



# PASSO

Turning the fare handout into a digital solution

Abd Al-Ala Camara

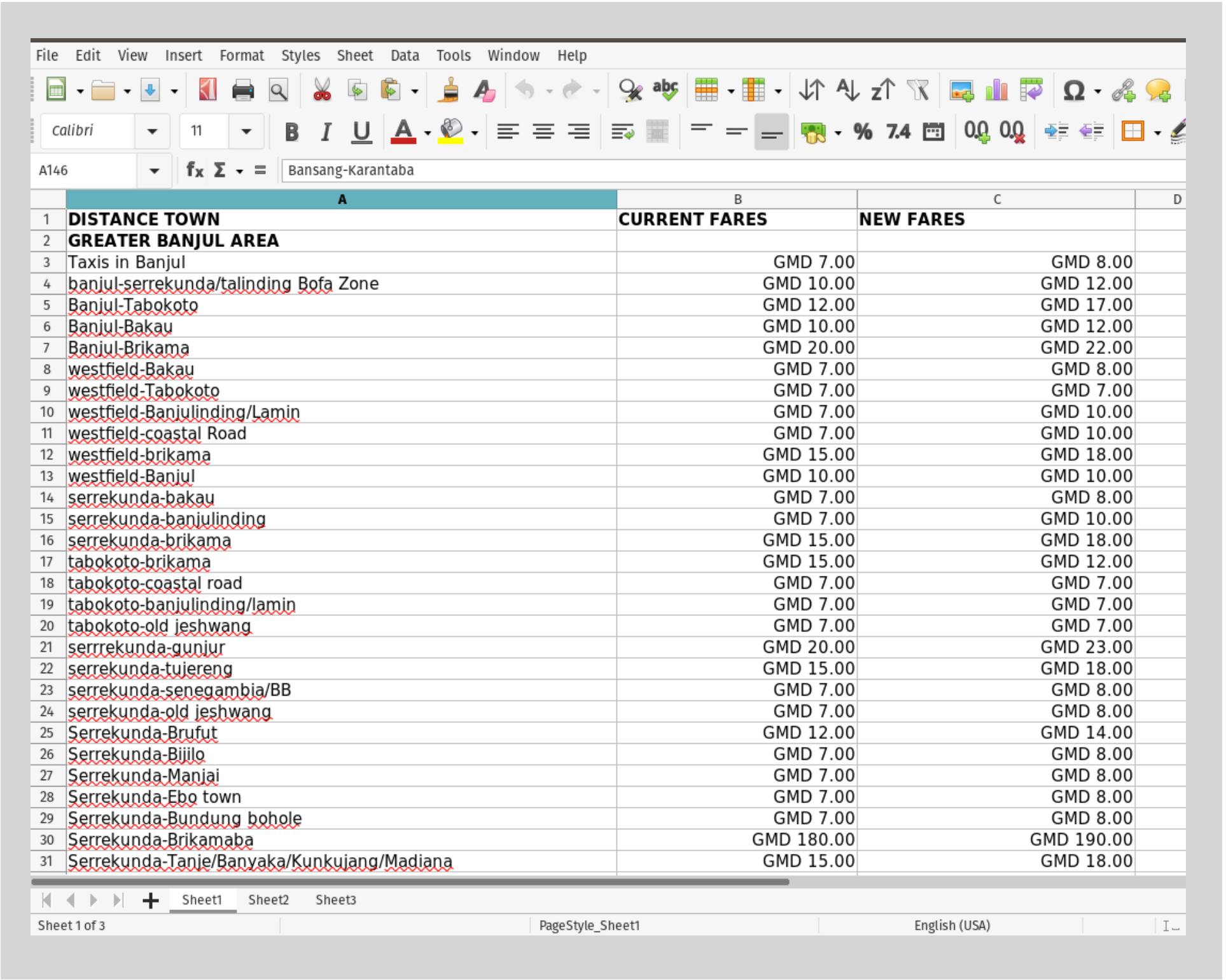
4 months

Figma, Whimsical, Miro, Zapline, Lookback

# Problem Overview

The Ministry of Transportation created and distributed a fare handout listing all the fares in the country; Base on the background in my research plan, users (passengers and drivers/apprentice) used the fare handout as a single source of truth to settle disputes among themselves. But the handout, in turn, causes more problems due to the following reasons:

- Different users have different copies of the handout.
- The fare handout is six pages long; checking the fare from one locality to the other takes time.
- You can't carry it all the time.
- 30% of the passengers don't know a fare handout exists from the Ministry.



	A	B	C	D
1	DISTANCE TOWN	CURRENT FARES	NEW FARES	
2	GREATER BANJUL AREA			
3	Taxis in Banjul	GMD 7.00	GMD 8.00	
4	banjul-serrekunda/talinding Bofa Zone	GMD 10.00	GMD 12.00	
5	Banjul-Tabokoto	GMD 12.00	GMD 17.00	
6	Banjul-Bakau	GMD 10.00	GMD 12.00	
7	Banjul-Brikama	GMD 20.00	GMD 22.00	
8	westfield-Bakau	GMD 7.00	GMD 8.00	
9	westfield-Tabokoto	GMD 7.00	GMD 7.00	
10	westfield-Banjulinding/Lamin	GMD 7.00	GMD 10.00	
11	westfield-coastal Road	GMD 7.00	GMD 10.00	
12	westfield-brikama	GMD 15.00	GMD 18.00	
13	westfield-Banjul	GMD 10.00	GMD 10.00	
14	serrekunda-bakau	GMD 7.00	GMD 8.00	
15	serrekunda-banjulinding	GMD 7.00	GMD 10.00	
16	serrekunda-brikama	GMD 15.00	GMD 18.00	
17	tabokoto-brikama	GMD 15.00	GMD 12.00	
18	tabokoto-coastal road	GMD 7.00	GMD 7.00	
19	tabokoto-banjulinding/lamin	GMD 7.00	GMD 7.00	
20	tabokoto-old jeshwang	GMD 7.00	GMD 7.00	
21	serrekunda-gunjur	GMD 20.00	GMD 23.00	
22	serrekunda-tujereng	GMD 15.00	GMD 18.00	
23	serrekunda-senegambia/BB	GMD 7.00	GMD 8.00	
24	serrekunda-old jeshwang	GMD 7.00	GMD 8.00	
25	Serrekunda-Brufut	GMD 12.00	GMD 14.00	
26	Serrekunda-Bijilo	GMD 7.00	GMD 8.00	
27	Serrekunda-Manjai	GMD 7.00	GMD 8.00	
28	Serrekunda-Ebo town	GMD 7.00	GMD 8.00	
29	Serrekunda-Bundung bohole	GMD 7.00	GMD 8.00	
30	Serrekunda-Brikamaba	GMD 180.00	GMD 190.00	
31	Serrekunda-Tanje/Banvaka/Kunkuiang/Madiana	GMD 15.00	GMD 18.00	

I want to help the Ministry by turning the six pages fare handout into a digital solution by designing an experience that allows users to check the fare from one place to another.



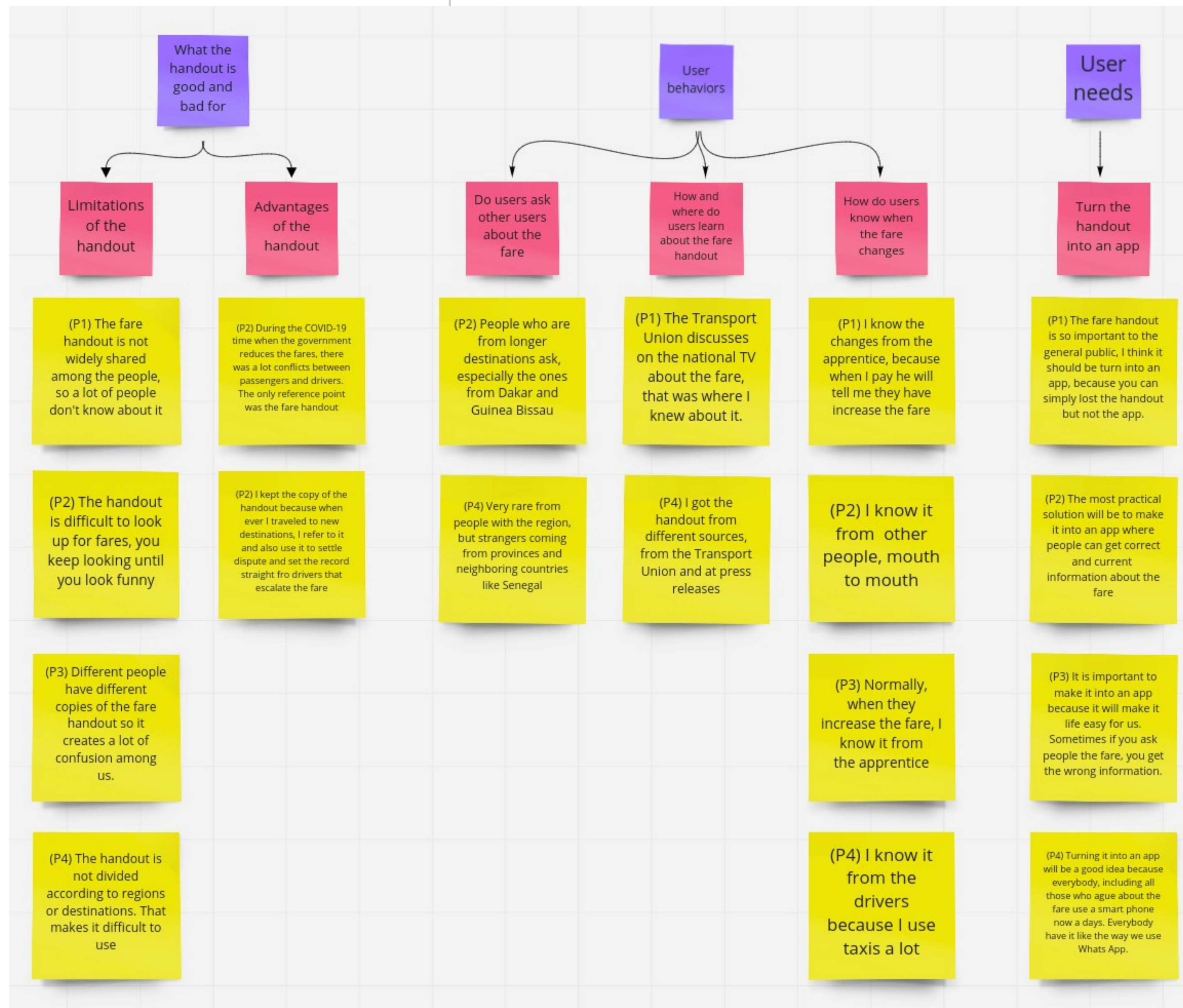
# Discovery: Research & Analysis

Before jumping into drawing screens, I want to be sure that I'm addressing the user's needs and unpack the insights; I have crafted a research plan and conducted in-person and phone interviews with peoples who regularly use the public transportation system.

I used active listening to condense all of the respondent's data into atomic nuggets that are easy to understand.

## Key Finding

With all the problems around the fare handout, passengers always kept a copy of the fare handout to refer to it to settle disputes with the drivers or apprentices.

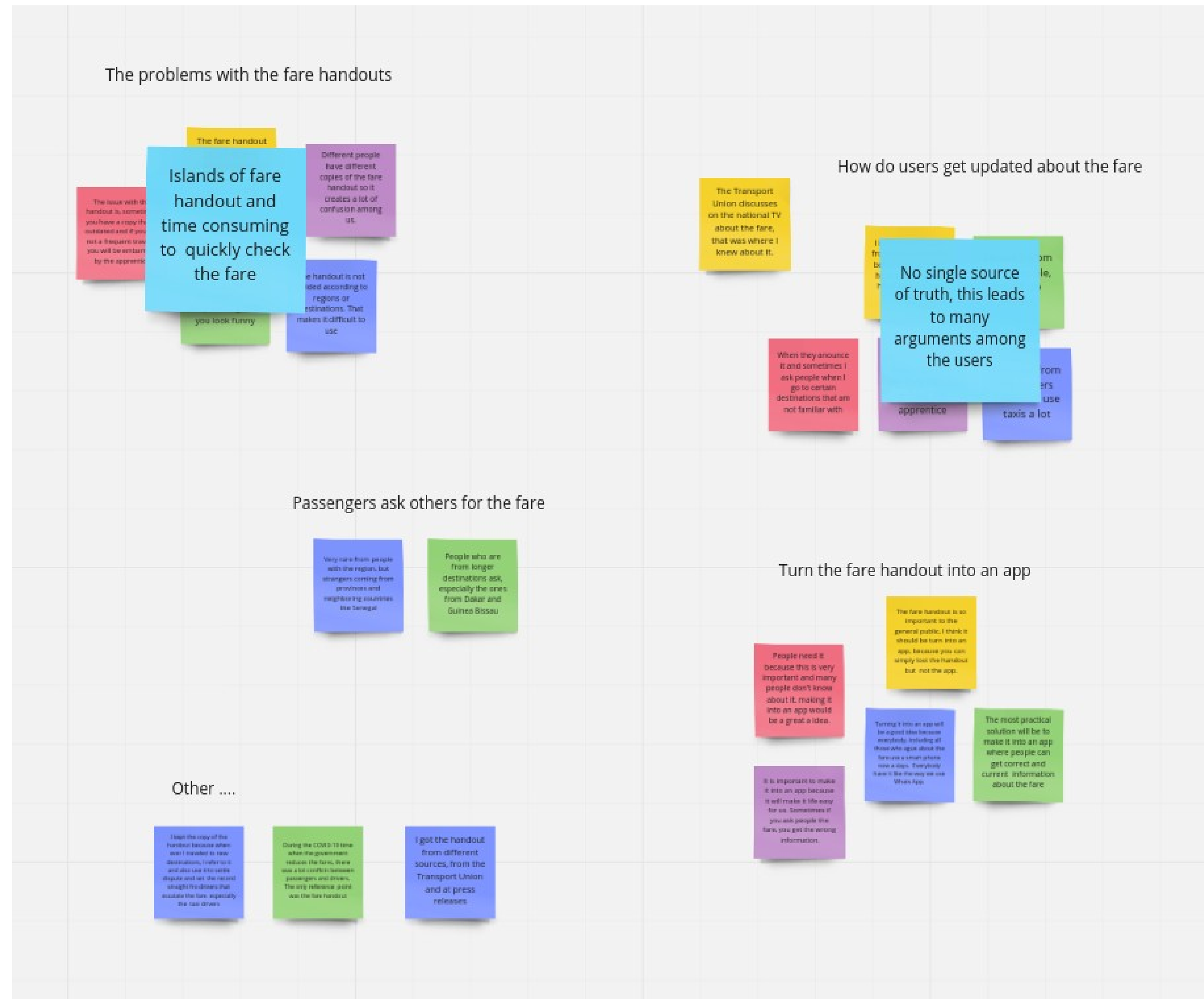




# Design: Concepts & Sketching

After completing active listening, I use a technique called affinity mapping (with miro) to gather all of the insights, cluster similar thoughts together, and named the clusters into themes. This process helps me see what exists across various users and various types of data and draw patterns to generate meaningful solutions.

From the themes, I have identified a few opportunity areas. For example, "How do users get updated about the fare?" has a great opportunity because there is no single source of truth of the fare handout.



# Design: Concepts & Sketching

## Feature Ideation

I used the Crazy-8 technique to focus my creativity and came up with some wild ideas on paper.

Finally, I came up with a single How might we question.

**How might we** provide a digital single and updated source of truth for passengers so they can quickly check the fare (know how much to pay) from one locality to the other?

#	Term	Description
00	Simple and intuitive search	A simple and quick FROM and TO fare search form
01	Simple Results	A simple fare results dialog
02	Clear and ease of use	A clear filterable listing of all fares within the country showing the regions, different vehicles types, and the fare
03	Administration	A back office for the authorities to add new users, new localities and update the fares
04	Notification system	Push notifications ones the authorities change the fare
05	Authentication & Authorisation	Authenticate users with sign In and reset password if forgotten
06	Historical Data	Keep the previous fares for historical reason
07	Feedback	A feedback form for users to let authorities know about new localities or places discovered.
08	Personalization & contribution	A WhatsApp widget for live chat with authorities concerning disputes and for the authorities to take measures to solve it



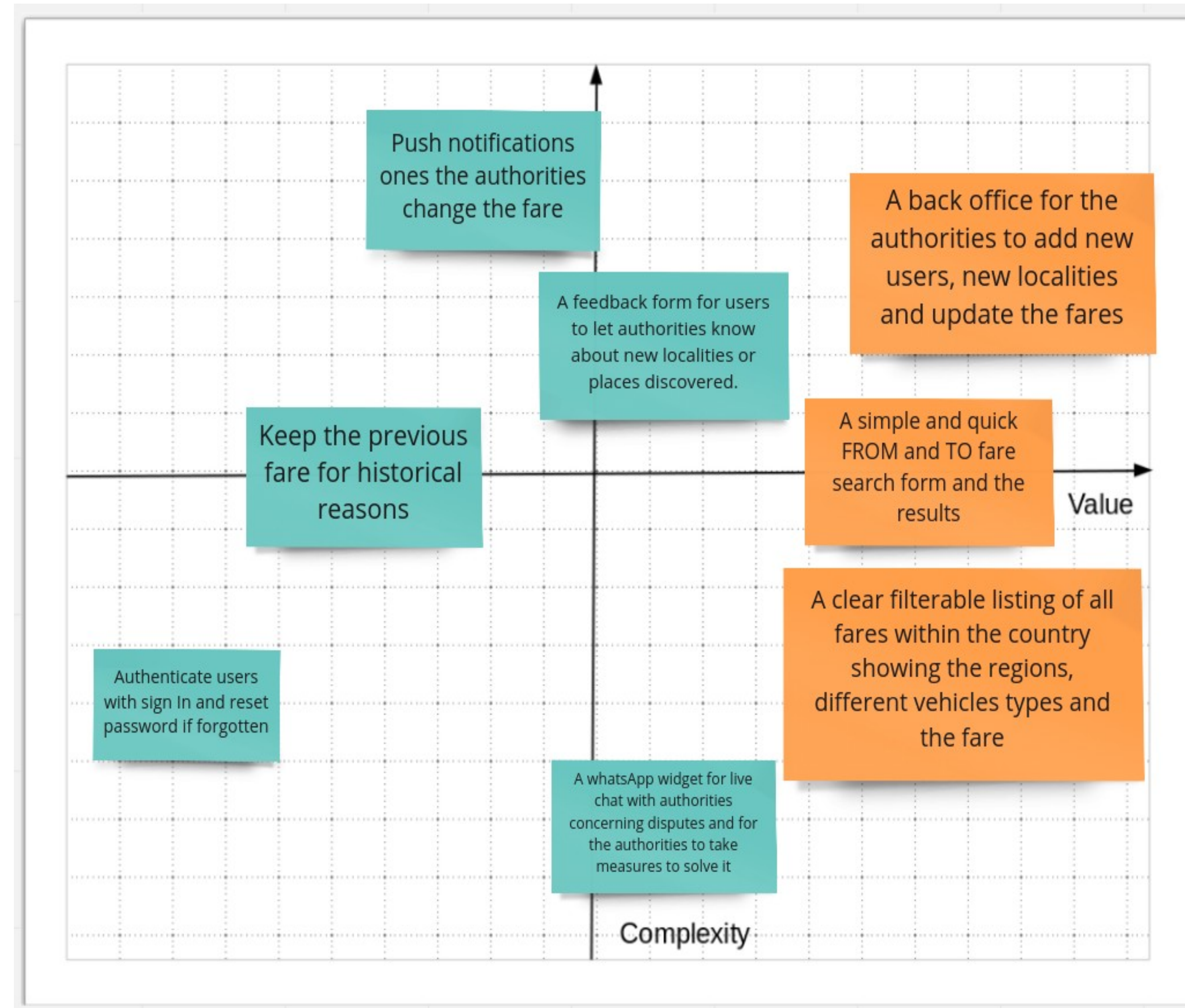
# Design: Concepts & Sketching

## Feature Prioritization

After having some opportunity areas, I use the Value Vs. Complexity Quadrant to prioritization three features to implement.

Based on the feature ideation and prioritization, the challenge for this project was to design:

1. A simple, easy, and quickest way for users to search how much the fare is.
2. A clear and filterable listing of all the fares with different vehicle types, localities with regions within the country.
3. A back office for the authorities to add new users, new localities and update the fares.

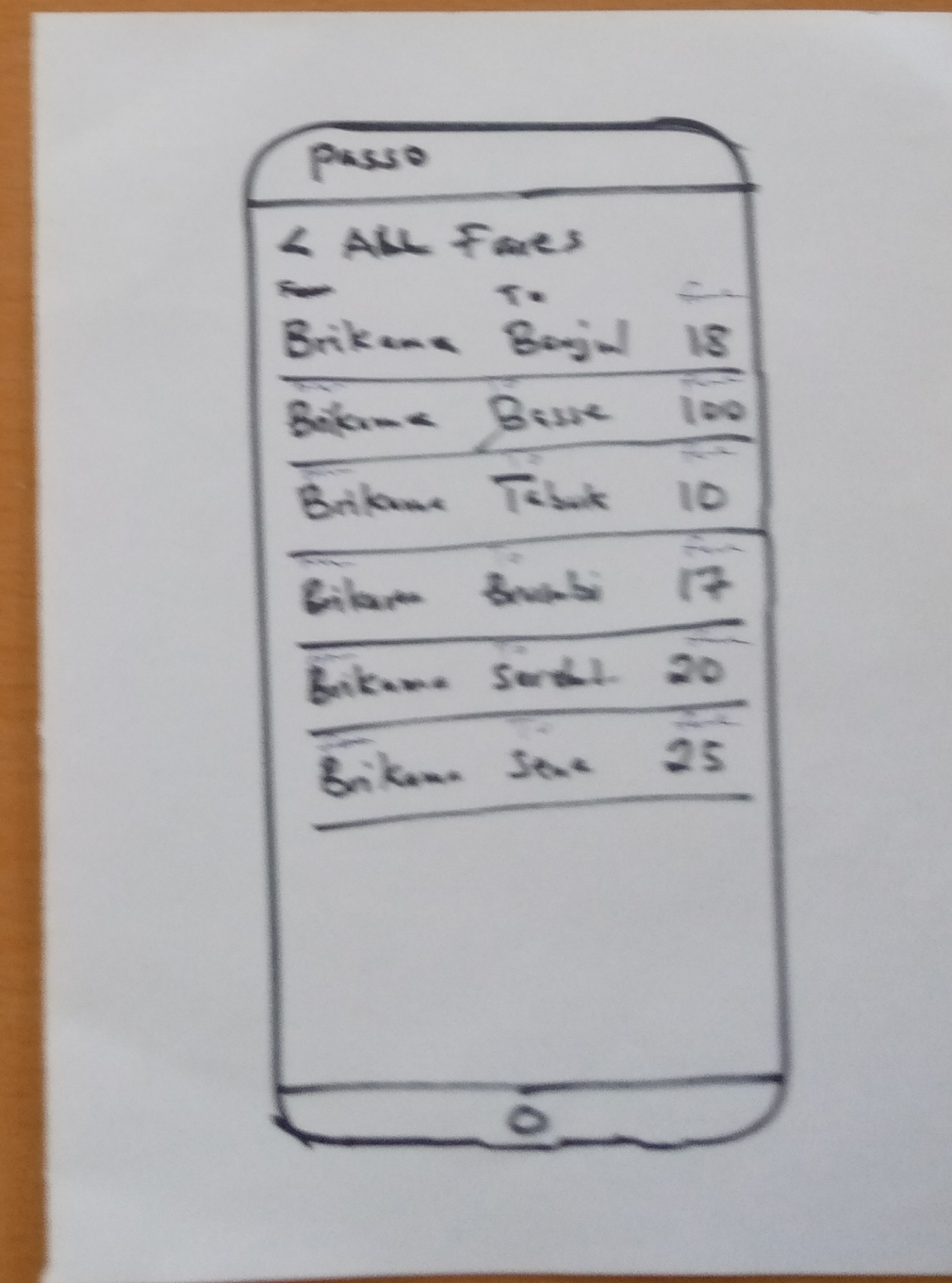
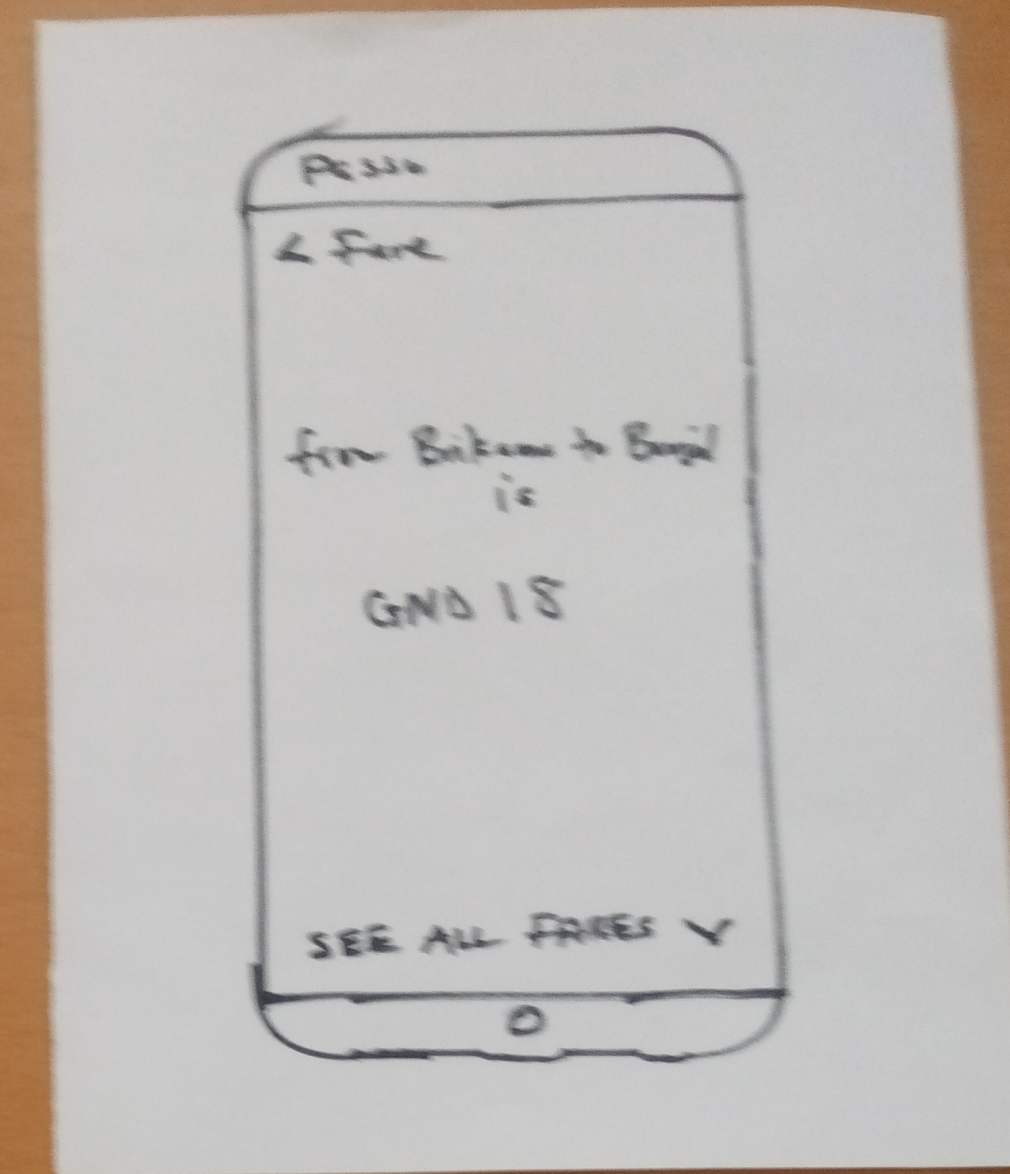
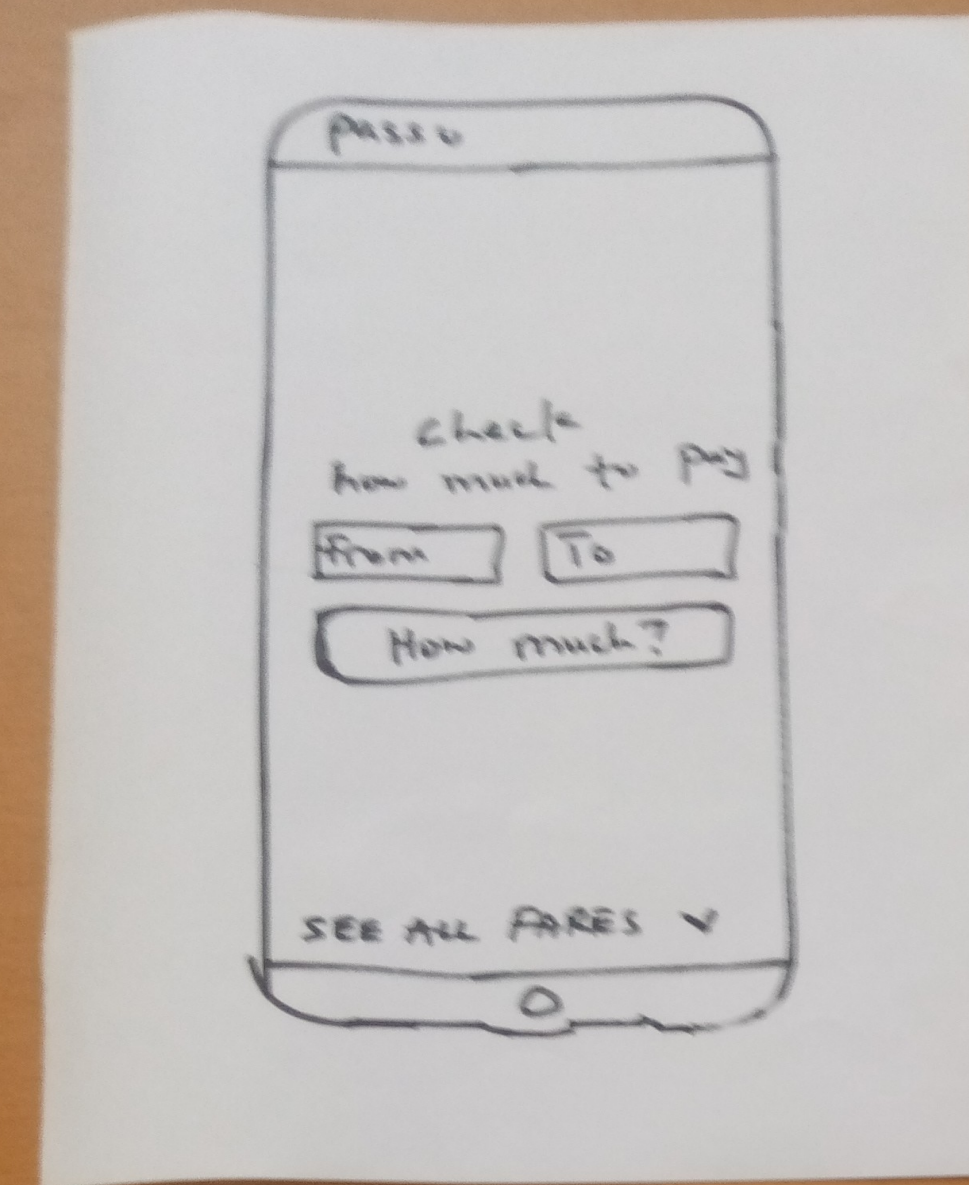




# Design: Concepts & Sketching

## Paper Sketches

Outputs from synthesis gave me a clear problem definition. Next up, I started sketching on paper to demonstrate the ideas of user's needs.





# Design: Concepts & Sketching

## Low-fidelity Wireframes

Up next, I move on to do the final sketches into low-fidelity wireframes using figma.

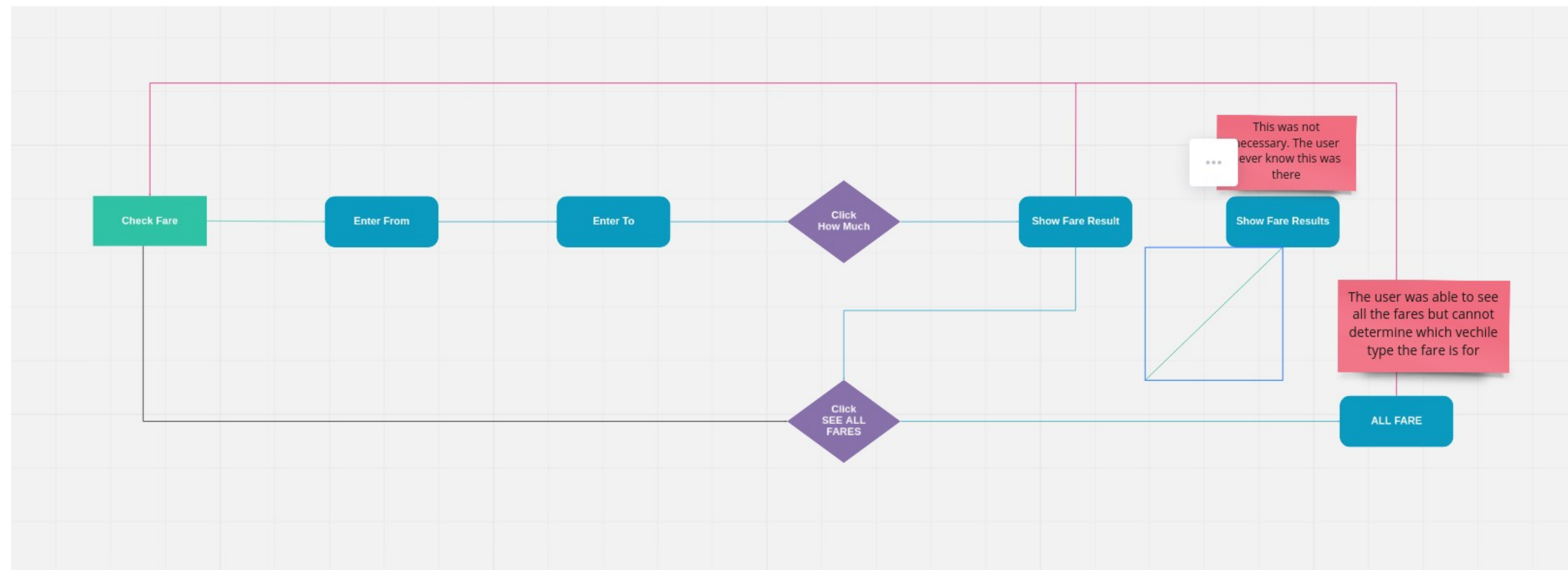
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# Design: Concepts & Sketching

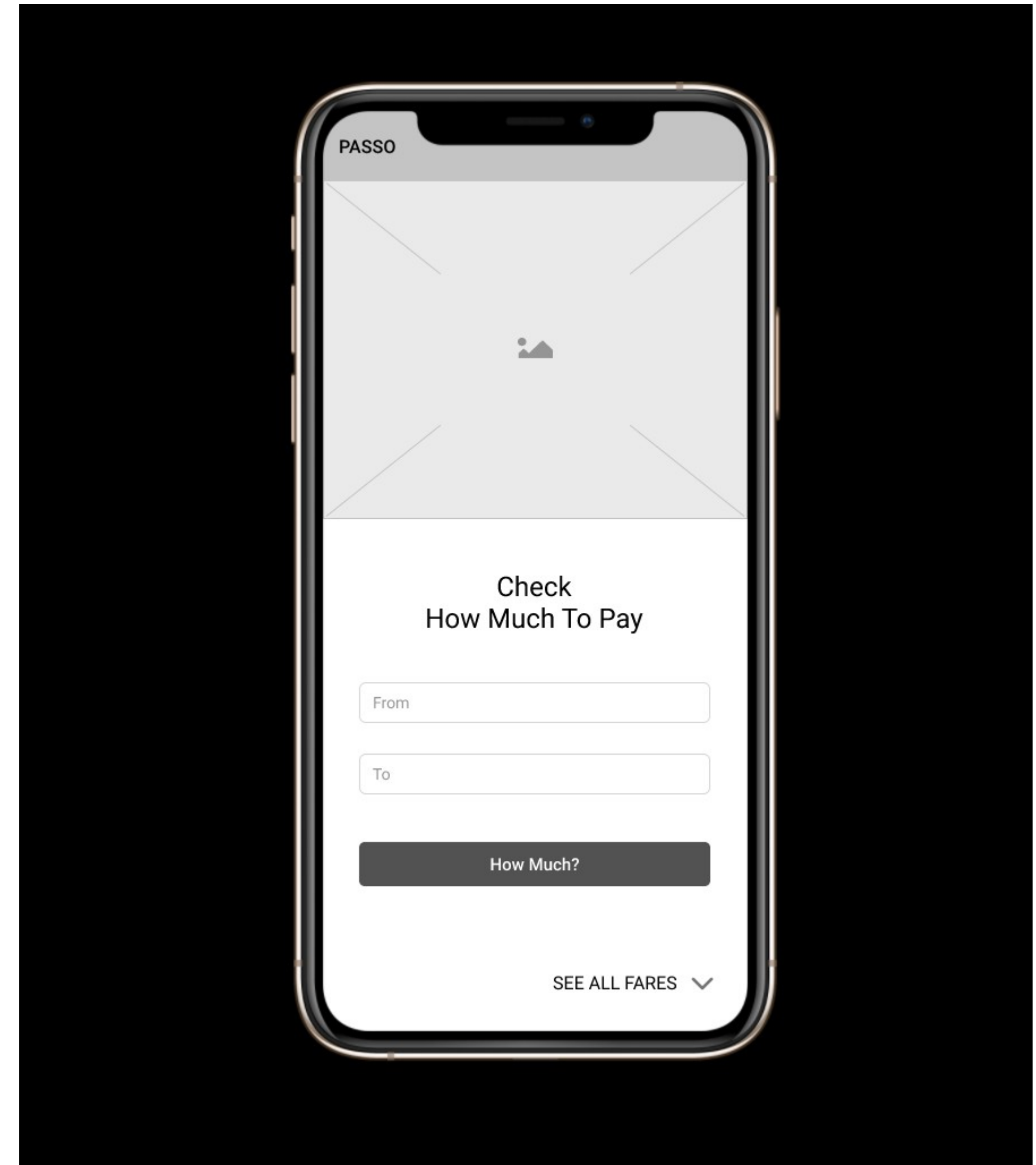
## User Flow

After having some views, I define a user flow (from start to finish and all the different directions they can take) to see the steps a user takes through to complete tasks. Here, I've shown the flow a user takes to search for a fare and a link to all fares.



# Develop: Prototyping

After defining possible user flows, I created a simple clickable prototype (using figma) based on the states of the flow to test with the users.



Figma Prototype URL:

[View prototype](#)



# Test: Validation, Usability, Feedback

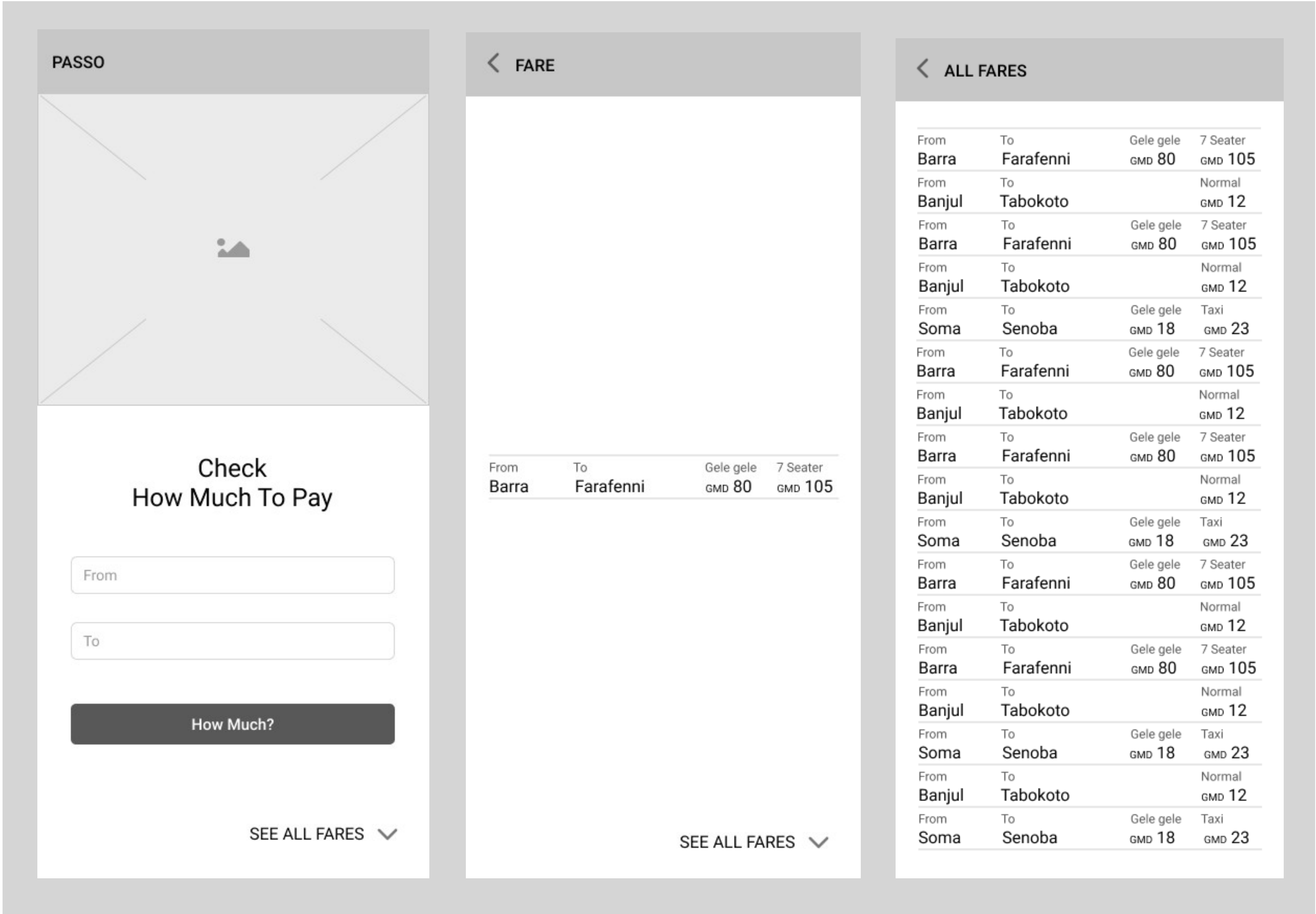
I learned the following from the usability study:

- The user was confused with the two fare results page
- On the ALL FARES page, the user couldn't determine the fare is for which vehicle type.

When I conducted further usability studies, other issues also were discovered. For example, nearly 100% of the users cannot quickly check for the fare on the ALL FARES page because it takes time to scroll to find the fare they are checking up.

# Design: Iteration

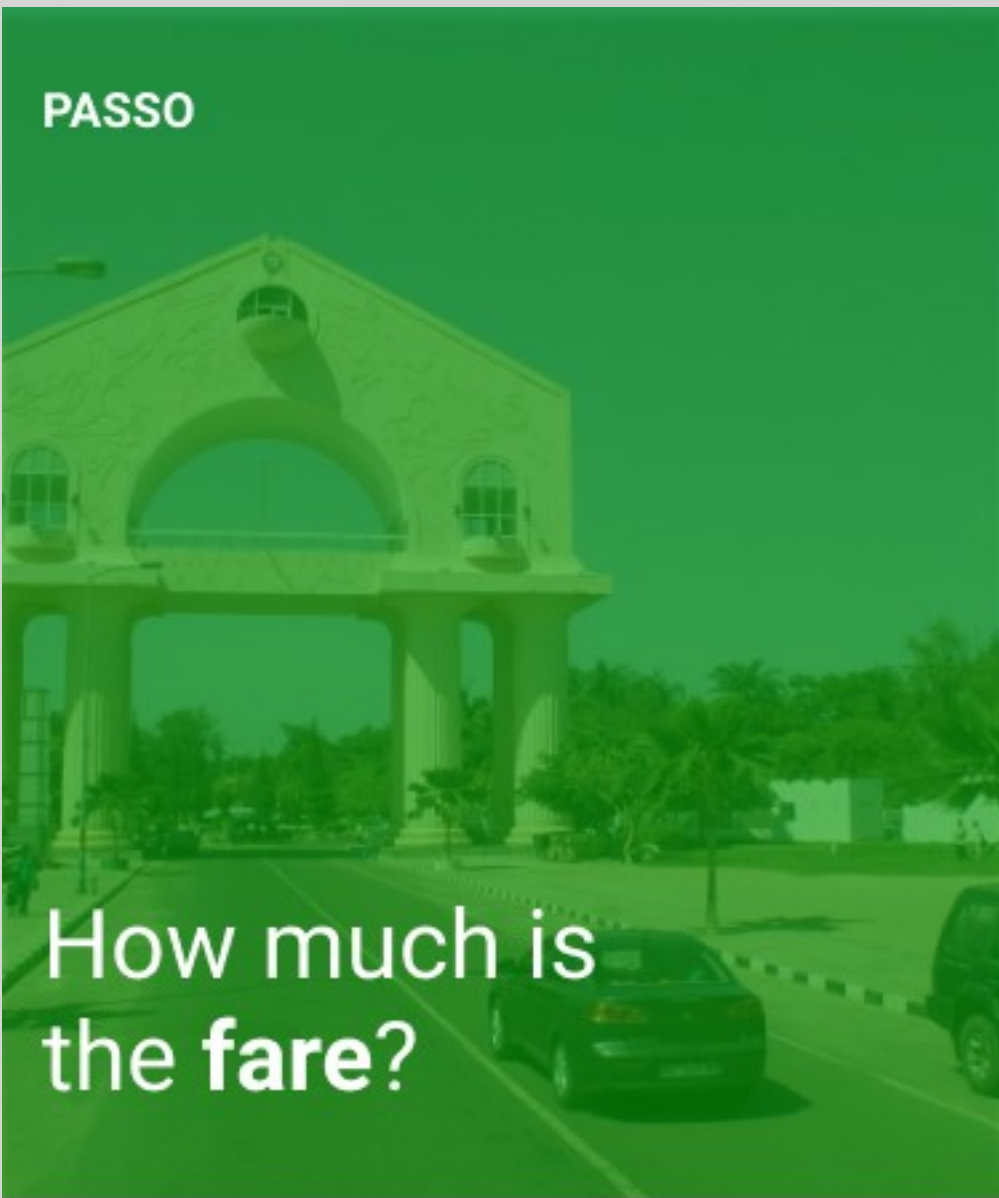
I took the insights and feedbacks from the usability testing and went back to refine my designs. I removed the the redundant multiple fares results page and show localities against fares.





# Solution & Impact Overview

Final solutions. Next, I will work on the designs for large desktop and start implementing the code.

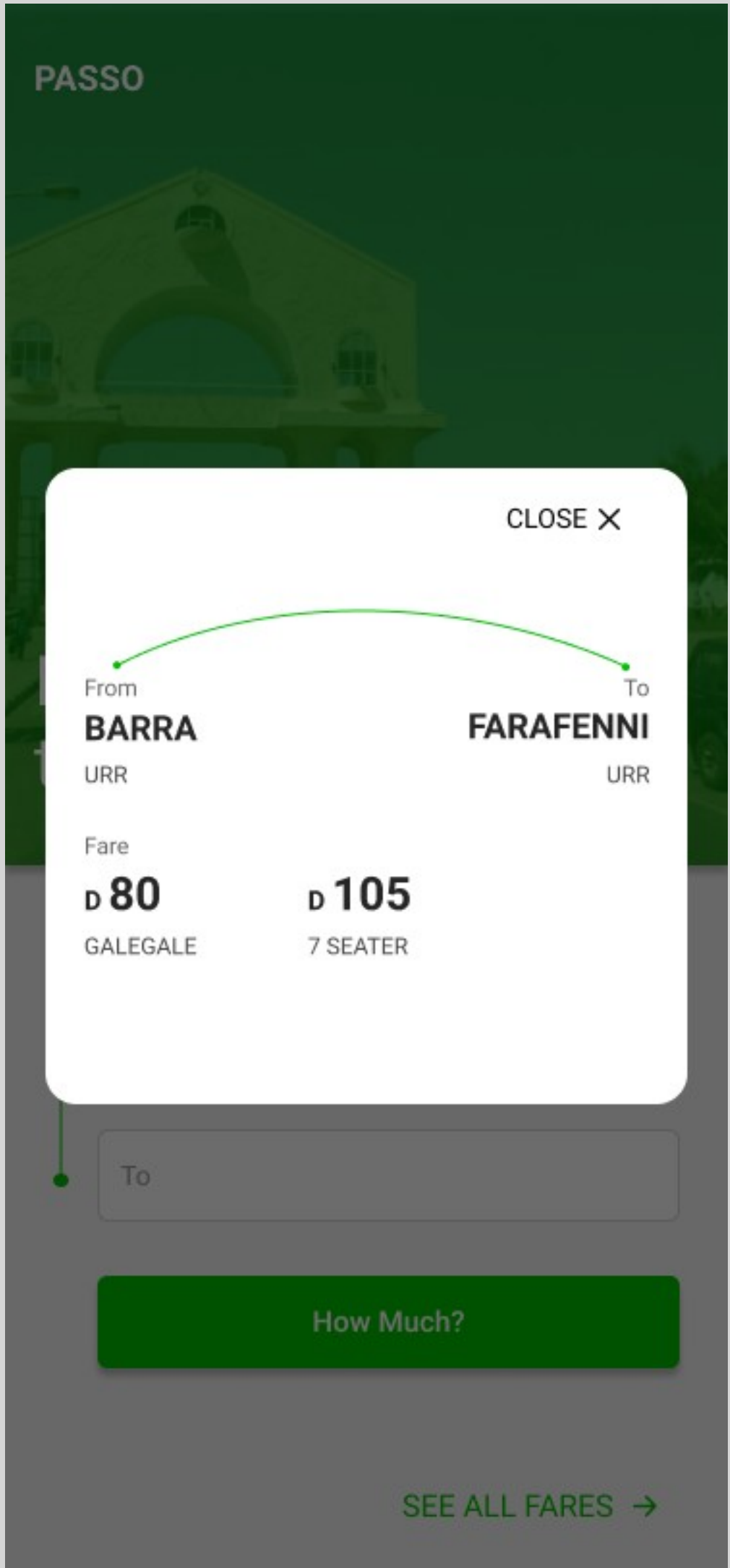


From

To

How Much?

SEE ALL FARES →



ALL FARES		
enter from and to		
From	To	Fare
BARRA	FARAFENNI	D 80 D 105
URR	URR	GALEALE 7 SEATER
From	To	Fare
BANJUL	TABOKOTO	D 12
BJL	KM	ALL
From	To	Fare
SOMA	SENOBA	D 18 D 23
CRR	CRR	GALEALE TAXI
From	To	Fare
BARRA	FARAFENNI	D 80 D 105
URR	URR	GALEALE 7 SEATER
From	To	Fare
BANJUL	TABOKOTO	D 12
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From	To	Fare
BARRA	FARAFENNI	D 80 D 105
URR	URR	GALEALE 7 SEATER
From	To	Fare
BANJUL	TABOKOTO	D 12
BJL	KM	ALL
From	To	Fare



# About Me

Peace, I'm A. Camariana, haling from the Gambia. I'm a UX Designer and Front-end Developer.

Blending a background in computer science and human centered design with love for faith and developer education, I work with startups to find solutions through design, front-end development and training.

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