
LEAPLifts User Manual

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Foreword

Thank you for using LEAP Lifts. This project was a collaboration between the Lafayette College Computer Science Senior Project class and the LEAP campus organization. The project was made possible by the hard work of Ezekiel Elin, Nicole Kaplan, Garrett Rademacher and Natalie Sampsell. Special thanks to Professor Joann J. Ordille Ph.D., and Evan Savage for the opportunity to work on this project

Website

Homepage

When the user first visits the site, they will be brought to the main homepage. From here, they can access all other pages via the toolbar at the top of the page, or click either Drivers or Riders. Clicking either of these buttons will take the user to a page where they can create a trip request, which will be discussed in more detail later. Before the user can take any action, however, they must either create an account or login. Logging in is handled by the CAS login service.

Dashboard

The dashboard contains the main functionality of the site, and displays all of the user's trip requests, and contains a button at the top for the user to create a new trip request. All trip requests made by the user will be sorted on the dashboard, confirmed trips will be displayed first, followed by processed trips, then processing trips. All of these trips are sub-sorted by date, with the closest trips being displayed first. Once the user has any kind of trip request, it will appear on the dashboard as described above.

Trip Details

Clicking on a trip request will take the user to a page with detailed information about their trip. This page will display either who is driving the user, or who is riding with the user, depending on which role the user selected when creating their trip request. Following this, some information about the person who will be riding with them is also displayed, including their name, picture, and contact information so the user can contact the other person to confirm travel details. Under this, the user is given the broad details of their travel, and a map of the trip, which includes waypoints for all locations on the user's route. The locations shown are modified for each user to display only the

information they need to know for the trip. Also on this page are buttons offering a couple of options to the user. First, if the user has not confirmed the trip pairing, they can either confirm or reject the match using the appropriate buttons. Before the user confirms the trip, they should contact the other user and confirm all trip details and times. If the user confirms the match, then it will be up to the other user to confirm as well. If the user chooses to reject the pairing they will be presented with several options mentioned below. If both users have confirmed the trip, then this section will be filled with a message saying that the trip is confirmed. If the user would like to cancel their trip, or modify any details of the trip, they can cancel the trip using the button provided.

Blocking Options

If the user is unhappy with the match they have been given, the user can reject the match if they do not want to confirm it. Unlike the “Cancel Trip” button this button should be used by the user if they still want to take their trip but do not like the match they were given. We have provided the user with three different reasons why they would block a user. The first reason that a user can choose is that they do not want to ride with the person they are matched with. If they select this, the match will be deleted and the blocked user will be indefinitely put on the blocker’s blocked user list. This block will remain unless the blocker decides to unblock the person on their settings page. The other two reasons to block someone are that you can’t agree on a time to travel or you would prefer picking someone up at a different location. In both of these cases the match is again deleted and the blocked user is put on the blocker’s blocked user list on their settings page. However, in both of these cases rather than the block lasting indefinitely, the block is disbanded after the last possible travel date of the trip. As noted previously, the blocker can also unblock the user at an earlier time by doing so on the settings page.


New Trip Request

When the user requests a new trip, they will be taken to a page where they can fill in all the details of their trip for it to be processed. First, they will have to select whether they will be driving or riding. Then, they will select their start and end locations. One of these boxes is automatically filled with Lafayette College, and the other box is automatically filled with their preferred destination, taken from their user settings (if the user has completed this field). This second location box also allows users to type in a different location they would like to travel to or from, instead of their default. While entering a location, Google’s map services will provide addresses or locations for the user to select from, to ensure the address is valid. In between these boxes is a button to swap the two boxes, allowing the user to travel both to and from Lafayette College. After that, the user must select a range of travel dates. When clicked, each box will provide a popup form for the user to select a valid date from. These two dates form the date range that the user can travel during. After selecting a date range, the user will be prompted to fill in a deviation limit, with a default value being pulled from the user’s settings page, if it exists.

The deviation limit is the amount of minutes that the user can travel out of their way in order to find a carpool. After filling out all of this information, the user can then click the submit button to add their trip request to the system for processing.

Trip Status


There are three different trip status that trip requests can be in. They each appear differently on the dashboard. The first status is “Processing Trip”. This status means that the user’s request has not yet been matched with another user. This status does not require any action from the user. It will look like the following on the dashboard.

 Processing Trip

Trip from Lafayette College to 54 Totten Dr
Possible Travel Days: May 20, 2020

Cancel Trip

The second type of trip status is a “Pending Trip”. At this stage two users have been matched to take a trip together but at least one user has not yet confirmed the trip. The users can click the “Trip Details” button to confirm the trip and acknowledge that they have contacted the other person, see the route of the trip, or reject the match. Both users must confirm the trip for it to be given a confirmed trip status. The following is what a pending trip looks like on the dashboard.

 Pending Trip


Action Needed

Trip from Lafayette College to 54 Totten Dr
Common Travel Days: May 13 - May 16, 2020

Trip Details

Cancel Trip

The final type of trip status is “Confirmed Trip”. A trip reaches this status after both the rider and driver have confirmed the trip. Once this status is reached there are no further actions users have to take on this trip. They can still press the “Trip Detail” button which will take them to the Trip Details page explained above. A confirmed trip will look like the following on the dashboard.

 Confirmed Trip

Trip from Lafayette College to 54 Totten Dr
Common Travel Days: May 13 - May 16, 2020

Trip Details

Cancel Trip

Settings

The settings page is filled with information the user submits on the onboarding page (see below), and also allows the user to supply a few extra pieces of information. The settings page allows users to upload a profile photo, set their preferred first name, preferred email, phone number, default location (the default location is the location that the user will be travelling either to or from most frequently), and default deviation limit (again, the deviation limit is how far a user is willing to travel off the most direct route for carpooling). The settings page also contains a list of users that the user has blocked. However, this is only displayed if the user has at least one blocked user. From here, the user can also choose to unblock any users they have blocked previously.

Onboard

When the user first creates an account, they will be taken to an onboarding page where they are prompted for basic information including a photo of the user, the user's preferred first name, preferred email (if it's different from their school email), and the user's phone number. All of this information can be changed at any time through the settings page. If the user decides to skip the onboarding process, any time they request a page which could use any of this information, they will be instead taken back to the onboarding page to complete the onboarding process.

About

The about page contains a brief description of the project and its goals.

Help

The help page contains a list of frequently asked questions that have been created to help the user with any basic problems they might face when using the website. The help page also contains a contact form for the user to contact the owners of the website. To use this, the user must fill out their email address, the subject of the email, and a field asking for a detailed description of their problem. This is then sent to the contact email specified in the website.