Group Project Final Proposal

E-Commerce Application(Craigslist Lookalike)

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1. Detailed Plan Documentation
   - Overview - This application (E-Commerce application) will serve as a way for a user to login and post categorized listings of products they intend to sell. Likewise, they can view other user's categorized listings and 'purchase' products they intend to buy, much like how craigslist works today. Users will be able to view and interact with multiple categories and create their own listings on the site allowing for a fully interactive user-driven experience.

     List of React Components
     - **React** - Front end dev and handling the logic behind the products displaying and search functionality. Also allowing users to add and delete new products as well as edit products as needed.
     - **BootStrap** - Used for creating a seamless front end project development to have more control over the appearance and components in the app.
     - **SQL Database** - This will keep track of users and their listings, allowing for other users to track their listings and post their own. Listings will be bound to individual accounts
       - Database will have 'uuid', 'field', 'product name', 'product description', and possibly 'image'

     Functions and Logic
     - **Adding** - Function will add a new product listing and display to the user and other users of the site. When adding a listing the user would be asked to type in product name, product condition, product price and will also be able to provide a brief description of the product. Once all of the required information is obtained, the product will be added to the site and will be displayed as if it was for sale.

- **Deleting** - Function will delete a listing when completed as marked by the user or when the product has been ‘sold’
- **Editing** - Function will allow a product listing to be edited by the user if something needs to be changed with the item that’s for sale. This is going to be used if the user needs to change the name, condition, price or description of the item. Edited items will be temporarily removed from the category’s list until the item is again ready for presentation
- **Single state-lifted master list** - This will allow the site to keep track of the user’s specific products and act as their list of products. By using a single state-lifted ‘database’ we can easily add/remove and update listings as deemed by the end user. Each Category will have its own list to pull from and will allow for the lists to be functionally independent from one another
- **Login** - For a user to view and post an item for sale. The user will have to create an account with a unique username and password. The username and password will be required once the site is loaded. The user will have the option to sign or create an account if this is the user’s first time on the site.
- **Search** - This will allow for users to search for specific products for sale. The search will be based on product names that have already been added on the site. If no product is available based on the search, a message will be displayed stating that there are no items matching the product name and to try a different search.

API Details

- **GET** - Used for updating / retrieving the current data the user will need in regards to their listings
- **PUT / POST** - Used for adding a new product to the list, or updating a product that is already inside of the list
- **DELETE** - Used for when a user would like to remove an item from the list
- Along with the API requests, our system will respond to these using the status codes, (200, 400, etc…) to provide feedback to

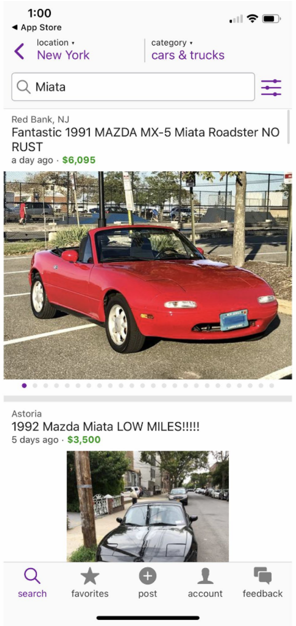
the user when they make changes or modify the list in any way, or if something goes wrong an error message will be displayed.

Endpoints

- **‘/deleteProduct’** - This endpoint will be used when a user wants to delete a specific product. Data passed to this endpoint will be the unique identifier (key) uuid4 value that is associated with the product
- **‘/createProduct’** - This endpoint will be used when a user wants to add a new product to their list. Data passed will be the user's product name, a description, any data associated with the product; and the function will automatically assign a unique ID to the product and update the list.
- **‘/updateProduct’** - This endpoint will be utilized when a user wants to edit an existing product. Data passed here will be the changes they want to make to the product (such as changing the name). As the product is already created, the key ID and the unchanged data will not need to be passed
- ‘**/index’** - This homepage will serve as the core of our application. The homepage will include the Login functions and Search functions as well as displaying a random set of listings placed by other users.
- **‘/uuid/listingID’** - Pages like these will be accessed when a user clicks on a specific product listing, which will direct them to the product page and show images of the product, the price, who posted it, the date it was posted, and the product’s description.
- **‘/uuid’** - This endpoint will be a specific user’s ID and will display all of their current listings. It will function as a ‘homepage’ for a specific user.
- **‘/category’** - This will display specific listings for a certain category, allowing users to browse a category for their needs.

Design

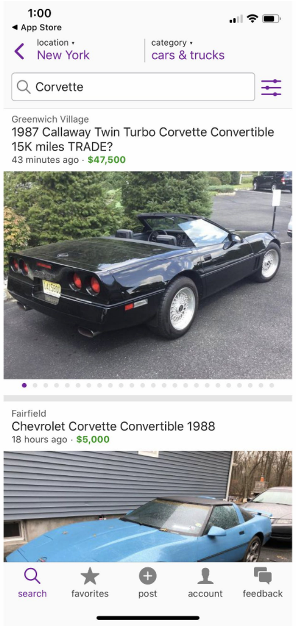
- Inspiration



Miata

Red Bank, NJ
Fantastic 1991 MAZDA MX-5 Miata Roadster NO RUST
a day ago · $6,095

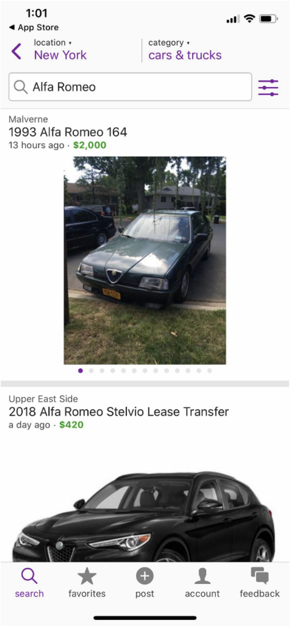
Astoria
1992 Mazda Miata LOW MILES!!!!!
5 days ago · $3,500



Corvette

Greenwich Village
1987 Callaway Twin Turbo Corvette Convertible 15K miles TRADE?
43 minutes ago · $47,500

Fairfield
Chevrolet Corvette Convertible 1988
18 hours ago · $5,000

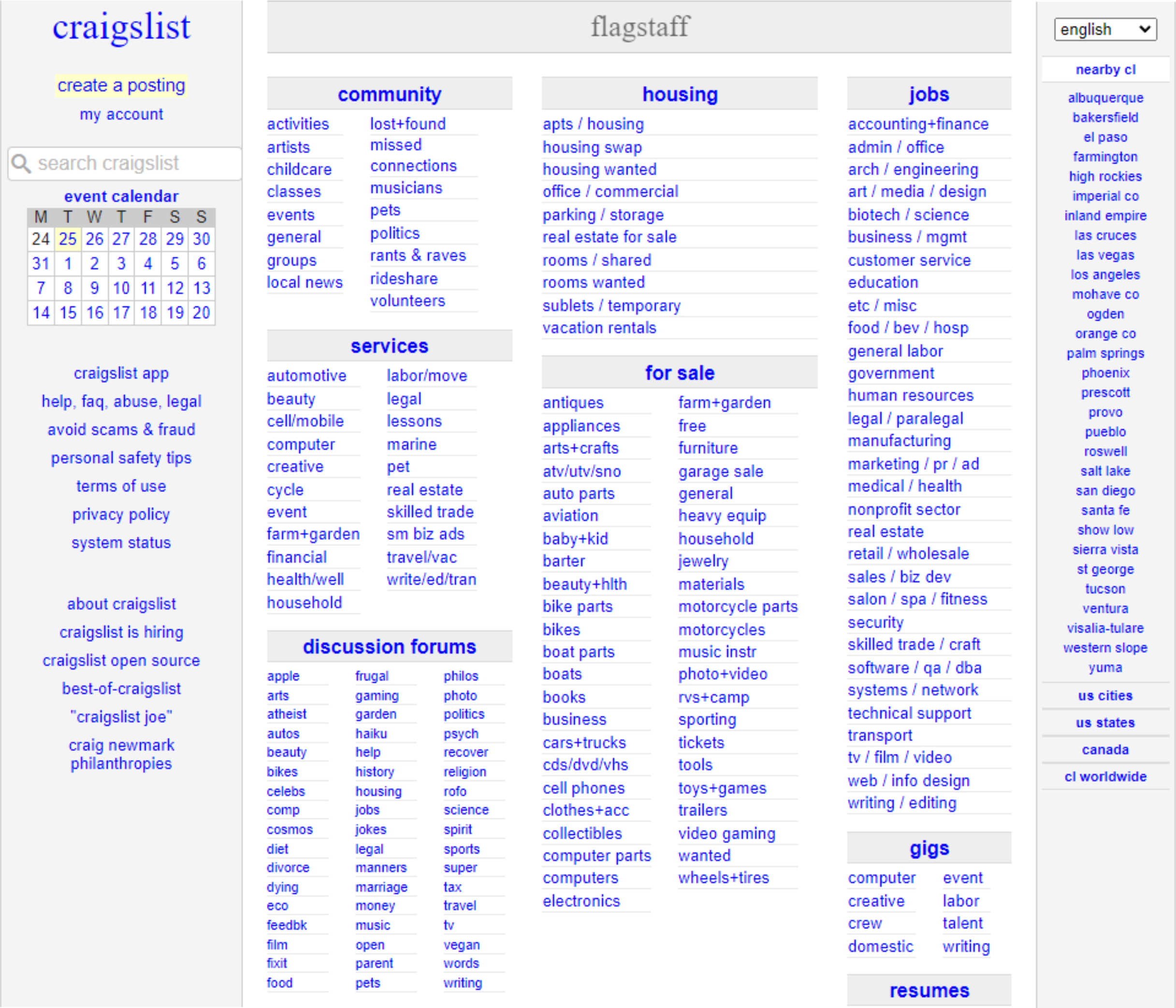


Alfa Romeo

Malverne
1993 Alfa Romeo 164
13 hours ago · $2,000

Upper East Side
2018 Alfa Romeo Stelvio Lease Transfer
a day ago · $420

-



craigslist

create a posting
my account

search craigslist

event calendar

M	T	W	T	F	S	S
24	25	26	27	28	29	30
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20

craigslist app
help, faq, abuse, legal
avoid scams & fraud
personal safety tips
terms of use
privacy policy
system status

about craigslist
craigslist is hiring
craigslist open source
best-of-craigslist
"craigslist joe"
craig newmark philanthropies

flagstaff

community

activities
artists
childcare
classes
events
general
groups
local news

lost+found
missed connections
musicians
pets
politics
rants & raves
rideshare
volunteers

services

automotive
beauty
cell/mobile
computer
creative
cycle
event
farm+garden
financial
health/well
household

labor/move
legal
lessons
marine
pet
real estate
skilled trade
sm biz ads
travel/vac
write/ed/tran

discussion forums

apple
arts
atheist
autos
beauty
bikes
celebs
comp
cosmos
diet
divorce
dying
eco
feedbk
film
fixit
food

frugal
gaming
garden
haiku
help
history
housing
jobs
jokes
legal
manners
marriage
money
music
open
parent
pets

philos
photo
politics
psych
recover
religion
rofo
science
spirit
sports
super
tax
travel
tv
vegan
words
writing

housing

apts / housing
housing swap
housing wanted
office / commercial
parking / storage
real estate for sale
rooms / shared
rooms wanted
sublets / temporary
vacation rentals

for sale

antiques
appliances
arts+crafts
atv/utv/sno
auto parts
aviation
baby+kid
barter
beauty+hlth
bike parts
bikes
boat parts
boats
books
business
cars+trucks
cds/dvd/vhs
cell phones
clothes+acc
collectibles
computer parts
computers
electronics

farm+garden
free
furniture
garage sale
general
heavy equip
household
jewelry
materials
motorcycle parts
motorcycles
music instr
photo+video
rvs+camp
sporting
tickets
tools
toys+games
trailers
video gaming
wanted
wheels+tires

jobs

accounting+finance
admin / office
arch / engineering
art / media / design
biotech / science
business / mgmt
customer service
education
etc / misc
food / bev / hosp
general labor
government
human resources
legal / paralegal
manufacturing
marketing / pr / ad
medical / health
nonprofit sector
real estate
retail / wholesale
sales / biz dev
salon / spa / fitness
security
skilled trade / craft
software / qa / dba
systems / network
technical support
transport
tv / film / video
web / info design
writing / editing

gigs

computer
creative
crew
domestic

event
labor
talent
writing

resumes

english

nearby cl

albuquerque
bakersfield
el paso
farmington
high rockies
imperial co
inland empire
las cruces
las vegas
los angeles
mohave co
ogden
orange co
palm springs
phoenix
prescott
provo
pueblo
roswell
salt lake
san diego
santa fe
show low
sierra vista
st george
tucson
ventura
visalia-tulare
western slope
yuma

us cities
us states
canada
cl worldwide

- The above picture is inspiration for our homepage, wherein users can go to listings they would like to view, and the second image contains UI elements we would like to incorporate like the search and login functionality.
- A design like this would allow users to be able to clearly see their products in a neat and concise way. This much detail is out of our scope, however, the general format and display is our goal. We would want to create a user friendly design that allows the user to easily view, add, delete, and edit the products in a way that is quick and efficient.