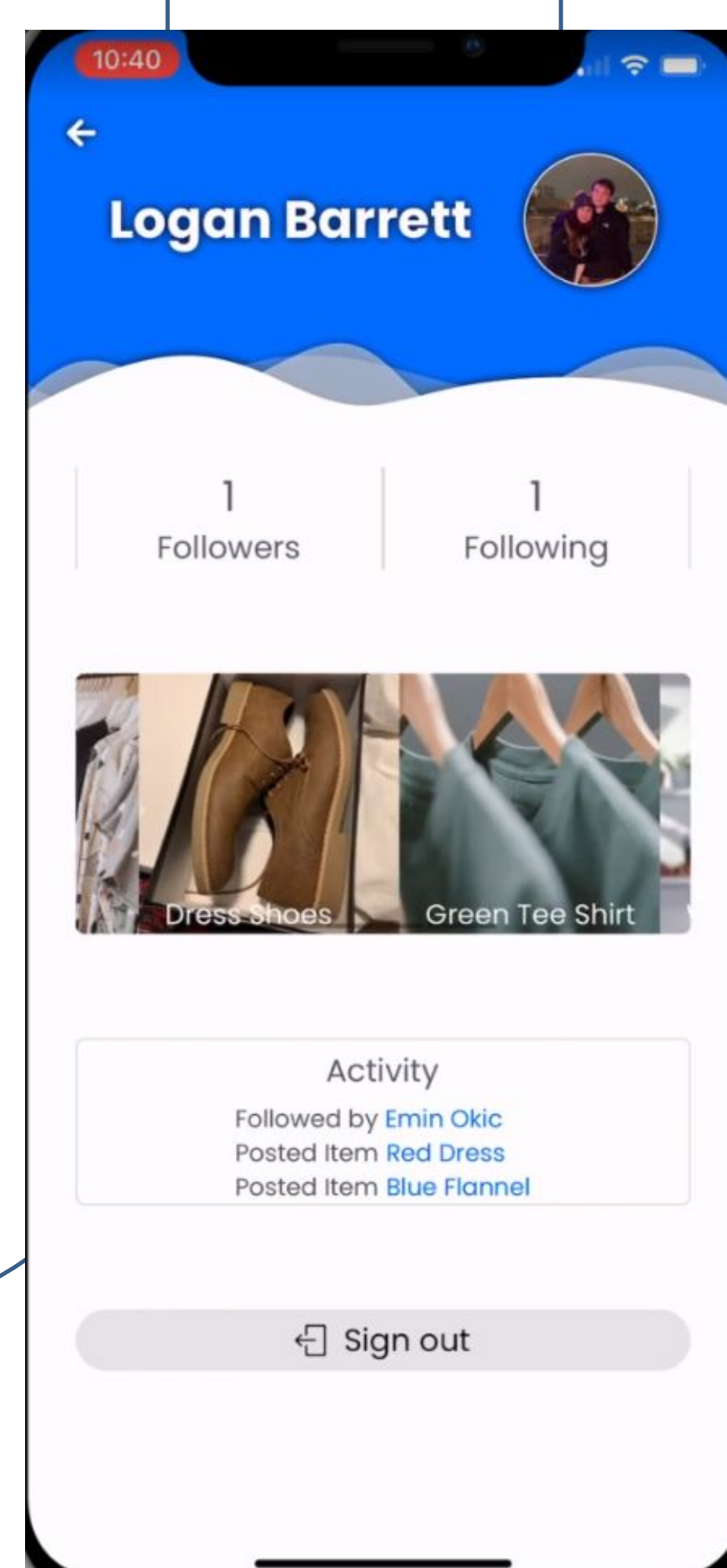


Module Interfaces:

```
function IntroScreen()
Displays welcoming information for first time users to swipe through.
function handleSignInBtn()
Allows users to signin to an existing account.
function handleSignUpBtn()
Allows users to create a new account.
function handleBackBtn()
Navigates back to the home screen from any of the other components for navigation
function handleGoToProfile()
Navigates to profile screen for viewing or editing if it is your profile.
function AddItemModal({ visible, setVisible })
Pops up a new window where users can upload an item they were looking to sell.
Sets the modal to be visible.
async function uploadImage(parentRef: storage.Reference, uri: String)
Uploads an image to the firebase storage using the uri created when selecting an
image from the camera roll. Used for uploading clothing items to sell or when
setting an account's profile picture.
async function handlePostItem()
Saves the item to the database in the proper formatting with the related
information such as the pictures, name, user, and price.
function ItemCard({id, name, description, tags, createdAt, images, price, uid,})
Creates a "card" displaying all the key information about an item listed in the
arguments. This is used to make the items easy to view and clean to look at for the
browsing screen where the cards are swiped through.
```

Design Decisions:

- How to make navigation in the app easy (home screen instead of a navigation bar)
- How to deal with a large database of clothing
 - Categorize items based on tags
 - Use machine learning to make the user experience better and more personalized
- Cross platform compatibility to reach more users
 - Using React Native for development
- Using Firebase for data storage



Team Info:

Logan Barrett – Com S (Sr)

Emin Okic – Com S (Sr)

Matt Rayman – Com S / Math (Sr)

What Went Wrong:

- Dealing with two team members leaving
- Learning new software tools/languages lowered productivity

What Went Right:

- Keeping the app bug free
- Making a modular designed application
- Creating a business model/ understanding potential users

Lessons Learned:

- Plan out a detailed design early on
- Communication is very important when working virtually

