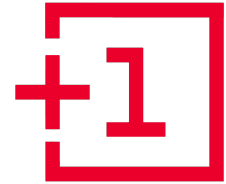


REPORT

Heckermen



So, what's this about?

Cab sharing is a very popular mode of commute and has been prevalent in IIIT for quite a period of time. Currently, cab sharing requests are made and managed on the Facebook group [[Cab Sharing@IIIT-H](#)].

What's wrong with the existing system?

However, the page does a bad job at organizing. The issues includes:

- Unnecessary clutter of notifications.
- Repetitive requests from multiple people for the same trip, at the same time.
- Inconsistent distribution of 'reach' for the posts.
- Non chronological sorting of posts in the group's home view.

What can we do about it?

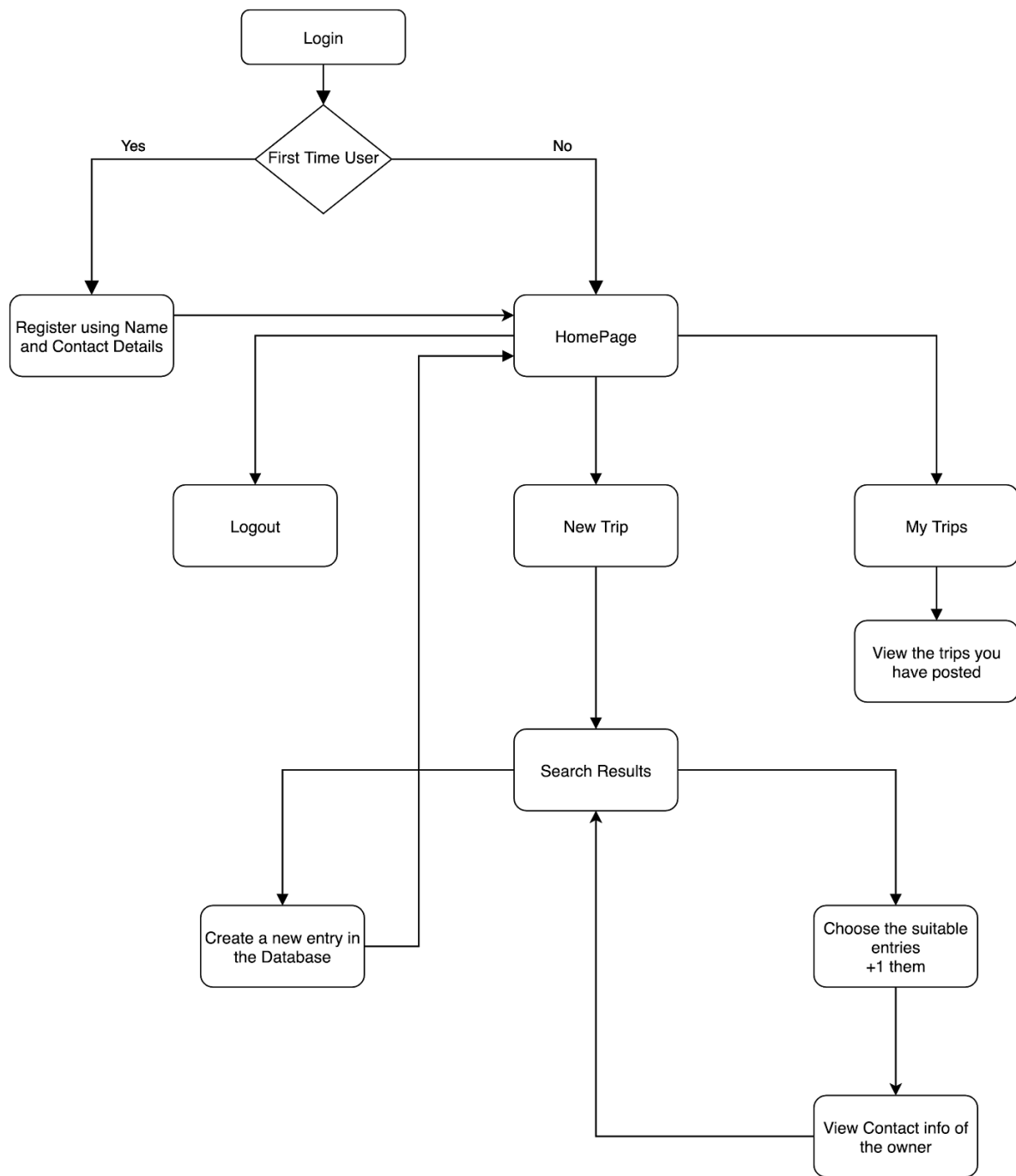
Introducing **plusOne**.

plusOne aims at easing and making the process of Cab Sharing between two places much more organized. Users can provide journey details and obtain a list of groups travelling at around the same time as theirs and to the same destination. If they're not willing to travel with any of the recommended clusters or if none are available, a new cluster can be created. plusOne recommends the most suitable clusters for your journey based on various factors. To join a cluster, the user may '+1' a trip, whereby they get the contact details of the 'host' of the trip for further communication. If the user themselves is a host, they may opt to stop accepting requests any time. This is useful if the party is full or if their plans have changed. This will stop their cluster from appearing on other users' search results. plusOne acts as a platform between people trying to share their expenses and helps them communicate among each other.

Check out the web app at <https://heckermen-plus-one.herokuapp.com/>.

[Github Repo - <https://github.com/HackathonUG2k19/Heckermen>]


A Functional Overview of the Project



Details

Authentication

The first step is to login using your IIIT credentials. If it is your first time, you'll be entering the registration stage.



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY
HYDERABAD

Central Authentication Service (CAS)

Login

Email

Password

[? Change password](#)

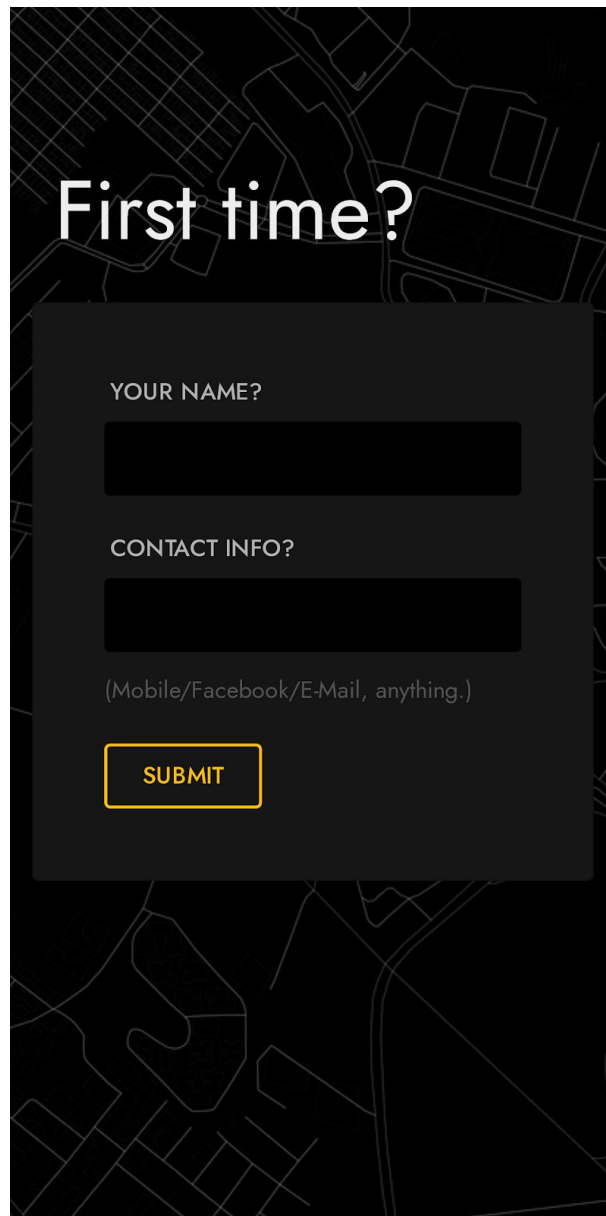
Note:

1. Since CAS does not support Single Sign-Out as of now, please make sure you logout from all the applications and close the browser window when you have finished using the system.
2. IT Support will NEVER ask for your password and/or any other personal information. Please do not reply to any such mail and report them immediately to IT support
3. It is recommended you choose a strong password since this single password is your gateway to all the computing resources at IIIT-H

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Registration

Strictly for first-timers. Enter your name and contact information so that you can be informed if anyone is interested in joining your cluster.

A registration form overlay on a dark background with a faint map pattern. The form is titled "First time?" and contains two input fields: "YOUR NAME?" and "CONTACT INFO?". Below the second field is a note: "(Mobile/Facebook/E-Mail, anything.)". A yellow "SUBMIT" button is at the bottom.

First time?

YOUR NAME?

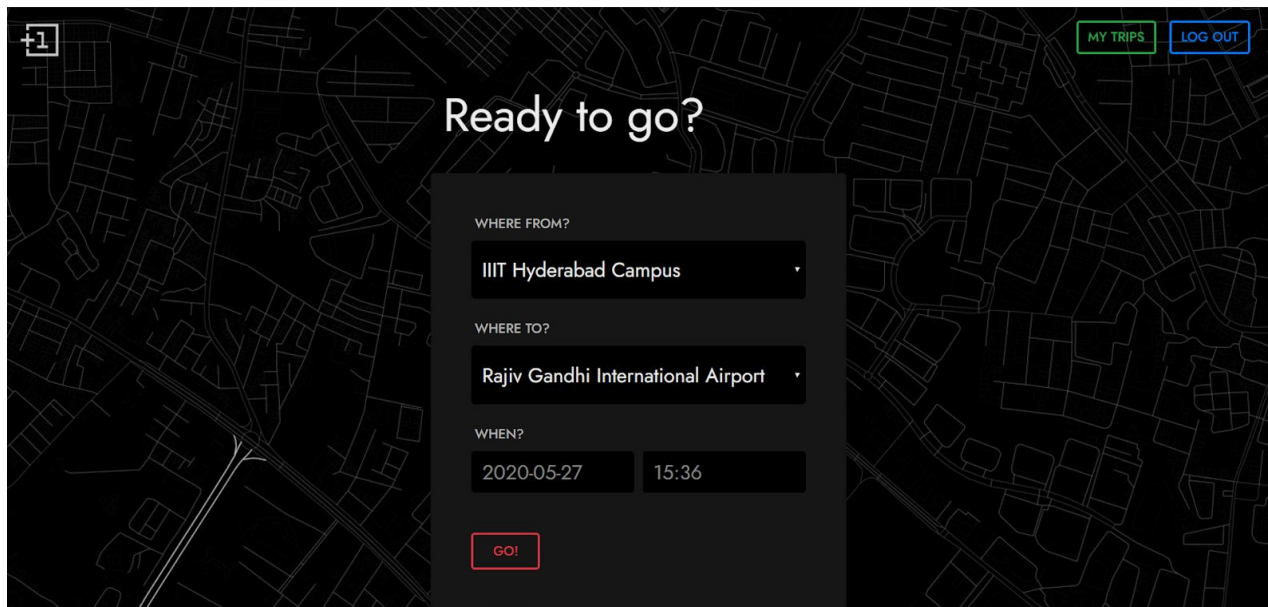
CONTACT INFO?

(Mobile/Facebook/E-Mail, anything.)

SUBMIT

Home

Once your login/registration is done you will be led to the homepage where you can enter the details of your new trip or check details of your existing cluster(s) by clicking on “My Trips”.

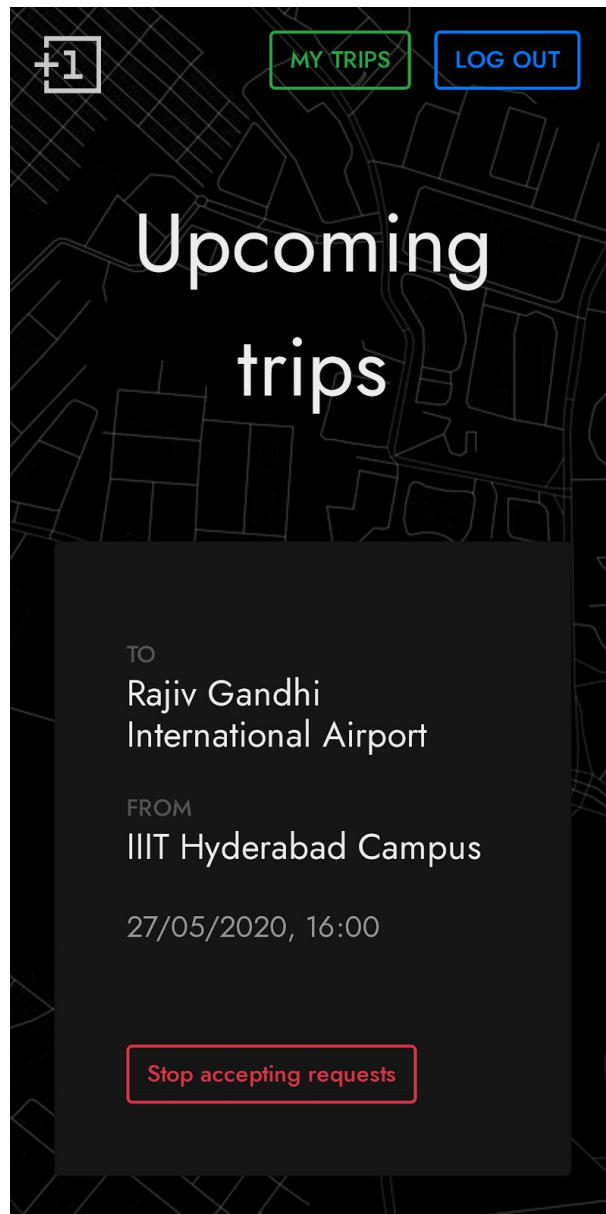


The screenshot shows a web application interface with a dark map background. In the top right corner, there are two buttons: "MY TRIPS" (green) and "LOG OUT" (blue). In the top left corner, there is a zoom-in icon labeled "+1". The main heading "Ready to go?" is centered in white. Below the heading is a dark gray form with the following fields:

- WHERE FROM?**: A dropdown menu showing "IIIT Hyderabad Campus".
- WHERE TO?**: A dropdown menu showing "Rajiv Gandhi International Airport".
- WHEN?**: Two input fields showing "2020-05-27" and "15:36".
- GO!**: A red button at the bottom of the form.

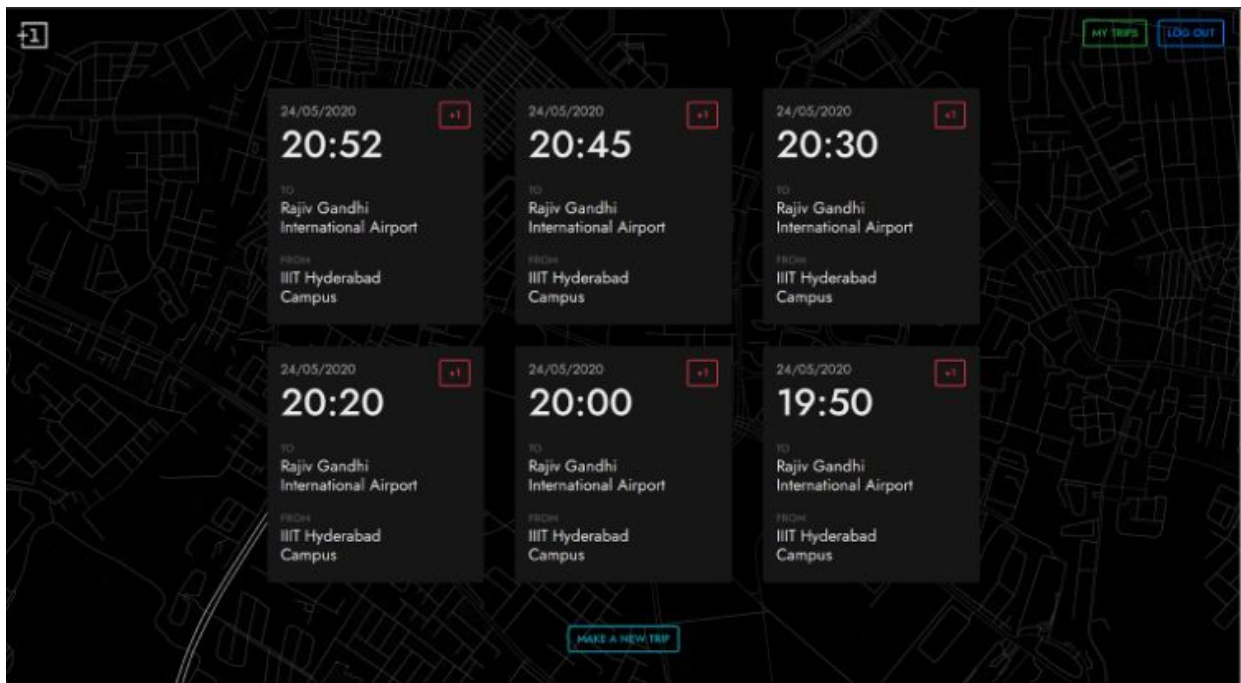
My Trips

This section gives details about the existing clusters that you created which are open to new requests. You can stop requests on any of the existing clusters by simply clicking on “Stop Accepting Requests”.



Search Results

Entering the details of your new trip, you get the search results. If there are no available clusters for your preferred time and location or if you are not satisfied with the recommendations that plusOne makes for your new trip, you can make a new cluster by clicking on “Make New Trip” and you’ll be considered the host of this new-formed cluster. If you’re satisfied with the shown results, it’s time to click “+1”.

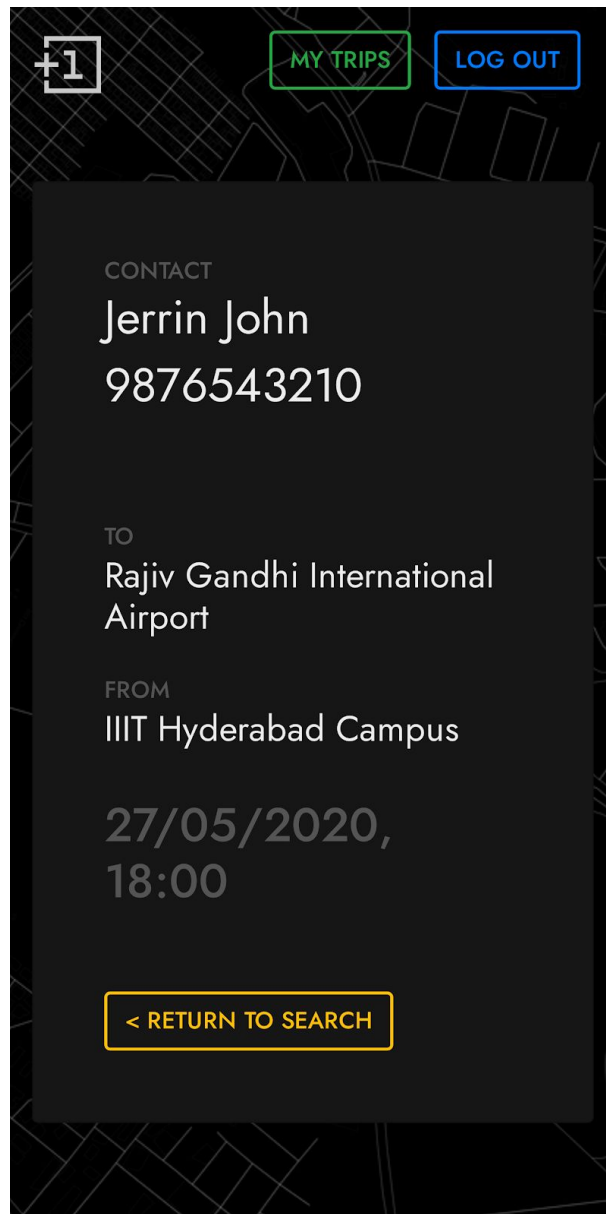


Make new trip

If you are not satisfied with the recommendations made, click on “Make New trip” and your trip will be made into a new cluster. In this case, your contact details will be given to anyone who chooses to travel in your cluster.

+1

By clicking “+1” on a cluster, you’ll get the trip details of the cluster along with the contact information of the cluster host. Now it’s time to contact the host and inform them of your presence in the cluster.



Technical Details

plusOne is built with a Django backend, a SQLite database, and CAS for authentication. The user interface was designed using the Bootstrap framework, vanilla JS and jQuery.

Future Scope

We did the current implementation in the short time allotted. But there's a huge scope for improvement, such as:

- Using a Maps API instead of having a dropdown list of most frequent places.
- Suggesting clusters with drop points enroute to the input destination.
- Converting into native app, using which we can take advantage of push notifications and make a more fluid system based on requests and chats/comments.

P.S. Guess the background map... :P