



HaulBuddy

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Idea

- Rideshare-like service that lets you call a tow truck/trailer in the area for a cheaper price than a tow truck business
- People with trucks/trailers sign-in and receive requests from users
- Support broken down vehicles and large items (kitchen appliances, furniture, etc.)
- Cloud stores information about users and manages requests



Problems Solved

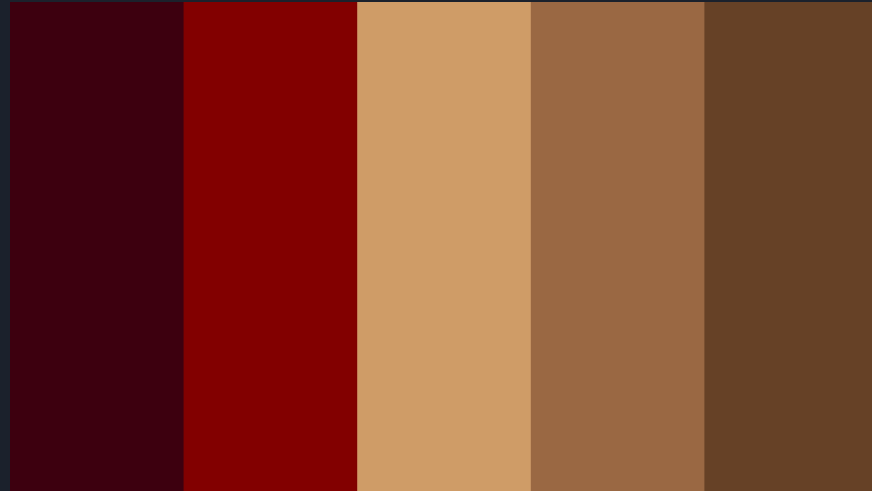
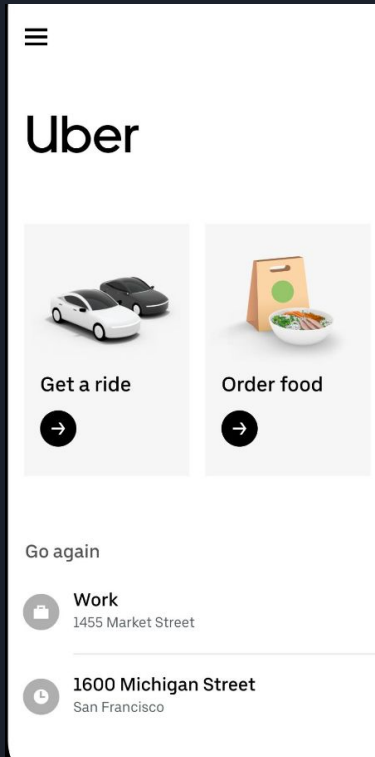
- Calling standard tow truck can be expensive, renting U Haul doesn't get you any help moving, not everyone can justify cost of AAA membership
- Uber exists for rides, Doordash for food, why no service like them for towing and hauling?
- Relying on independent contractors allows for much cheaper operating costs



Design/Implementation

- Cloud provider: AWS
- Backend: AWS Amplify (database, bucket, authentication)
- UI implementation: Figma
- Code: React, a Javascript framework
- IDE: VS Code

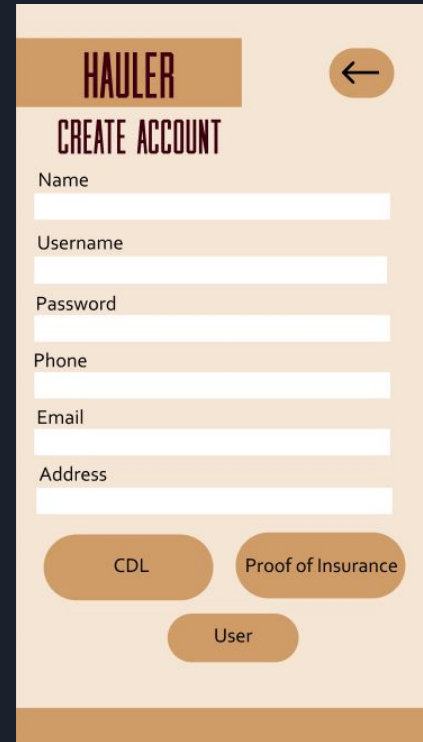
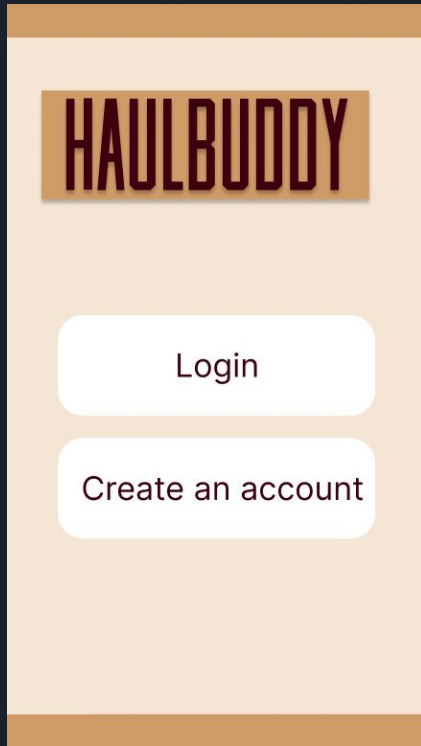
UI Inspiration



CAST IRON

Corbel

UI Interface: Figma



Database and Authentication

- Amplify supplies data input forms that work with Figma pages through the use of slots
- Authentication is separate database with built-in security
- S3 Bucket is used to upload the drivers cdl and proof of insurance

HaulersInformationDataModel (2)

Actions

Create HaulersInformationDataModel

Q

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>

<input type="checkbox"/>	id	CarDescription	TrailerDescri...	WeightCapacity	YearsExp...	createdAt	updatedAt
<input type="checkbox"/>	40adaaea...	Peel P50	small trailer	1	1 day	2023-05-...	2023-05-30T16:08:28.571Z
<input type="checkbox"/>	89649082...	GMC TrailBlazer	Big trailer	320	2	2023-05-...	2023-05-25T22:33:33.627Z

HAULBUDDY

HAULERS PAGE

Car description

Trailer description

Weight capacity

Years experience

Clear

Submit

0%

Choose File

No file chosen

Upload to Admin



Project Status

- The application is able too...
 - Create account, log in, and log out
 - Submit changes to account
 - Upload CDL and proof of insurance
 - Create a request/notify requester that request has been accepted
- In the future this application will need ...
 - Map implementation
 - Chatting between users
 - Review functionality

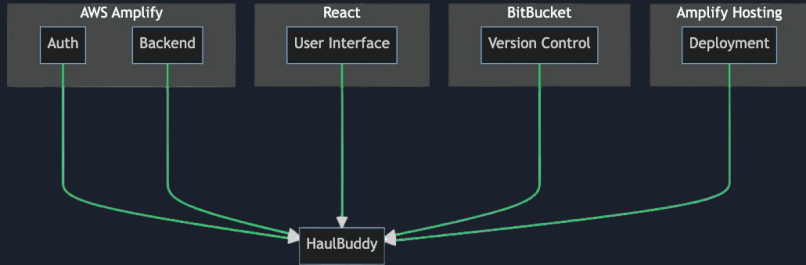
Development

- **Development Path**

- Figma -> Amplify -> React Project -> AWS BitBucket -> Amplify Hosting

- **Milestones**

- Authentication, Button Mapping, Page Routing, Form Insertion, Requests Viewer, Notification sender





DEMO



Create/Login to account

VEED.IO

Create Account

Create User/ Log In

Actions ▼

Unique identifier (username)
HaulBuddyService@gmail.com

Sub ID
AWS | temp

Account status
✔ CONFIRMED

MFA status
✘ Off

User info

Group membership

History

User info

Edit

Email
HaulBuddyService@gmail.com

✔ Verified

Name
John Doe

Phone number
+19897218258

■ Not verified



Hauling/Towing Requests Demo



Hauling/Towing Requests

Requests (2)

Actions ▼

Create Requests



<input type="checkbox"/>	id ▼	Request_Descri... ▼	Email ▼	Name ▼	Reques... ▼	HaulOr... ▼	createdAt ▼	updatedAt ▼
<input type="checkbox"/>	8d54fe86...	Please Tow My Jee...	JaneDoe...	Jane Doe	Jeep Tow	Tow Requ...	2023-06-...	2023-06-04T16:46:24.960Z
<input type="checkbox"/>	f6164b23...	Hello! Please come...	John@gm...	John Doe	Truck Pick...	Tow Requ...	2023-06-...	2023-06-04T16:27:04.432Z



User/Hauling Information Demo



Add Hauler Information

Car description

2013 Chevy Equinox

Trailer description

15 foot double wide

Weight capacity

3 Ton

Years experience

15

HaulersInformationDataModel (1)

Actions ▼

Create HaulersInformationDataModel



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<input type="checkbox"/>	id ▼	CarDes... ▼	Trailer... ▼	Weight... ▼	YearsE... ▼	createdAt ▼	updatedAt ▼
<input type="checkbox"/>	dfffc370f-...	2013 Che...	15 foot d...	3 Ton	15	2023-06-...	2023-06-04T16:51:50.220Z

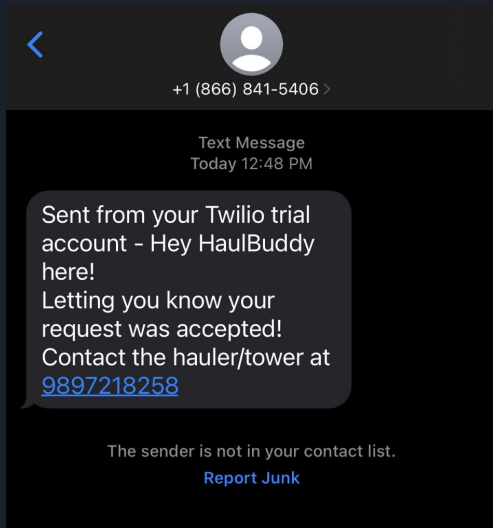
<input type="checkbox"/>	Drivers_License.pdf	226.08 KB	File	6/4/2023, 12:57:19 PM
<input type="checkbox"/>	private	--	Folder	--
<input type="checkbox"/>	Proof_of_Insurance.pdf	47.73 KB	File	6/4/2023, 12:57:38 PM
<input type="checkbox"/>	protected	--	Folder	--
<input type="checkbox"/>	public	--	Folder	--



Accept Request Demo



Accept Request



Request description

Please Tow My Jeep from my home at Kettering University I'll pay 50\$ for this service

Email

JaneDoe@gmail.com

Name

Jane Doe

Request title

Jeep Tow

Haul or tow

Tow Request

Requests (3)

Actions ▼

Create Requests



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<input type="checkbox"/>	id ▼	Reques... ▼	Email ▼	Name ▼	Reques... ▼	HaulOr... ▼	createdAt ▼	update...
<input type="checkbox"/>	f6164b23-3faa-4...	Hello! Ple...	John@gmail.com	John Doe	Truck Pick...	Tow Requ...	2023-06-04T16:27:04.432Z	2023-06-...
<input type="checkbox"/>	da2d2390-6f68-4...	Please pic...	Temp@gmail.com	John Doe	Fridge Pic...	Haul Requ...	2023-06-04T16:45:33.983Z	2023-06-...
<input type="checkbox"/>	8d54fe86-c37a-4...	Please To...	JaneDoe@gmail.c...	Jane Doe	Jeep Tow	Tow Requ...	2023-06-04T16:46:24.960Z	2023-06-...