Pokémon Card Trading Platform

**Team Members:**

Dan Park

Angela Marie Tagudin Chua

Amany Omar

**Executive Summary**

Our project focuses on building a Pokémon card trading platform using real-time data from the Pokémon TCG API. The primary goal is to help users search, favorite, and explore trading cards through a clean, dynamic UI. Our solution addresses the problem of scattered card information by aggregating card data in one place and allowing users to manage personal favorites/history. Key deliverables include dynamic routing, protected login functionality, global state management with Jotai, and API integration.

**Project Tasks**

|  |  |  |  |
| --- | --- | --- | --- |
| **Person** | **Step** | **Details** | **Date** |
| Angela | Work on wireframes | Create basic layout, design, etc on Figma | Done on March 29 |
| Amany\_phase 0 | Organize product data, web navigation | Organize what product data will be shown to user, decide the architectural map for website | Done on March 26 |
| Dan | Organize website info | Decide on website name, description, info, etc, for each page | Done on March 30 |
| Dan | Create main page layout | Create navigational bar, components, etc... that will show for each site |  |
| Amany | Task 1 | Modeling Store Data, and creating the base pages of our site |  |
| Angela |  | Implement database that stores user data, database API |  |
| Dan | Task 3 | Authentication/Authorization |  |
| Angela | Task 4 | “Favorites” Functionality |  |
| Dan | Task 5 | “Route Guard” functionality |  |
| Amany | Task 6 | Publishing our App on Vercel |  |

A screenshot of a computer

Description automatically generated

Project Deliverables

|  |  |
| --- | --- |
| Phase/Date | Details (form, route) |
| Phase1 | UX/UI Wireframe, product list |
| Phase2 | User database initialized, and codebase with layout, product listing, pagination, basic functionality done |
| Phase3 | Codebase with user account integration, user authentication, favourites, done |
| Phase4 | MongoDB connected and tested with site, bug-fixes applied, website css applied |
| Final Phase | Deployment, final bugs fixed |

**Proposal**

* Many people in the world have a special kind of item valuable to them. Some bottle caps. Others fountain pens. Most, trading cards, specifically Pokemon cards. As the amount of cards to collect from is vast, this website provides a catalogue that helps users sort and track their favorite cards.
* To achieve this functionality, we will include:
  + A way to fetch information that includes most cards from the trading card game.
  + The option to search for cards or a specific card in the TCG database.
  + The option to create user accounts where users can add and remove cards to their favorites.
* As many cards exists within the Pokemon TCG, it can be hard to keep track of each and every card. A way to easily retrieve card data and a way to store cards in some way can help the user better manage their card collection.
* For instance, we can include an option to filter cards based on specific characteristics like a card’s Type. This can make searching more efficient for the end-user.
* With 3 people in our team, all with the knowledge of utilizing React and Next.js, we believe we have the capacity to complete this project.

**Tasks:**

Task 1: Modeling Store Data

Task 2: WireFraming, Layout, Dynamic Content

Task 3: Authentication/Authorization

        Step 1: Create a “User” API

        Step 2: Update Next.js App (Login and Register Components)

Task 4: “Favorites” Functionality

Task 5: “Route Guard” functionality

Task 6: Publishing our App on Vercel

Task 7: (Bonus )  
                Additional functionality: site interact with dynamic data  
                Unit testing

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_