

TEAM 14

CarPals

*Where Commuting meets
Community*

March 30, 2025



The Project's Vision

CarPals is a carpooling application to match drivers and riders that share a common route. The application will have two different interfaces depending on whether a user would like to use CarPals from a driver or rider perspective. Drivers will be able to post their routes for riders to see and request a ride.

<https://github.com/megraves/carPals>

Key Functionalities:

- **Offer Ride** → Drivers will post their route
 - starting point, destination, time, seats available
- **Find Rides** → Riders can request to join a driver's ride
 - Riders will input their ride information to be matched to rides around their route
- **My Rides** → Display riders/drivers upcoming rides
- **My Pals** → Users can friend other users making it easier to find trusted rides
- **Route Map** → Display routes
 - **Driver** → will show drivers route as well as the route of riders they are picking up
 - **Rider** → will show their route and their drivers route
- **Profile** → Users will create a profile for other users to see
- **Rating** → A rating system will allow drivers to rate riders and vice versa to ensure safe rides
- **Incentives** → Drivers can request incentives such as gas money, etc. and riders can contribute

Team Members

Macy Graves

Primary Roles:
Quality Control
UI/UX style
guidelines

Main contributions:
Getting the React
project started,
Implementing
Tailwind CSS,
created UI/UX style
guidelines

Edwin Tran

Primary Roles:
Mock Data and Map
Implementation

Main contributions:
Map implementation
and planning routes
modal

Lauren Shea

Primary Roles:
Page routing and
information pop-ups

Main contributions:
Implemented routing
between pages and
added 'My Pals' and
'My Rides' drop
down and modals

Sofia Simonoff

Primary Roles:
Component
Documentation &
Storybook

Main contributions:
Implemented profile
page components,
dynamic ride
filtering, offer ride
workflow...

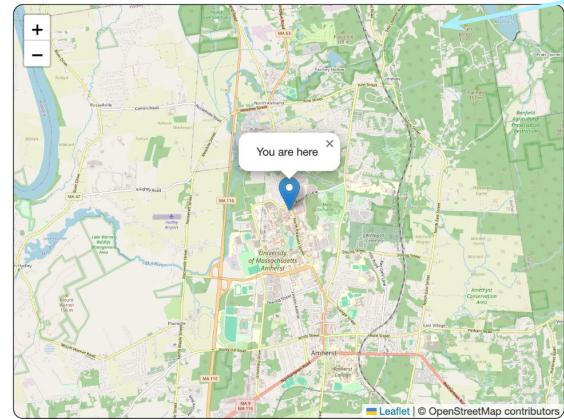
Software Architecture Overview



Home

Plan a Ride

Profile



My Pals

My Rides

Profile Info

Name: John Doe
Email: john.doe@example.com
Phone: (123) 456-7890

My Rides

Boston to Amherst

2025-04-05 at 9:00 AM

Details can go here.

Amherst to Boston

2025-04-06 at 3:00 PM

Details can go here.

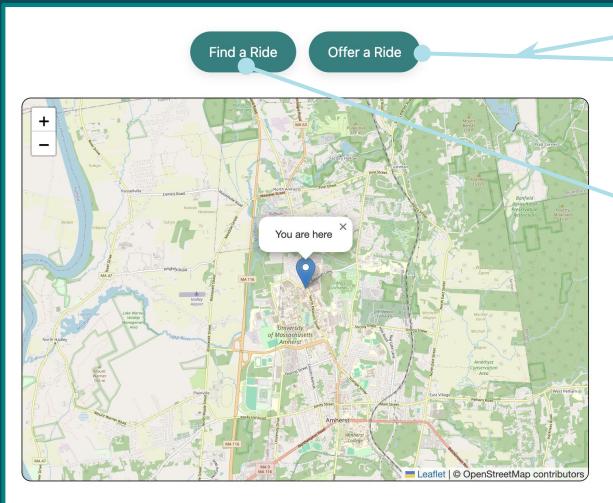
Software Architecture Overview



Home

Plan a Ride

Profile



Find a Ride

Route Name:

Starting Location:

Ending Location:

Pick Up Time:

Days Needed: Su Mo Tu We Th Fr Sa

Submit

Back

Offer a Ride

Start Location

End Location

Departure Time

Seats Available 1

Vehicle Type

Days Available

<input type="checkbox"/> Monday	<input type="checkbox"/> Tuesday	<input type="checkbox"/> Wednesday
<input type="checkbox"/> Thursday	<input type="checkbox"/> Friday	<input type="checkbox"/> Saturday
<input type="checkbox"/> Sunday		

Map: A detailed map of Boston, Massachusetts, showing various neighborhoods like Charlestown, North End, Beacon Hill, Chinatown, South End, Back Bay, and South Boston. The map includes street names, landmarks, and transportation infrastructure.

Historical Timeline

February

- Initial wireframing
- Component planning
- Sprint 1: Vision Deck

March

- Component Development: header, footer, RoutesModal, Profile Page...
- Dynamic features implemented
- Sprints 2 & 3 due

April

- Further Component Development and Dynamic Feature Implementation
- Sprint 4 due
- Slides completed
- Milestone due: April 4th

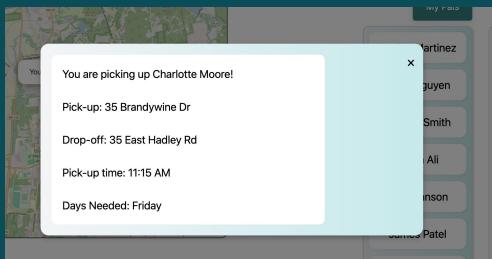
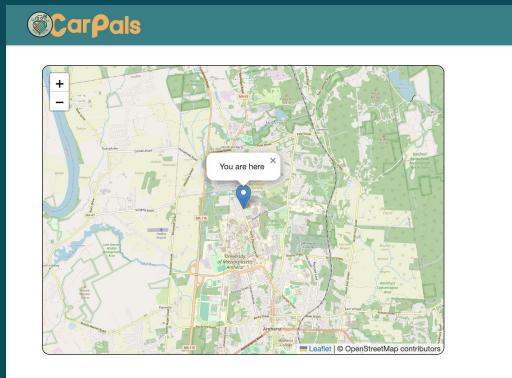
Design and Styling Guidelines

- Color scheme from the color palette provided in Sprint 1.
- Flex grid layout filled with cards (use flex display in CSS).
- POUR principles: perceivable, operable, understandable, robust
- Scaled images to fit their containers so that they adjust fluidly across different screen sizes



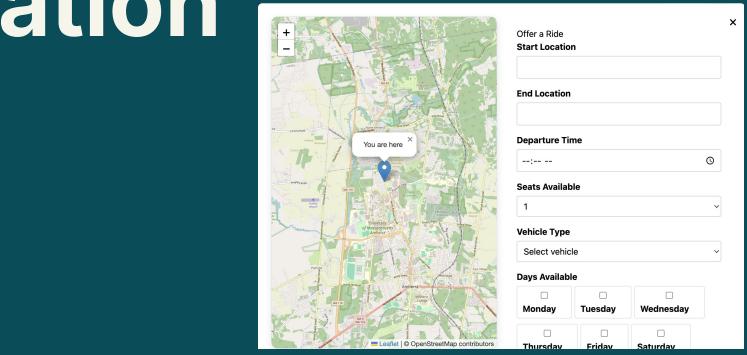
[UI/UX Guide Link](#)

Component Documentation

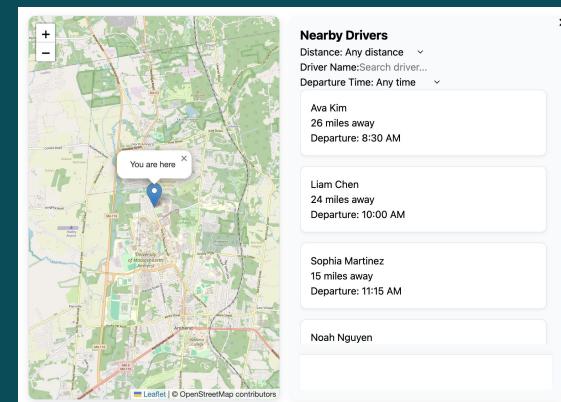


A card-based list component titled "My Pals" and "My Rides". The "My Pals" section lists names: Sophia Martinez, Noah Nguyen, Isabella Smith, Ethan Ali, Mia Johnson, James Patel, and Charlotte Rivera. The "My Rides" section lists addresses: 136 Fearing St, 100 Sunset Ave, 35 East Hadley Rd, and Hasbrouck Laboratory. Each card has a thin blue border.

A modal window titled "Confirm Ride Request" asking "Request ride with Liam Chen?". It contains two buttons: "Confirm" (blue) and "Cancel". This window is overlaid on a blurred background of the driver list component.



offer a ride



find a ride

Performance Considerations

- Reuse of components like Dropdownlist and Ride card allows for less rerenders
- Modals are only shown when needed (isOpen and showPageMap) to avoid excessive DOM usage
- Instead of re-rendering modals that are similar, we just updated its content based on the state and the props
- When trying to find a driver, the list of drivers is capped so that long lists aren't overloading the DOM

Macy - Assigned Work Summary

Tailwind CSS #45

Merged laurensha merged 2 commits into main from macy/tailwind 3 days ago

PRs:

<https://github.com/megraves/carPals/issues/10>

<https://github.com/megraves/carPals/issues/6>

meigraves commented 4 days ago

This PR resolves issue #5 to install TailwindCSS so that we can apply it in our UI development. Now when creating components, we can directly implement styling in the html. This also prevents hierarchy issues with our css, and cleans up our code because we no longer need a css file for each component.

meigraves added 2 commits 4 days ago

Macy/footer #35

Merged edwintran235 merged 7 commits into main from macy/footer 3 weeks ago

Conversation 1 Commits 2 Checks 0 Files changed 4

Create initial React project (info on repository)

Merged meigraves merged 3 commits into main from macy/react-project

Conversation 1 Commits 3 Checks 0 Files changed 1

meigraves commented on Feb 24 • edited

Created a barebones react project using vite:

- All of the react files reside in the react folder
- The README in the root carPals folder has information on how to run the project locally
- Our edits and UI design will happen in the /react/src folder

Main branch protection:

- I added a ruleset in our settings that protects our main branch
- So we must make a branch to make changes and then create a pull request
- At least one other team member must review/approve of this pull request for it to be merged

To review a PR, go to the PR's Files Changed tab, take a look, and click Review Changes in the upper right. Any questions, shoot me a text!

• Possible ranch naming convention: name/feature

We can talk about this if you all have other ideas for project organization/management. Something that makes it easy for us to work together, but also protects our code.:)



<https://github.com/megraves/carPals/pull/1>

issues:

- Ensure reusability and modularity (Component Development)
#10 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...
- Develop each core component separately (Component Development)
#9 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...
- Ensure the UI is responsive across different screen sizes (Styling & Responsiveness)
#6 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...
- Apply CSS/Tailwind styling (Styling & Responsiveness)
#5 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...
- Implement navigation between views (UI Structure & Layout)
#4 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...
- Define application layout and core components (3 / 4) (UI Structure & Layout)
#3 · meigraves opened on Mar 3 · ↗ Milestone 1 – Fr...

comments:

meigraves approved these changes 3 weeks ago

meigraves left a comment

Looks cleannnnn :)

meigraves approved these changes 4 days ago

meigraves left a comment • edited

Looks good, this is an important piece :)
Which issue is this for?

laurensha commented 4 days ago

I dont think theres an associated issue. I'll make a new one!

meigraves merged commit 6c69a30 into main 3 weeks ago

meigraves requested changes 3 weeks ago

meigraves left a comment

Make sure not to commit your node_modules :)

Add node_modules to .gitignore

sssim31 requested a review from meigraves 3 weeks ago

meigraves approved these changes 3 weeks ago

meigraves left a comment

This is awesome!!

Macy - Code & UI Explanation

Footer component using tailwind css for styling

```
1 import './footer.css';
2
3 function Footer() {
4   return (
5     <footer className="bg-teal-500 text-white py-8 px-4">
6       <div className="max-w-7xl mx-auto grid grid-cols-1 sm:grid-cols-2 md:grid-cols-4 gap-6 text-center md:text-left">
7         <div>
8           <h4 className="text-lg font-semibold mb-2">About Us</h4>
9           <p className="text-sm text-white/80">Learn more about our mission and values.</p>
10        </div>
11        <div>
12          <h4 className="text-lg font-semibold mb-2">Services</h4>
13          <p className="text-sm text-white/80">Discover what we offer to help you succeed.</p>
14        </div>
15        <div>
16          <h4 className="text-lg font-semibold mb-2">Support</h4>
17          <p className="text-sm text-white/80">Need help? Reach out to our support team.</p>
18        </div>
19        <div>
20          <h4 className="text-lg font-semibold mb-2">Follow Us</h4>
21          <p className="text-sm text-white/80">Stay connected through social media.</p>
22        </div>
23      </div>
24    </footer>
25  );
26}
27
28 export default Footer;
29
```



About Us

Learn more about our mission and values.

Services

Discover what we offer to help you succeed.

Support

Need help? Reach out to our support team.

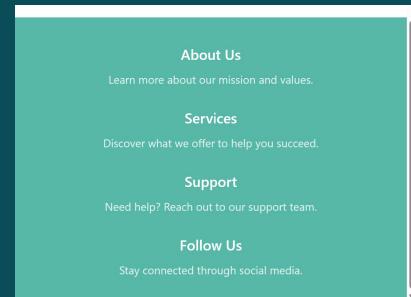
Follow Us

Stay connected through social media.

This footer component stays at the bottom of the page in comparison with the other components. It is also responsive to different screen sizes, having the text align vertically when necessary.

It adheres to the UI guidelines by sticking to the same color and font theme.

This component does not yet interact with other components – other than staying beneath them. To develop it more, I should have links/navigation that make sense for our site.



Macy - Challenges & Insights

Challenges and Insights:

- I've been struggling a lot with my workload the past two weeks. There have been some weeks where I have had to focus on other classes. In these moments, I have tried to communicate with my team to stay transparent.
- This team has been super helpful and supportive, and I am more than ready to step in and help out when this may happen to any of them.
- Another challenge we have faced as a team is getting used to React and Tailwind. I am the only member who has worked on a React project before, so I have been doing my best to encourage the team and provide resources of support such that they feel more comfortable with the process.

Future Improvements & Next Steps:

- Our page still feels a little bare. This doesn't mean we have to add more clutter, but maybe we can move things around so that it makes sense and is clear to our users.
- I think we could improve how we view the available rides. Right now we have this in a drop down, maybe if these are listed on the main page, then it would be more clear.
- Keep getting used to tailwind!!!

Edwin - Assigned Work Summary

Issues

- card for "posts" #27 · edwintran235 opened 3 weeks ago · Milestone 1 – Fr...
- Reminder Section UI Structure & Layout #20 · edwintran235 opened on Mar 3 · Milestone 1 – Fr...
- Pop Up to Set Up Routes UI Structure & Layout #13 · edwintran235 opened on Mar 3 · Milestone 1 – Fr...
- Map Showing Current Routes UI Structure & Layout #12 · edwintran235 opened on Mar 3 · Milestone 1 – Fr...
- Display mock data in UI components Mock Data Representation #8 · megraves opened on Mar 3 · Milestone 1 – Fr...
- Set up mock data in JSON format Mock Data Representation #7 · megraves opened on Mar 3 · Milestone 1 – Fr...

Pull Requests

- > Commits on Apr 4, 2022
 - Merge pull request #65 from megraves/ssim31-add-styling-link # edwintran235 authored 28 minutes ago
- > Commits on Apr 3, 2022
 - Merge pull request #55 from megraves/rides-pals-popup/lauren # edwintran235 authored yesterday
 - Css for modal # edwintran235 committed yesterday
 - Modal revamp cont. # edwintran235 committed yesterday
 - Find a Ride button modal revamp # edwintran235 committed yesterday
 - Merge pull request #54 from megraves/rides-pals-popup/lauren # edwintran235 authored yesterday
 - Finding drivers modal css # edwintran235 committed 2 days ago

Commits

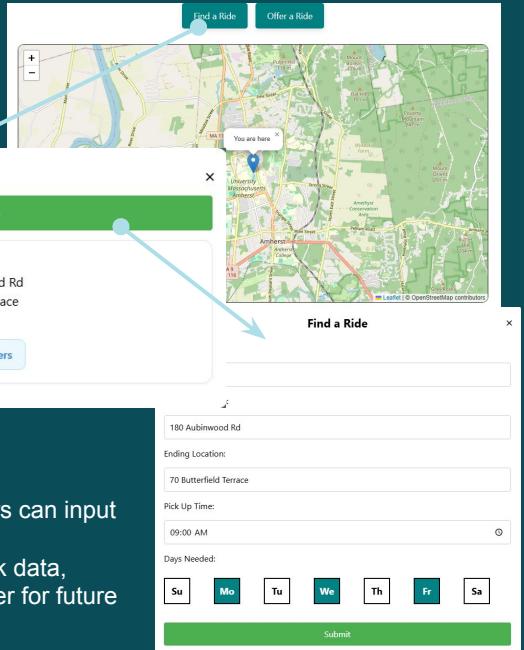
- Edwin/issue 27 #5 by edwintran235 was merged yesterday + Approved
- Edwin/issue 27 #5 by edwintran235 was merged yesterday + Approved
- Edwin/issue 27 #50 by edwintran235 was merged 3 days ago + Approved
- Edwin/issue 27 #49 by edwintran235 was merged 3 days ago + Approved
- fixed routes modal to accommodate smaller window sizes #4 by edwintran235 was merged 4 days ago + Approved
- Edwin/mock data #39 by edwintran235 was merged 4 days ago + Approved
- Edwin/issue 13 #38 by edwintran235 was merged last week + Approved
- Moved map javascript code to a seperate file #36 by edwintran235 was merged 3 weeks ago + Approved
- Fixed a bracket error #32 by edwintran235 was closed 3 weeks ago + Review required
- Map on the main page #31 by edwintran235 was merged 3 weeks ago + Approved
- Clean slate for html, javascript, and css files #29 by edwintran235 was merged 3 weeks ago + Approved

Your Routes

Add New Route +

Work
From: 180 Aubinwood Rd
To: 70 Butterfield Terrace
Time: 9:00 AM

Delete See Drivers



Find a Ride

Your Routes

Find a Ride

Work
From: 180 Aubinwood Rd
To: 70 Butterfield Terrace
Time: 9:00 AM

Delete See Drivers

180 Aubinwood Rd

Ending Location:

70 Butterfield Terrace

Pick Up Time:

09:00 AM

Days Needed:

Su Mo Tu We Th Fr Sa

Submit

Tasks:

- Create a map component
- Create a modal where users can input their information
- Created 100 users for mock data, with the role of driver or rider for future implementation

Link to closed PRs:

<https://github.com/megraves/carPals/pulls?q=is%3Apr+is%3Aclosed+author%3Aedwintran235>

Link to unclosed issue:

<https://github.com/megraves/carPals/issues/20>

Edwin - Code & UI Explanation

I created a map component that will be used throughout different pages and other components. 2 of the 3 pages we currently have has the map on it, and a lot of the modals we created uses the map too.

I have never really worked with maps before, so it was hard for me to figure out what API I should use. At first, I was going to use Google's API, but after realizing I had to pay for it, I had to try and find a new one.

Luckily, the map doesn't need to follow any strict style guidelines, since it is just a map, but I made sure to make it resizable. This way, screens of different sizes can still use the map properly.

Since it is just a map component, I don't have a flow representation of how it interacts with other components, however, many other components interact with it, as shown in other slides

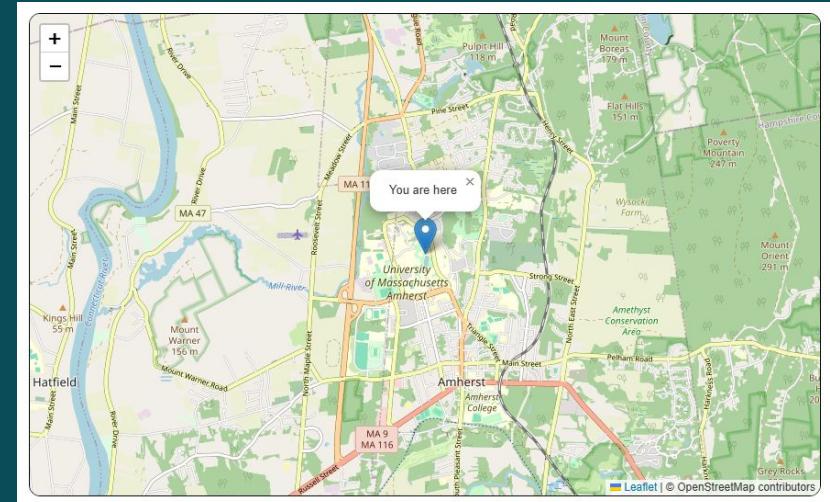
Edwin - Code & UI Explanation

```
<div className="map-wrapper-plan">
  {showPageMap && (
    <MapComponent mapId="plan-map" className="plan-container" />
  )}
</div>
<RoutesModal
  isOpen={isModalOpen}
  closeModal={() => {
    setModalOpen(false);
    setShowPageMap(true);
  }}
  mode={modalMode}
  setShowPageMap={setShowPageMap}
/>
```

App.tsx

```
const MapComponent: React.FC<MapComponentProps> = ({  
  mapId = "map",  
  className = "map-container",  
}) => {  
  useEffect(() => {  
    const map = L.map(mapId).setView([42.3601, -71.0589], 13); // Default to Boston  
  
    // Load OpenStreetMap tiles  
    const tileLayer = L.tileLayer(  
      "https://s.tile.openstreetmap.org/{z}/{x}/{y}.png",  
      {  
        attribution: "&copy; OpenStreetMap contributors",  
        detectRetina: true, // Higher resolution tiles  
        maxZoom: 18,  
      }
    );
```

MapComponent.tsx



Edwin - Challenges & Insights

Challenges and Insights:

- It was hard balancing exams and other coding assignments on top of this project
- I should have started working on this sooner so I wouldn't have to put as many hours in it later

Future Improvements & Next Steps:

- We should work on getting the database up and running so that we can get users and actual data in, rather than just a json of mock data
- Something we can improve on is the setting up routes modal. It looks good now and is operational, but I believe it can be better, since it is a staple for our website. Having it verify the location would be very helpful

Lauren - Assigned Work Summary

Issues

- Navigation between pages
#43 - laurenshea opened 4 days ago
- create button for profile
#26 - laurenshea opened 3 weeks ago · Milestone 1 - Fr...
- My Pals feature
#25 - laurenshea opened on Mar 4 · Milestone 1 - Fr...
- Tokens feature
#24 - laurenshea opened on Mar 4 · Milestone 1 - Fr...
- "My Rides" section
#23 - laurenshea opened on Mar 4 · Milestone 1 - Fr...

PRs

- Rides pals popup/lauren
#69 by laurenshea was merged yesterday · Approved
- css styling
#67 by laurenshea was closed yesterday · Review required
- Rides pals popup/lauren
#66 by laurenshea was merged yesterday · Approved
- Ride pals buttons/lauren
#64 by laurenshea was merged 2 days ago · Approved
- temporary action button component
#61 by laurenshea was closed 2 days ago · Review required
- combined offer ride and find a ride into one page
#47 by laurenshea was merged 3 days ago · Approved
- navigation between pages
#42 by laurenshea was merged 4 days ago · Approved

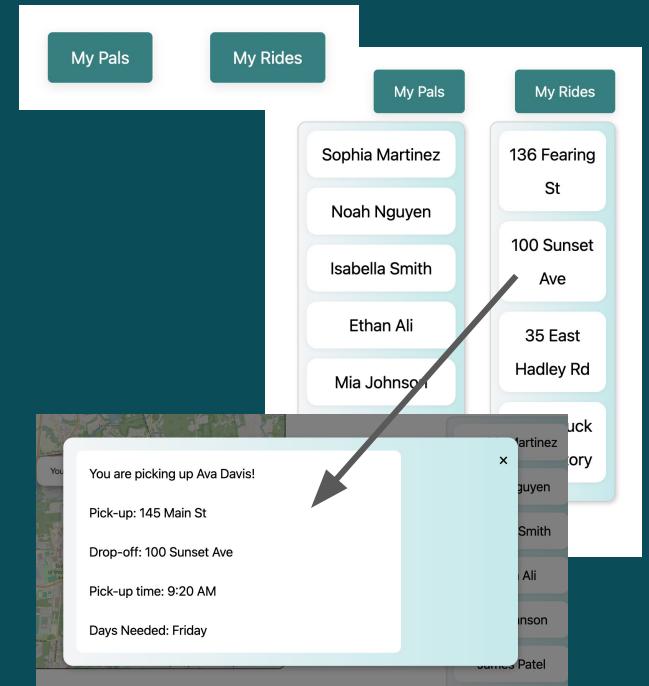
Specific Tasks:

- created button for profile
- implemented navigation between separate pages
- created drop-down component for rides and pals on home page
- maintained consistent styling
- put certain functions inside components for reusability (i.e, ActionButton)

**** issue #24 - tokens feature** was not implemented in this milestone because we are unsure if that is a feature we want to continue with / include in our application at all

Commits

- Commits on Apr 4, 2025
 - Merge pull request #60 from megraves/sofia-issue18 ·
laurenshea authored 2 hours ago
- Commits on Apr 3, 2025
 - resolve conflicts
 laurenshea committed yesterday
 - Merge pull request #58 from megraves/edwin/issue-27 ·
laurenshea authored yesterday
 - popup box for drop down list
 laurenshea committed yesterday
 - css styling
 laurenshea committed yesterday
 - resolving conflicts
 laurenshea committed yesterday
 - Merge pull request #55 from megraves/edwin/issue-27 ·
laurenshea authored yesterday



Link to closed PRs:

<https://github.com/megraves/carPals/pulls?q=is%3Apr+is%3Aclosed+author%3Alaurenshea>

Link to unclosed issue:

<https://github.com/megraves/carPals/issues/24>

Lauren - Code & UI Explanation

```
return (
  <>
    <div className="ride-list-button">
      <ActionButton
        label="My Rides"
        action={() => setRidesOpen((prev) => !prev)}
        id="my-rides"
      />
      {ridesOpen && <ul className="rides-dropdown">{renderRidesList(rideData)}</ul>}
    </div>

    <div className="pal-list-button">
      <ActionButton
        label="My Pals"
        action={() => setPalsOpen((prev) => !prev)}
        id="my-pals"
      />
      {palsOpen && <ul className="pals-dropdown">{renderPalsList(palsData)}</ul>}
    </div>

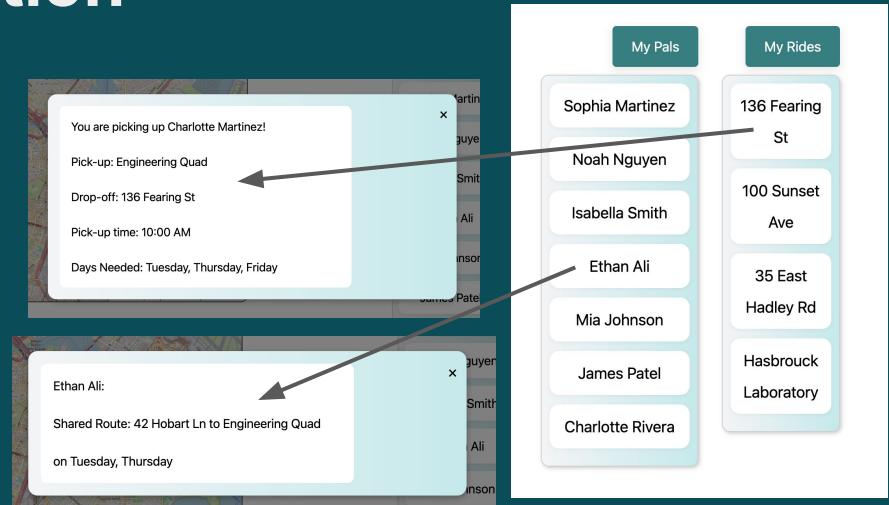
    <DropDownModal
      showModal={isModalOpen}
      closeModal={closeModal}
      content={dropModalContent}
    />
  </>
);

};

return (
  <Router>
    <Routes>
      {/* homepage */}
      <Route
        path="/"
        element={
          <div className="home-page">
            <Header />
            <div className="home-content">
              <div className="rides-pals-button">
                <DropDown/>
              </div>
              <div className="map-wrapper-home">
                <MapComponent mapId="home-map" className="home-container" />
              </div>
            </div>
            <Footer />
          </div>
        }
      />
    </Routes>
  </Router>
);
```

DropDown.tsx

App.tsx



Lauren - Code & UI Explanation

I created a component **DropDown.tsx** that uses the **ActionButton** and **DropDownModal** components to render a drop down list of buttons pertaining to a users saved rides or a users friend list. The component features a function to map rider information to a list, a function to toggle a drop down, and a modal message to appear on click. The messages contain various information regarding route details. This code utilized the **ActionButton** component, which is a reusable button component that handles an action on click. For this milestone, we are utilizing mock data, so the **DropDown** component fetches mock data from a JSON file to use as input to create rider information.

I also created the **DropDownModal** component that is used within **DropDown.tsx**. The **DropDownModal** component creates the box of information seen when a pal or a ride is clicked. This component is used in the **DropDown** component which is then called in **App.tsx** to be rendered on the homepage.

Challenges:

I faced challenges using React, as this is my first time really working with it and I am getting used to the idea of components to be reusable features. I struggled to figure out how to rewrite code to be used as functions within components to then be used in **App.tsx**

Lauren - Challenges & Insights

Overall, I am still navigating React and getting comfortable with using it and working with reusable components. In particular, I found myself writing code inside App.tsx at first when it should be within a component, which I later fixed. Another example is that Edwin and I had made separate components for individual buttons before realizing that one 'ActionButton' component could be reused by calling a different function to be handled when clicking the button. We resolved that issue by making a single component.

Working collaboratively with branches on GitHub can also be a bit of an obstacle. Sometimes we ran into the issue of conflicts within files that had to be resolved and figuring out which changes to accept when resolving could be confusing at times.

In later milestones, I think a simple chat feature could maybe be implemented. We had discussed the idea that users should be able to communicate with each other within the app so we should implement a feature to enable this.

Sofia - Assigned Work Summary

Assigned Issues

is:issue state:open author:ssim31

Open	Closed
6	1

Author

- [Driver/Rider Rating and Review System](#) UI Structure & Layout
#19 · ssim31 opened on Mar 3 · Milestone 1 – Fr...
- [Create an "Invite Friends" component](#) UI Structure & Layout
#18 · ssim31 opened on Mar 3 · Milestone 1 – Fr...
- [Refining Ride Listings](#) UI Structure & Layout
#17 · ssim31 opened on Mar 3 · Milestone 1 – Fr...
- [Ensure consistent styling](#) Styling & Responsiveness
#16 · ssim31 opened on Mar 3 · Milestone 1 – Fr...
- [Ride Request Confirmation](#) enhancement UI Structure & Layout
#15 · ssim31 opened on Mar 3 · Milestone 1 – Fr...
- [Create Profile Page](#) enhancement UI Structure & Layout
#14 · ssim31 opened on Mar 3 · Milestone 1 – Fr...

Commits

main

- [implemented issue 17 + edits to issue 13/14](#)
#62 opened 41 minutes ago by ssim31 · Review required → Milestone 1 – Fr...
- [implemented issue 17](#)
#61 by ssim31 was closed 43 minutes ago · Review required → Milestone 1 – Fr...
- [implemented issue 18](#)
#60 by ssim31 was merged 1 hour ago · Approved → Milestone 1 – Fr...
- [issue 14: profile page info](#)
#53 by ssim31 was merged 2 days ago · Approved → Milestone 1 – Fr...
- [small edits made to css files for styling](#)
#52 by ssim31 was merged 2 days ago · Review required → Milestone 1 – Fr...
- [edits made for issue 15](#)
#48 by ssim31 was closed 3 days ago · Review required → Milestone 1 – Fr...
- [added Ride Confirmation popup](#)
#46 by ssim31 was merged 3 days ago · Approved → Milestone 1 – Fr...
- [Add logo and name to nav bar/header](#) enhancement
#37 by ssim31 was merged 3 weeks ago · Approved → Milestone 1 – Fr...
- [Update README.md to include necessary information](#)
#2 by ssim31 was merged on Mar 4 · Approved

Pull Requests

- Commits on Apr 2, 2020
 - [added mock data and styling to profile page](#)
ssim31 committed 2 days ago
 - [small edits made to css files for styling](#)
ssim31 committed 3 days ago
- Commits on Mar 31, 2025
 - [Merge branch 'main' into sofia-issue15](#)
ssim31 committed 4 days ago
 - [added Ride Confirmation popup](#)
ssim31 committed 4 days ago
- Commits on Mar 14, 2025
 - [Add node_modules to .gitignore](#)
ssim31 committed 3 weeks ago
 - [Add logo and name to nav bar/header](#)
ssim31 committed 3 weeks ago

Specific Tasks Completed:

- Added info to README.md
- Added logo/name to nav bar
- Added a ride confirmation
- Maintained consistent styling
- Added necessary components to Profile Page (Profile Info, Ride History, Invite Friends)
- Added filter/refine component to list of available rides
- Enhanced 'Find a Ride' button so users can add multiple rides
- Implemented 'Offer a Ride' functionality

ssim31 3 minutes ago

Collaborator Author ...

No longer implementing this for Milestone 1... not enough time... might consider implementing it during the next Milestone (time permitting)...

Assigned Issue not closed in Milestone 1:

Driver/Rider Rating and Review System

UI Components

Profile Info
Name: John Doe
Email: john.doe@example.com
Phone: (123) 456-7890

Your Routes
Add New Route +
No routes yet. Add one to get started!

My Rides
Boston to Amherst
Boston carpool work
2025-04-01 at 9:00 AM
Amherst to Boston
Amherst carpool work
2025-04-01 at 9:00 PM

Offer a Ride
Start Location
End Location
Departure Time

Seats Available
1
Vehicle Type
Select vehicle
Days Available
Monday Tuesday Wednesday
Thursday Friday Saturday

Map view: You are here

Invite Friends
Join me on CarPools for sustainable commuting!

Next Slide...

Sofia - Assigned Work Summary

The diagram illustrates the CarPals application's user interface components and their interactions:

- Home Screen:** Features three main buttons: Home, Plan a Ride, and Profile.
- Plan a Ride - Confirm Route:** Shows route details: From: Amherst, To: Boston, Time: 10:00 AM, Days: Monday. Buttons include Save Route and Find Rides.
- Plan a Ride - Nearby Drivers:** Lists nearby drivers: Ava Kim (24 miles away, Departure: 8:30 AM) and Liam Chen (3 miles away, Departure: 10:00 AM). A dropdown menu for distance filtering includes: Any distance, Within 5 miles, Within 10 miles, and Within 25 miles.
- Plan a Ride - My Rides:** Displays two ride history entries: Boston to Amherst (2025-04-05 at 9:00 AM) and Amherst to Boston (2025-04-06 at 3:00 PM).
- Profile Screen:** Shows Profile Info (Name: John Doe, Email: john.doe@example.com, Phone: (123) 456-7890) and a section for Invite Friends.
- Ride Request Confirmation:** A modal window asking "Request ride with Ava Kim?" with options to Confirm or Cancel.
- Ride Request Success:** A green banner at the bottom left stating "Ride Requested Successfully!" with a checkmark icon.
- Offering Rides Modal:** A code snippet for the OfferingRidesModalProps interface and its implementation. It handles opening/closing the modal, restoring the map, and handling success callbacks.
- Offer a Ride Screen:** A map-based form for offering a ride. Fields include Start Location, End Location, Departure Time, Seats Available (set to 1), Vehicle Type (Select vehicle), and Days Available (checkboxes for Monday, Tuesday, Wednesday, Thursday, Friday, Saturday).
- Ride Offer Submission Confirmation:** A green banner at the bottom right stating "Ride offer submitted successfully!"

Sofia - Code & UI Explanation

UI Enhancements:

- Added application logo/name to nav bar
- Maintained consistent styling across all components
- Implemented three key sections for Profile Page: Profile Info Card, Ride History Table, Invite Friends Module
- Enhanced 'Find a Ride' by adding option to create multiple rides
- Implemented complete 'Offer a Ride' workflow
- Added ride confirmation dialog with success states
- Built interactive filter component for ride results
- Dynamic updating of available rides based on criteria

User Flow:

1. Finding Rides: User → Clicks 'Find a Ride' button → Creates a ride → Applies filters → Views results → Selects driver → Confirms → Receives success feedback
2. Offering Rides: User → Clicks Offer Ridebutton → Completes form → Submits → Sees confirmation → Receives success notification

Style Adherence:

→ Flexbox grid layout, Applied color schema, elevated cards, easy to use components

Interaction: When a user selects "Find a Ride" from RoutesModal, it opens the FindingRidesModal. When a user selects "Offer a Ride," it opens the OfferingRidesModal. Sends confirmation details back to RoutesModal once a user selects and confirms a ride.

Sofia - Challenges & Insights

- Getting OfferingRidesModal to work was a bit challenging because it needed to connect with multiple parts of the application → had to ensure that RoutesModal managed the state for all routes...
- Adding filters (distance, name, time) required dynamically updating the list of available rides based on user input, which was a bit challenging.
- Managing all the work for this class + 3 other cs classes has been challenging, and I didn't have as much time to work on my issues as I would have liked...
- In later milestones, I would like to focus on the Driver/Rider Rating and Review System, because I think that would be valuable. I wasn't able to complete that issue during this milestone.
- Overall, working in a collaborative team environment has been great. My teammates and I work well together.

Future Improvements & Next Steps

Proposals for future features and optimizations:

- Simple chat feature so riders and drivers can communicate with each other
- Driver/Rider Rating and Review system for safety
- Enhance setting up routes modal
- Location verification

Next steps:

- Start working on the next milestone and the backend...