Tecnológico de Costa Rica

San José Campus

Carpooling User Manual

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Contents

1   Introduction

Carpooling is a program designed to facilitate ride-sharing within the same institution. Users can post trips they plan to take and invite others from their institution to join them, creating a convenient and efficient travel experience. This manual provides a step-by-step guide to using the Carpooling program effectively.

2   System Requirements

Software:

- Operating System: Windows, macOS, or Linux

- Java Runtime Environment (JRE) 8 or higher

- Browser: Compatible with modern web browsers (e.g., Chrome, Firefox, Safari)

- Internet connection

Hardware:

- Minimum: 4GB RAM, 1GHz processor

- Recommended: 8GB RAM, 2GHz dual-core processor
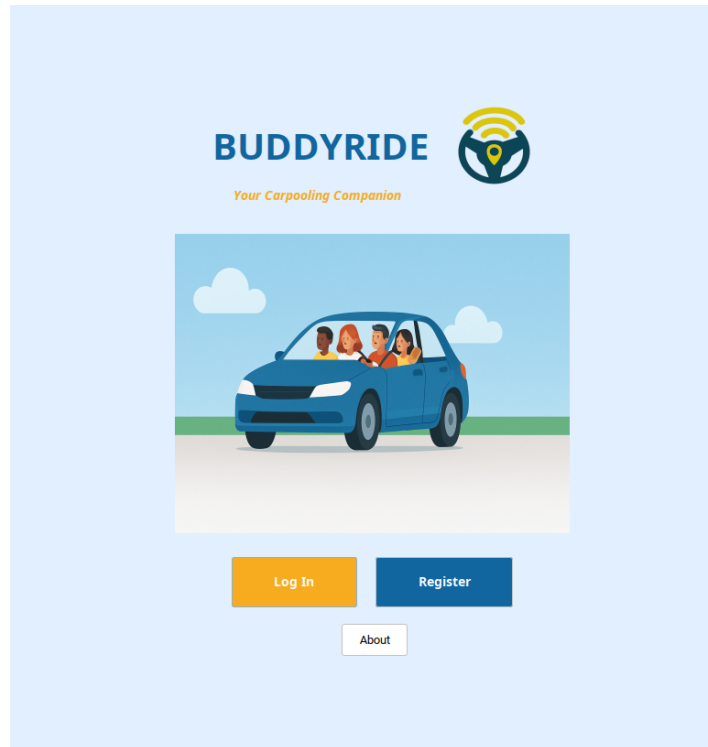
3   Installation Guide

Follow these steps to install the Carpooling program:

1. Visit the GitHub repository:

2. Clone or download the repository to your local machine.

3. Navigate to the directory `app/dist`.

4. Locate the `.jar` file.

5. Ensure you have Java Runtime Environment (JRE) 8 or higher installed.

6. Run the `.jar` file to launch the program.

4   Getting Started

4.1   Creating an Account

1. Open the program and click on the **Register** button.

2. Fill in your personal details in the registration form.

3. Make sure to check the box to accept the Terms of Service (ToS).

4. Complete the registration process by clicking on the **Register** button.

4.2 Logging In

1. Enter your username and password on the login screen.

2. Click the **Log In** button.

3. After you have logged in, you will be presented with the choice of going to your Driver or Passenger profile. Choose whichever one you'd prefer, since you'll be able to switch later.

WELCOME BACK!

Username: [   ]

Password: [   ]

☐ Show Password

Need to create an account?

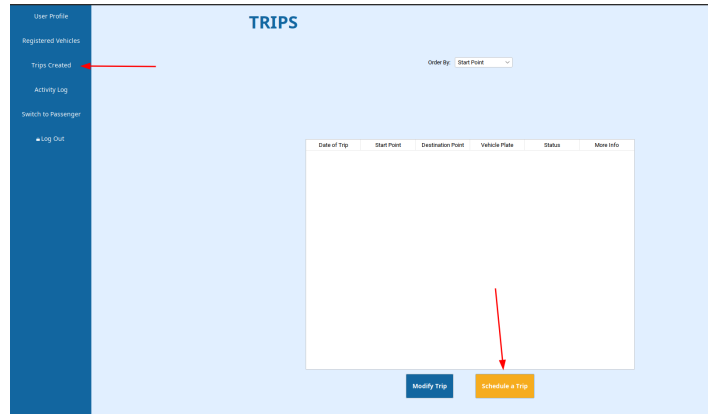**Log In**

Passenger

Driver

5 Using the Program

5.1 Posting a Trip

1. In the sidebar, click on the **Trips Created** option.

2. Click on the **Schedule a Trip** button.

3. Fill in the required information about your trip.

4. Once you are done with the first screen, now its time to add a route to your trip.

5. First select the country in which you are doing this trip. Next, add your starting and destination points. Once that is done, make sure to add at least one stop from the map. Just click a spot on the map and the stop will be added to the list. If you prefer, you can use the search bar at the top of the map to look for a certain place.

6. Once you have added a few stops you will notice that you can use the up and down arrows to arrange the stops however you want. You can also use the blue pin to show that stop again on the map. The red X is to get rid of a stop point.
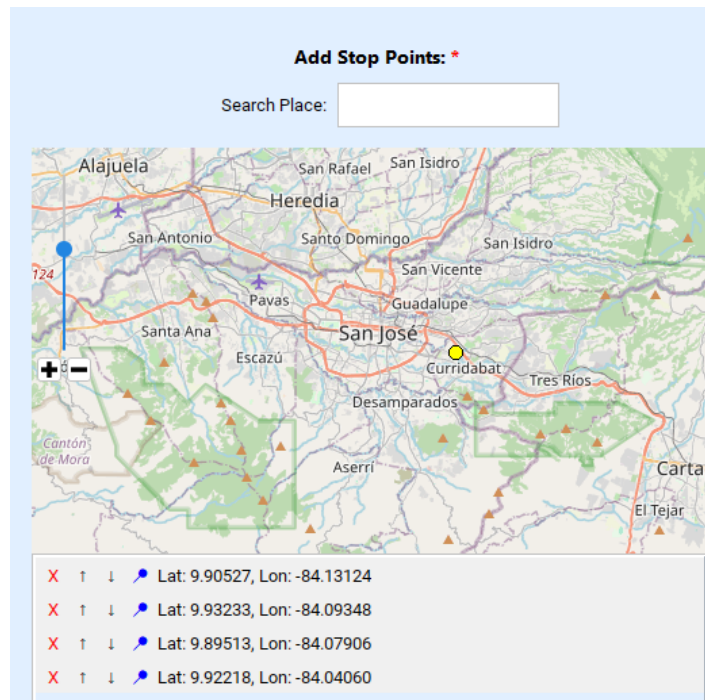
5.2 Searching for Trips

The **Search Trips** section is divided into three parts:

- **Search Trip:** Lists all available trips that you can join. You can narrow your search by adding a time of arrival as well as a destination point.
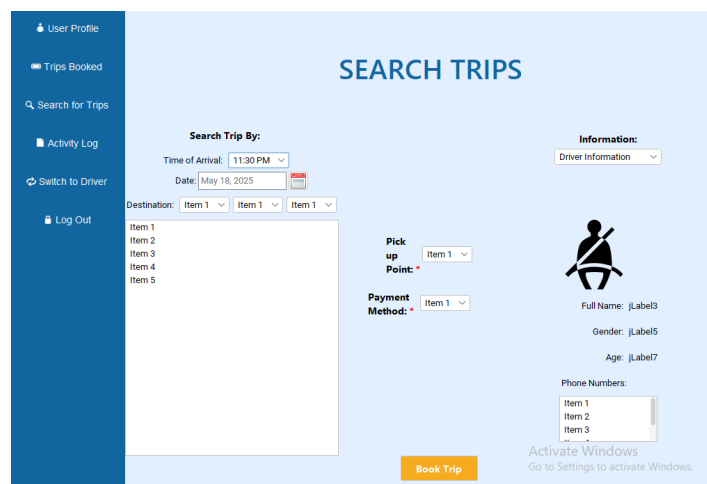
- **Information you must fill out:** Once you've chosen a trip from the list, before being able to book it you must first add the pick up point you'll want to board in and the method in which you will pay the driver if they are charing a fee

- **Information about the trip:** You can look at these details before deciding to book the trip. You can look at the driver's information, the vehicle information, the stops that will be made during the trip and the times and cost.

5.3 Updating Your Profile

(a) Click on the User Profile icon on the side menu. This will take you to your profile.

(b) Then, if you want to add a phone number, register in another institution or add an email you can click the buttons on the top right. If you want to delete your account click the red button at the bottom. If you want to modify your profile, click the yellow button.

5.4 Admin Features

The Carpooling application includes a dedicated section for administrators, offering tools to monitor activity, visualize statistics, and manage data.

(a) Log in using an administrator account.

(b) Access the admin panel to explore the following features:

- **Graphics Dashboard:**
  - **User Statistics:** Displays counts of drivers and passengers, categorized by gender and institution.
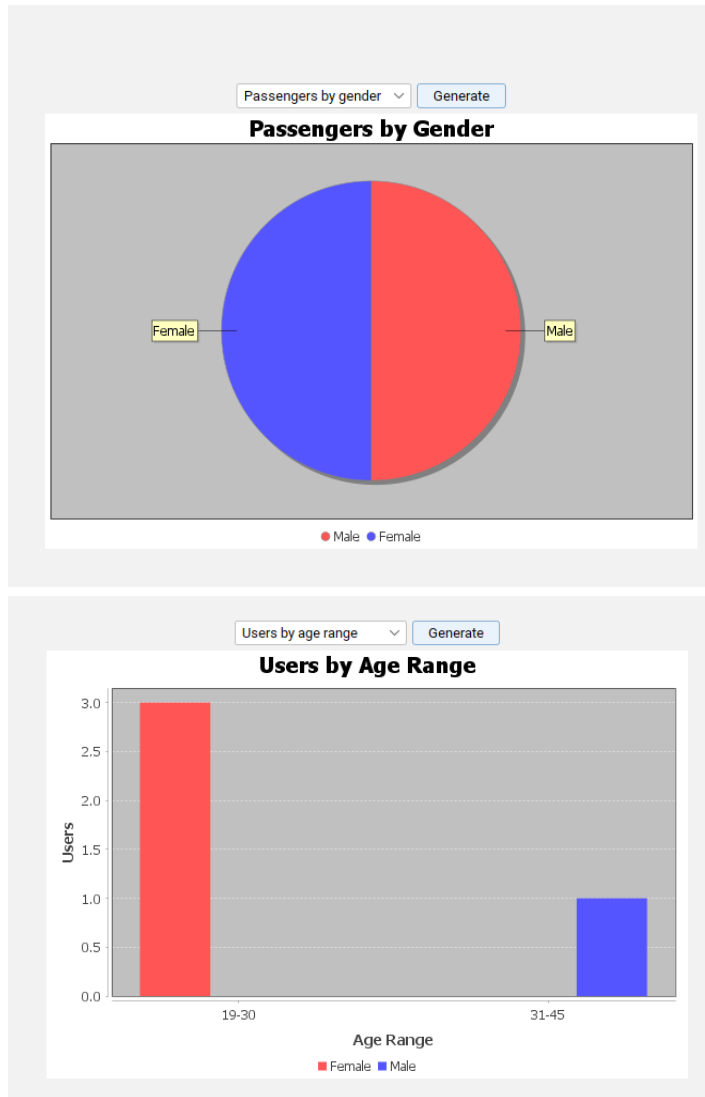
– **Creating, updating or eliminating the base choices a user can pick:**
   * All the combo boxes a user can pick a choice in can be modified by the administra-
     tor. Some examples are the instutitions and their email domains, users, genders,
     currencies, etc.

ID	Nombre
5	Cash
1	Credit Card
2	Debit Card
3	PayPal
4	Sinpe Movil

Nombre: [ ] [Guardar] [Actualizar] [Eliminar]

First Name [ ]   Type of Identification [ID Card ▾]   [Save]
Second Name [ ]   Identification [ ]   [Update]
First Surname [ ] Gender [Female ▾]   [Delete]
Second Surname [ ]

Date of Birth [ ] [...]

Phones
[ ]

Emails
[ ]

Phone [ ]
Type Of Phone [Fax ▾]

Email [ ]
Role [Passenger ▾]

Domain of the email [▾]

Photo

ID	Name
2	Ada Lovelace
1	Carmen Hidalgo
4	Lucas Smith
3	Ximena Hidalgo

– **Top Rankings:**
  * Top 5 drivers by performance or trip count.
  * Top 5 most active users.
  * Top 5 popular destinations.
  * Average trip cost per user.
  * Number of new users in the last three months.

Query [Top drivers by service count ▾]

Limit [5]

[Query]

Rank	Driver	Services
1	Carmen Hidalgo	15

Amount of queried records: 1

	Rank	Driver	Average Revenue	Currency
1		Carmen Hidalgo	7000.00	Mexican Peso
2		Carmen Hidalgo	1770.00	Colones
3		Carmen Hidalgo	5.25	US Dollar
4		Carmen Hidalgo	0.00	

Amount of queried records: 4

- **Log Management:** Provides a full list of everything that has been done in the app.

ID	Schema	Table	Field	Previous Val...	Current Value	Creator	Creation Date	Modifier	Modification...
26	carpooling_a...	PERSON	type_identifi...	2	1	root@localh...	2025-06-12	root@localh...	2025-06-12
25	carpooling_a...	PERSON	date_of_birth	1980-12-25	1990-12-20	root@localh...	2025-06-12	root@localh...	2025-06-12
24	carpooling_a...	PERSON	second_sur...		Pérez	root@localh...	2025-06-12	root@localh...	2025-06-12
23	carpooling_a...	PERSON	first_surname	Skywalker	Smith	root@localh...	2025-06-12	root@localh...	2025-06-12
22	carpooling_a...	PERSON	second_name		Manuel	root@localh...	2025-06-12	root@localh...	2025-06-12
21	carpooling_a...	PERSON	first_name	Luke	Lucas	root@localh...	2025-06-12	root@localh...	2025-06-12
20	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
19	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
18	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
17	carpooling_pu	STATUSXTR...	status_id	2	3	root@localh...	2025-06-12	root@localh...	2025-06-12
16	carpooling_pu	STATUSXTR...	status_id	2	3	root@localh...	2025-06-12	root@localh...	2025-06-12
15	carpooling_pu	STATUSXTR...	status_id	2	3	root@localh...	2025-06-12	root@localh...	2025-06-12
14	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
13	carpooling_pu	STATUSXTR...	status_id	1	2	root@localh...	2025-06-12	root@localh...	2025-06-12
12	carpooling_pu	STATUSXTR...	status_id	1	2	root@localh...	2025-06-12	root@localh...	2025-06-12
11	carpooling_pu	STATUSXTR...	status_id	1	2	root@localh...	2025-06-12	root@localh...	2025-06-12
10	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
9	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12
8	carpooling_a...	CURRENCY	name	Peso	Mexican Peso	root@localh...	2025-06-12	root@localh...	2025-06-12
7	carpooling_a...	CURRENCY	name	Mexican Peso	Peso	root@localh...	2025-06-12	root@localh...	2025-06-12
6	carpooling_pu	STATUSXTR...	status_id	1	4	root@localh...	2025-06-12	root@localh...	2025-06-12

Refrescar

- **Table Panel:**
  - Add or delete entries in different database tables.
  - Grant or revoke administrator access to users.