Group Members: Celeste Rios, Alan Sandoval, Carlos Herrera, Troy Rodriguez

Vaquero Marketplace Plan

Planned Tech Stack:
Frontend - Next.js (Using TypeScript). App Router, full-stack React framework
Styling - Tailwind CSS. Utility first styling easier to style
Backend - Supabase. Postgress DB, Auth, and Storage.
Auth - Supabase Auth. Email/password login, (possible Google OAuth)
Deployment - Vercel (Maybe). Easy auto deploy from GitHub
Version Control - Git + GitHub. Collaboration and team branches

Github Link:
https://github.com/tfrhyde/vaquero-marketplace.git

Features - MVP Scope
1. **Core Features -** User sign up/login (Supabase Auth)
2. **Post a listing** - (title, description, price, category, contact info, image)
3. **View all listings**
4. **View all individual listing details**
5. **Filter listings by category**
6. **Filter listings by price**
7. **Sort listings by newest**
8. **Delete/edit own listings**
9. **Protect /post and /account routes**
10. **Save/bookmark a listing**
11. **Contact the seller via email or message.**
12. **Mark listing as "sold"**
13. **Filter by meet up location**

CRUD Operations
Create = Post new listings
Read = Browse/view listings
Update = Edit listing (only if user owns the listing)
Delete = Delete listing (only if user owns the listing)

Pages/Routes
/ = Home - feed of all listings
/signup = Sign up page
/login = Login page
/post = Form to create a new listing (protected)
/listing/[id] = view individual listing details
/account = view/manage user's own listings
/favorites = bookmarked or favorited listings

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Supabase Schema

Listings Table

Column Name	Type	Description
id	UUID	Primary key. Default: uuid ()
user_id	UUID	Foreign Key to auth.users
title	Text	Listing title
description	Text	Full Description of item
price	Numeric	Listing price in USD
category	Text	Electronics, Books, Furniture
image_url	Text	Link to Supabase Storage image
item_location	Text	"Edinburg" "Brownsville" "Both"
sold	Boolean	Defaults to false. Becomes true when sold
created_at	Timestamp	Default: now()

Bookmarks Table

Column Name	Type	Description
id	UUID	Primary Key, auto-generated
user_id	UUID	References auth.users.id
listing_id	UUID	References listings.id
created_at	Timestamp	When the bookmark was added default now()

GitHub & Workflow

main - Stable production branch
dev - ongoing development branch
Individual feature branches (feature/post-form)
Use pull request and code reviews for merging

Testing/QA
Manually test all CRUD flows (create, read, update, and delete listings)
Test edge cases: missing fields, empty listings, unauthorized access
Test sign up/login/logout and user-specific data

WireFrame
https://www.figma.com/proto/DLngUVqfTY3luPf7hxtcA7/Vaquero-MarketPlace?node-id=1-101&p=f&t=178G1boZn5Rd2rA1-1&scaling=scale-down&content-scaling=fixed&page-id=0%3A1&starting-point-node-id=1%3A101

Why Next.js?
1. Full-Stack framework built on react
2. File based routing built in. No need for manual setup like react routers
3. Supports Server Side Rendering, Static Site Generation, and Incremental Static Regeneration. React only offers client side
4. Built-in SEO via server side rendering
5. Allows us to create backend routes in/api
6. Optimizes builds for performances, otherwise done manually with react.
7. Modern React components
8. Frontend first but also full-stack
9. Expect app to be front end heavy

Why Supabase?
Supabase will be our backend-as-a-service, it gives us a fully managed PostgreSQL database, user authentication, file storage, and real-time API's. Eliminates the need to set up a custom backend or manage a server, giving us more time to focus on other user features.

Why TypeScript?
TypeScripts will help us add static typing to our code which will help us catch errors early and improve code readability making team work easier.

Why Tailwind CSS?
Tailwind lets us style our UI easier without having to write custom CSS from scratch. No need to have a separate css file and class names since we are given utility classes with tailwind

Agile Sprints
- ☐ Sprint 1: MVP for Web Application
- ☐ Sprint 2: Any possible improvements further to Web Application for user experience

Roles
- Team Lead/Scrum Master: Alan Sandoval
- Database Manager: Carlos Herrera
- Development Member 1:Celeste Rios
- Development Member 2: Troy Rodriguez

Cost
- 2 Weeks

Project Architecture
Frameworks: Tailwind CSS, Next.js
Baas: Supabase
Containers:
Programming Languages: Javascript, Typescript