CS 4720 - S17 - Final Project Proposal

Device Name: Gengar Platform: Android

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App Name: Pokédex

Project Description:

Our Pokédex app will be the perfect app for pokemon card lovers around the world to keep track of their cards and decks on their phone. Many card collectors keep their cards in binders, making it difficult to remember which cards you own when the collection is large. The binders also make it inconvenient to take cards out and move them around into decks. An electronic resource would make those tasks easier. It would make it possible for collectors to carry information about their decks everywhere they go with ease, allowing them to record what cards they have as well as those that they want to purchase.

Our proposal is to create an app that will do the following:

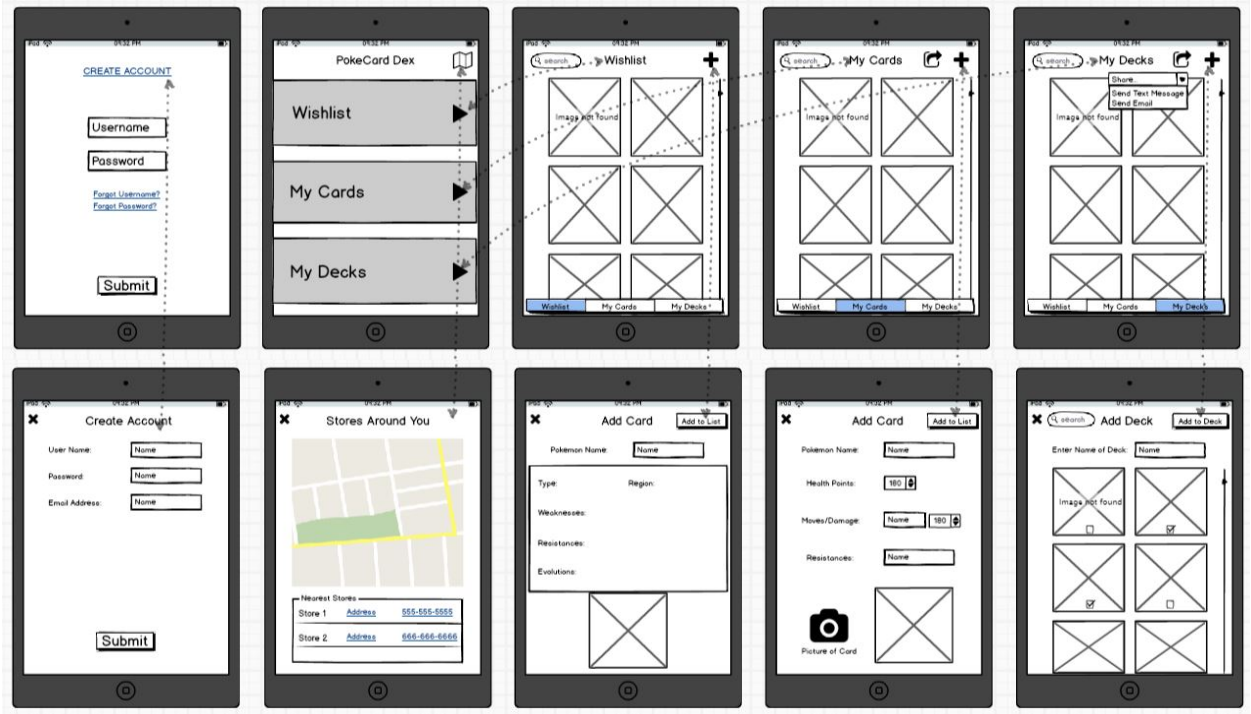
- The system allows any user to create an account by providing an username, password, and email address.
- Users can then add cards to their deck.
- The add Pokémon page allows to user to store information about the Pokémon card. Some information about the Pokémon is loaded from the Pokédex API, but the individual card's stats would be added by the user. The card information would also include the ability to take and store a photo of the Pokémon card.
- Within the myCards list, users can scrolls through all of their cards or search through the deck for specific cards.
- There will be the option of creating and editing decks, which involves selecting cards that they have in their myCards collection.
- Users will also be able to search and scroll through their list of decks.
- Users will have the option of sending decks and individual cards, along with the associated stats and information, to their friends through email or text messaging.
- Lastly, users can look up Pokémon to add to their Wishlist page, allowing them to keep track of what else they want to buy. The information about the Pokémon can be acquired from the API, to show the user information about the Pokémon in general, such as type and evolutions.
- The Wishlist will be displayed as a picture list with a search option, like the My Cards section.

We plan to incorporate the following features:

- Camera - A student can take a picture of a card to remember what graphics are on the card, and to display it as the card's icon image.
- Consume a pre-built web service - We will read in information and images from the Pokemon API that describe each Pokemon added.
- Data storage using key/value pair storage - The app will store a user's username, password, and email.
- Data storage using SQLite (Android) - Storing the decks and cards for each user.
- Open shared activity / features - Users will have the option to send their decks and individual cards to friends through email or text messaging.

Wireframe Description:

The wireframe illustrates how we plan for the activities of our app to be laid out. The first page is a login that would check for a username and password, and it would allow a user to create a new account with a username, password, and email. After logging in, users are offered 3 main buttons on the screen, to navigate to their "Wishlist", "My Cards", and "My Decks" sections. All three pages are lists, and there is also a tab bar at the bottom to navigate and switch from page to page. The plus buttons on the upper right side of all three lists allow you to add card or decks to the respective lists. The "Wishlist" "Add Card" page pre-populates with default information from the API, while the "My Cards" "Add Card" page allow you to include more specific information about the card and take a picture or use the default. Lastly, the "Add Deck" option brings up a list of cards that you can tap to add or remove the cards from the deck. On the upper left of the "My Cards" and "My Decks" sections, there are little icons to the left of the plus buttons, which brings up a drop down menu allowing users to share their Decks or Cards with their friends. The last functionality, on the initial page after the login screen, is the locate store icon. The user can tap it to take them to an activity with a physical map and a list that tells the user what card stores are in their area.


CREATE ACCOUNT
Username
Password
Forget Username?
Forget Password?
Submit
PokeCard Dex
Wishlist
My Cards
My Decks
Wishlist
My Cards
My Decks
Share...
Send Text Message
Send Email
Image not found
Create Account
User Name:
Password:
Email Address:
Name
Submit
Stores Around You
Nearest Stores
Store 1
Address
555-555-5555
Store 2
Address
666-666-6666
Add Card
Add to List
Pokemon Name:
Type:
Region:
Weaknesses:
Resistances:
Evolutions:
Health Points:
Moves/Damage:
Picture of Card
Add Deck
Enter Name of Deck: