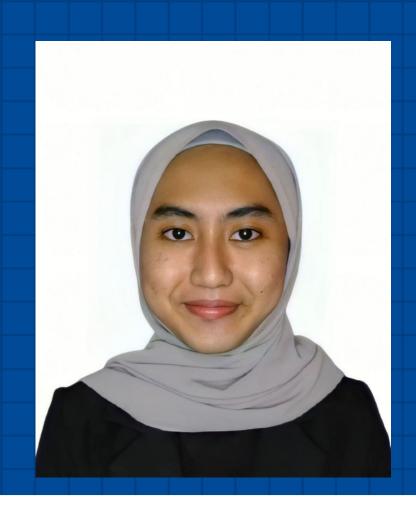
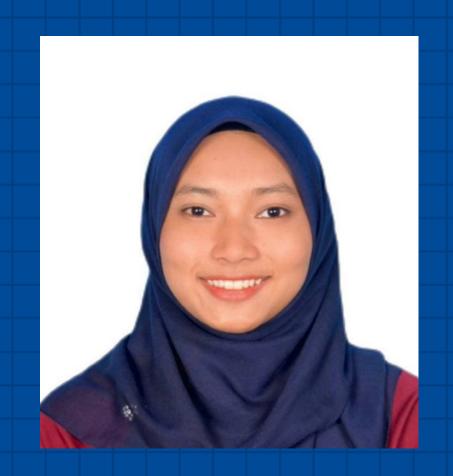


Meet the crew!



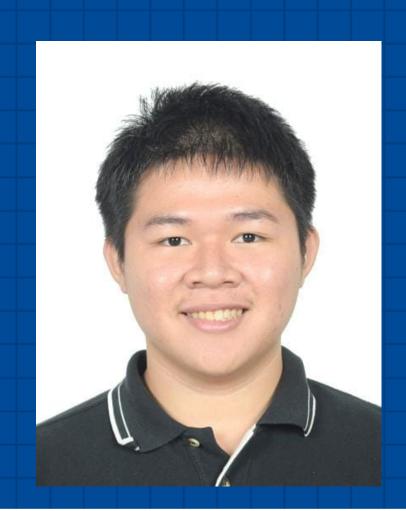
Nur Athira Nabila Bt Lukman

A21EC0109



Norain Bt Mohd Sulaiman

A21EC0106



Amos Keagan Hosea

A21EC0161

000 Introduction Prototyping and its role in UX design



- User experience (UX) design is crucial.
- Prototyping is an important aspect of designing a good UX.
- Prototype:
 - Simple statement of design intent.
 - Helps designers demonstrate and test their ic.
 - Replicates a full app or one interaction.
 - Working model of a finished product.

What does "Fidelity" mean?



- Refers to how close a representation to the final result.
- Two types:
 - Lo-fi (Low Fidelity)
 - Hi-fi (High Fidelity)

Benefits and Explanation of using Lo-Fi Prototyping

- Quick and easy technique on how to materialize the idea into a real product
- Used to sketch out the flow and test the product's utility whether it's fully functioning and its usability
- Can be done digitally or on paper
- Low cost
- Encourages group work
- Doesn't require any special expertise

000 Shuttle+: Integrated Bus System

<

 Manual routines, systems and activites are still used to complete daily tasks.
 (Ineffecient and time-consuming)

- Manual systems are still used today:
 - The inability to adapt and lacking tech knowledge.

Situation in the UTM campus

- Public transport is crucial for the first-years and for those who uses them for daily commute.
- Those who chose for daily commute will have to wait for more than 30 minutes for the bus to arrive.
- If they are to wait sooner for the bus to arrive sooner, it'll be a waste of time.

As a result, our group agreed to create a prototype of an integrated shuttle bus service system.

Goal and features of our prototype

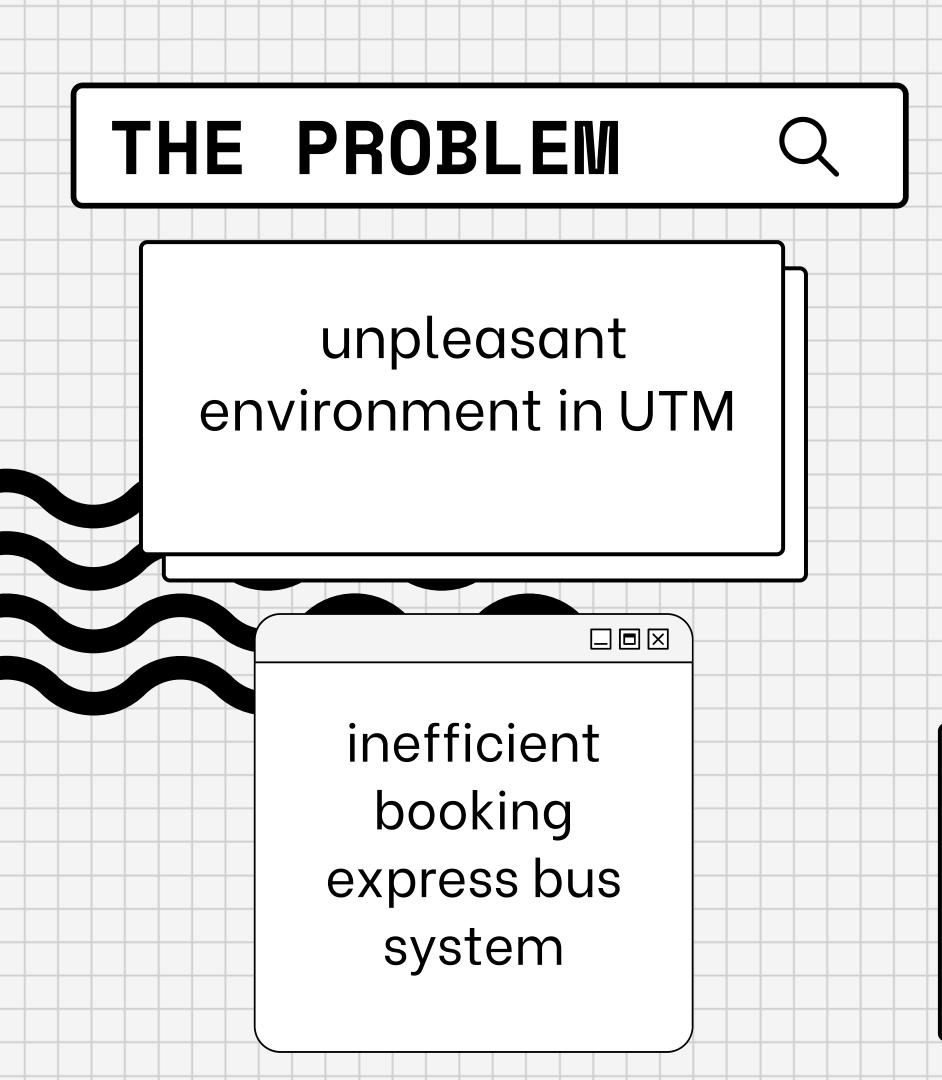
Our goal:

- Convert manual routine of shuttle bus booking into a computerized system.
- Serve as a communication platform between drivers and students.

Features:

- Allow users to book tickets and drop off point.
- Allow bus drivers to see the list of bus stops for ease of dropping off and picking up passengers.
- Allows public bus users in UTM to trace the location, ETA and ETD of the bus in real-time.

*ETA: Estimated Time of Arrival, ETD: Estimated Time of Departure



wasting time to wait for the bus.

complicated process to book for bus for special occasions

THE SOLUTION

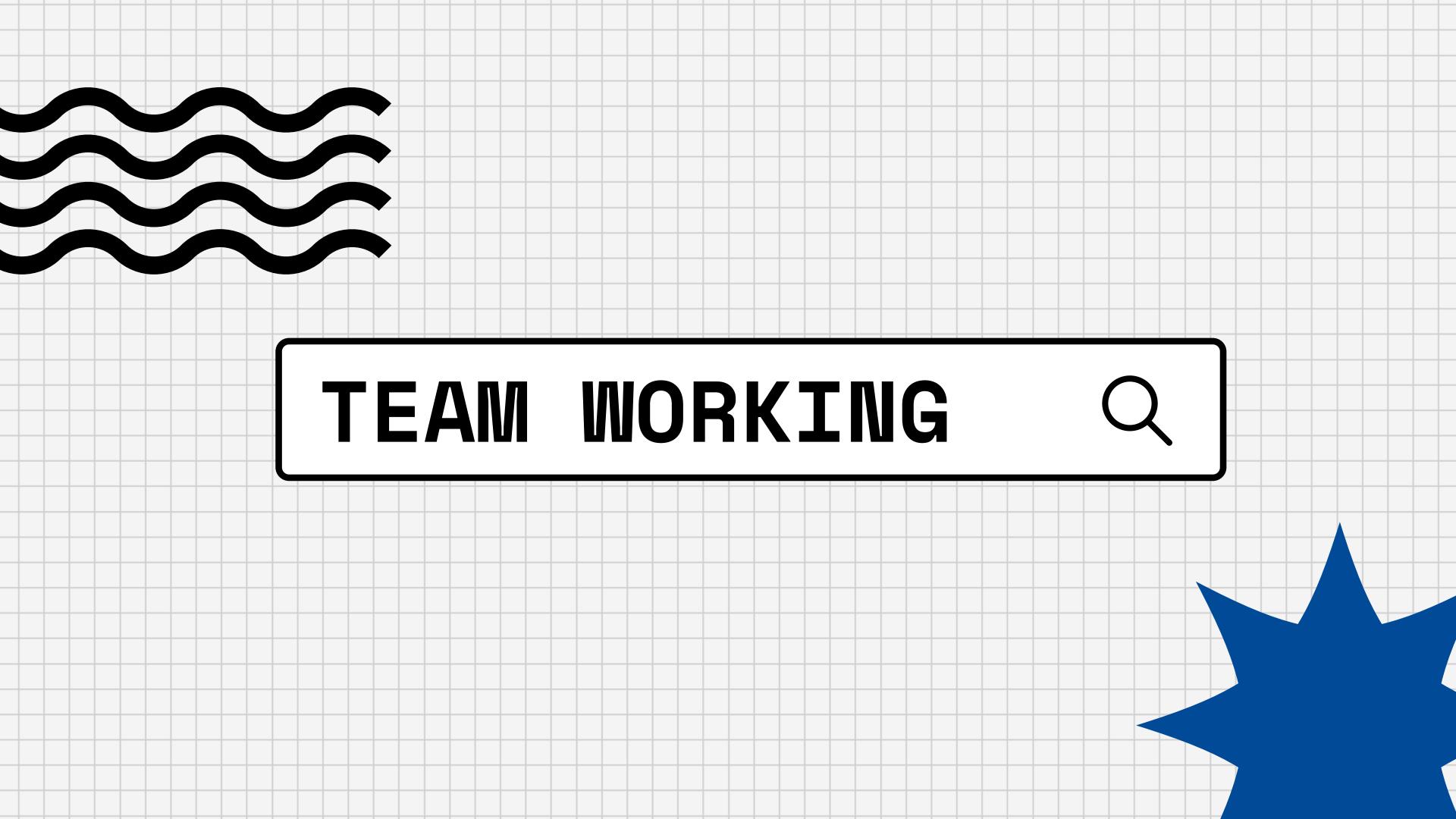
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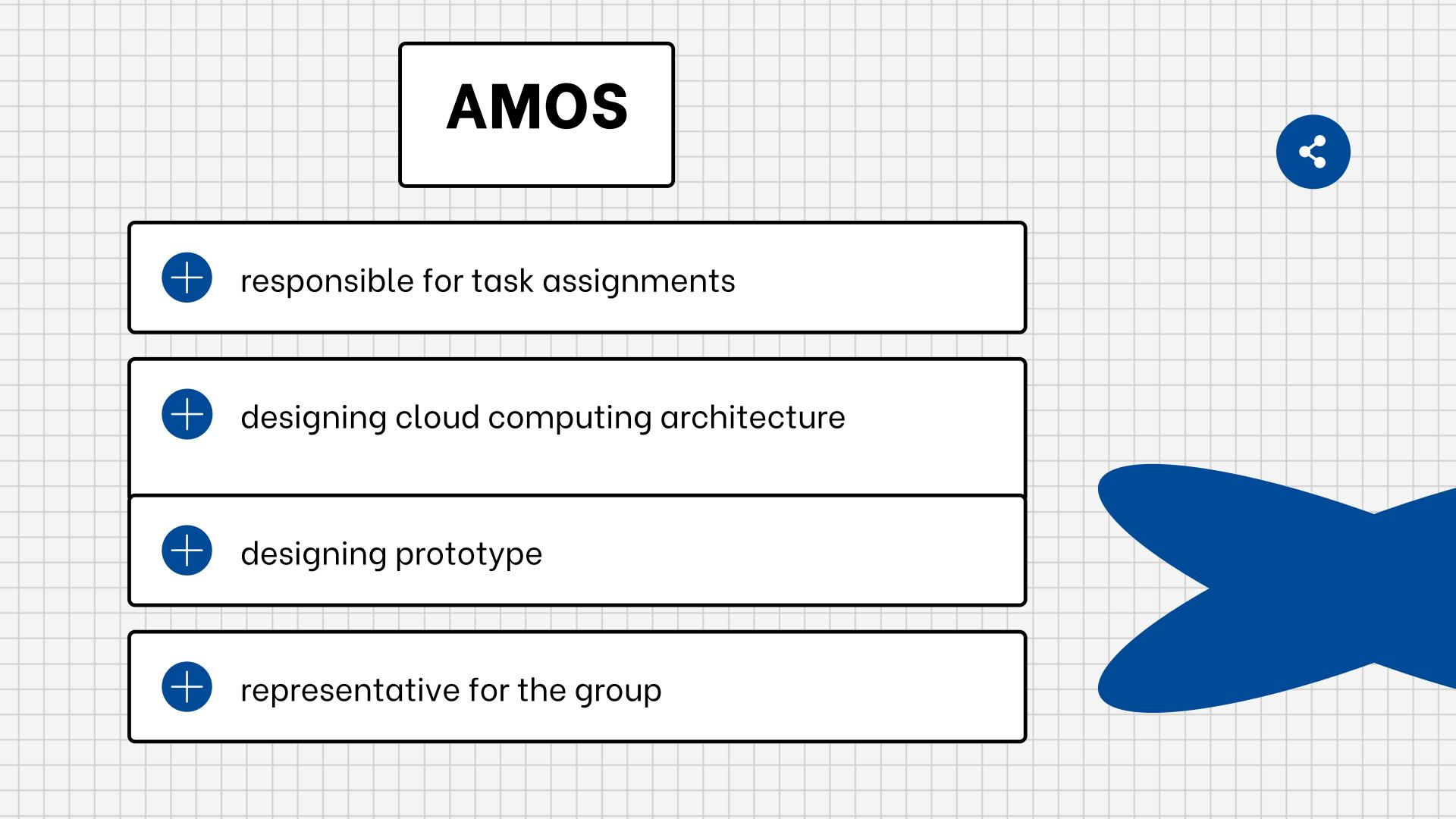
provide real-time location ,ETA and ETD

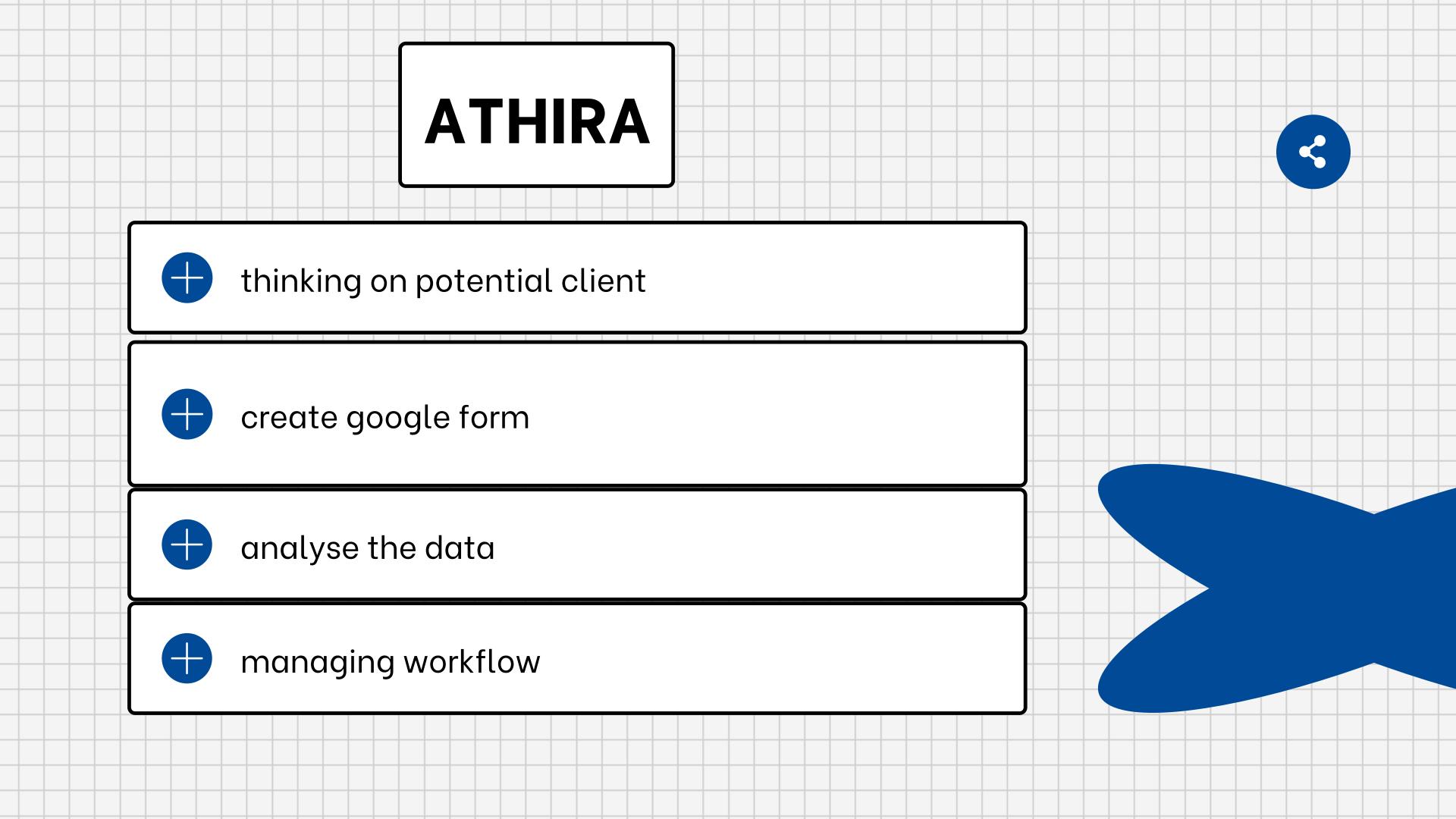
promote the upgraded system of shuttle bus to lessen cars on the road allows users to book express bus without using public websites

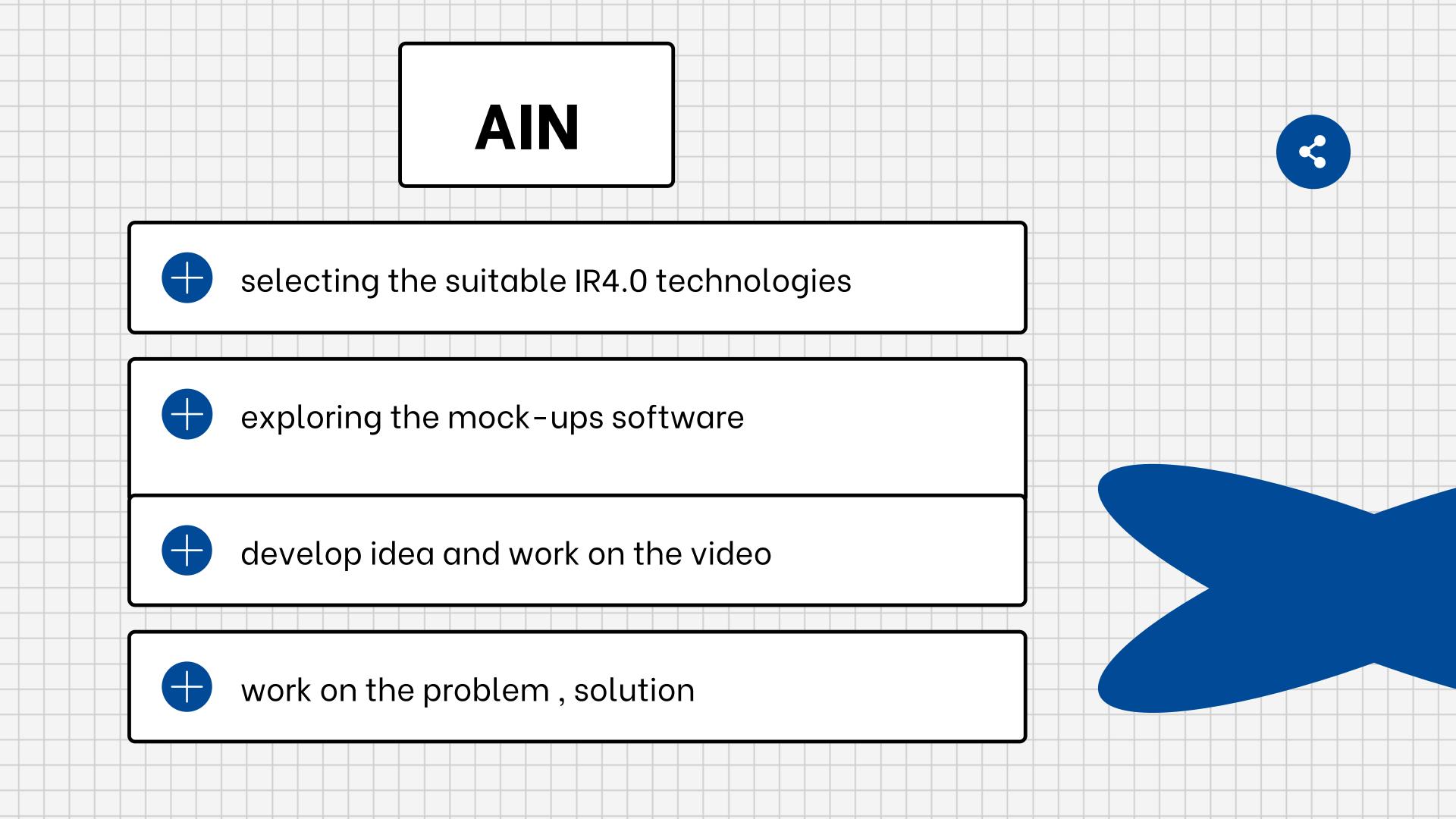


provide a simpler and fast process for special events bus booking









000

+

Details Steps and Description

Journey of making Shuttle+ project becomes a success.



- Scheduled the plans, steps and goals
- Problem and solutions
- Research and survey



1 2 3 4 5
EMPHATISE DEFINE IDEATE PROTOTYPE TEST

EMPHATISE & DEFINE

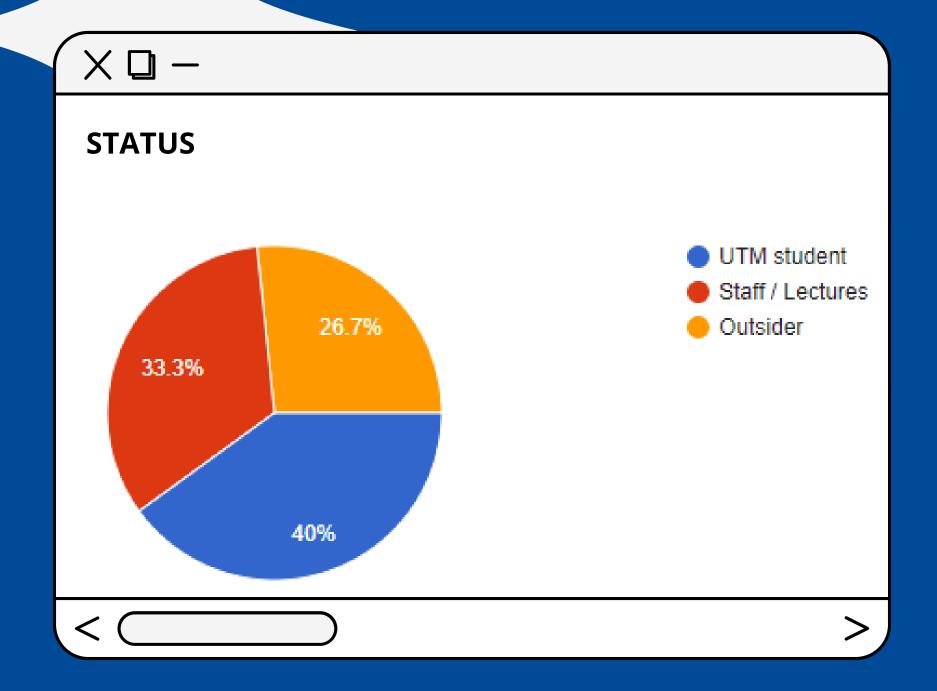
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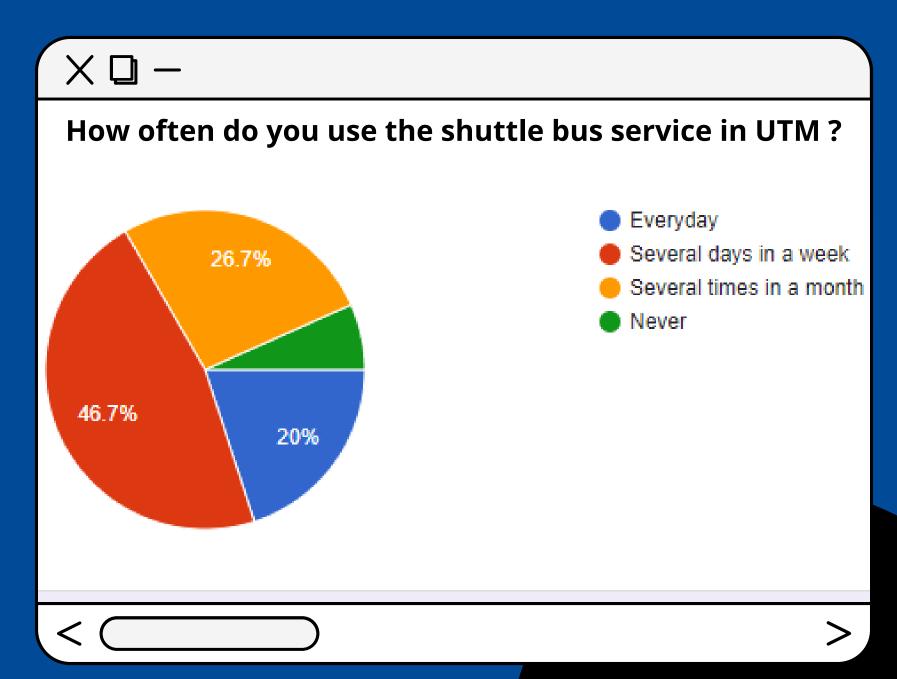
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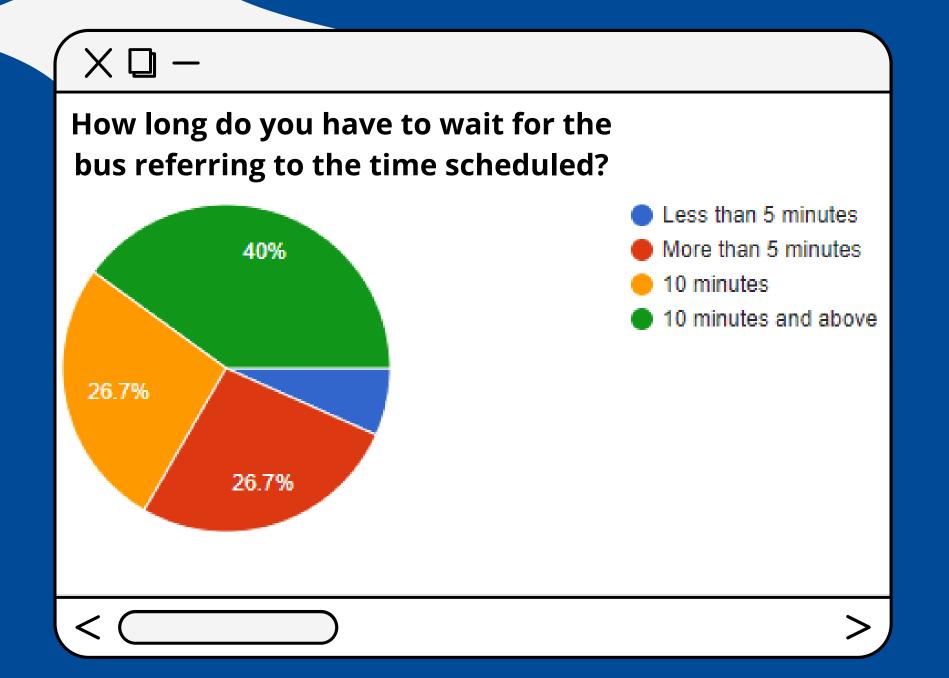
Survey on shuttle bus service system in UTM

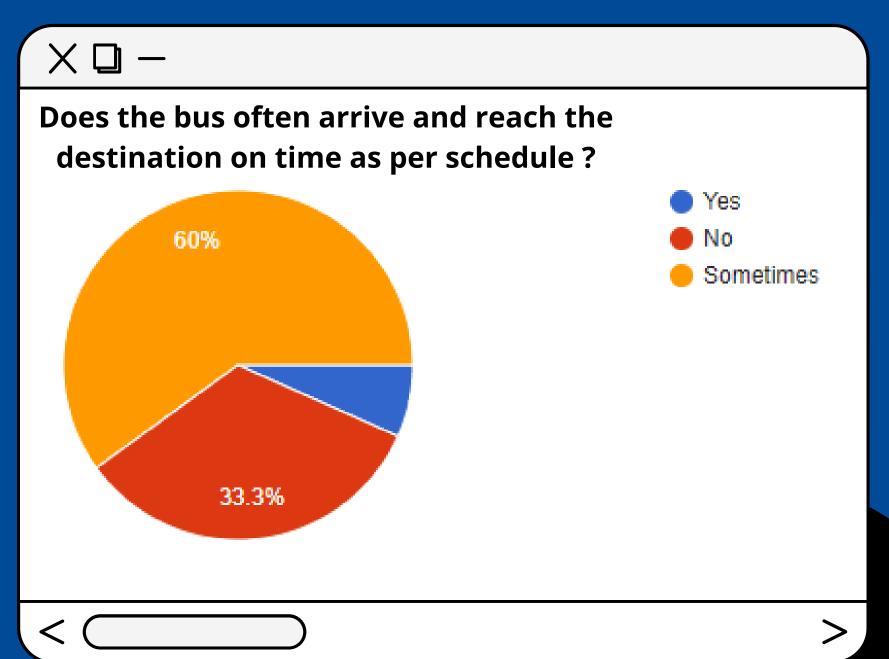
- 1. Status
- How often do you use the shuttle bus service in UTM?
- How long do you have to wait for the bus referring to the time scheduled?
- 4. Does the bus often arrive and reach the destination on time as per schedule ?
- Do you want real-time updates on the whereabouts of the bus?
- How do you prefer to know the shuttle bus service info ?
- 7. Do you have any difficulties booking an express bus to go back to your hometown?
- If yes, why?
- Are you satisfied with the booking system for the facilities provided in UTM?
- 10. Do you prefer a booking service that does not need any paperwork or approval from the administration?

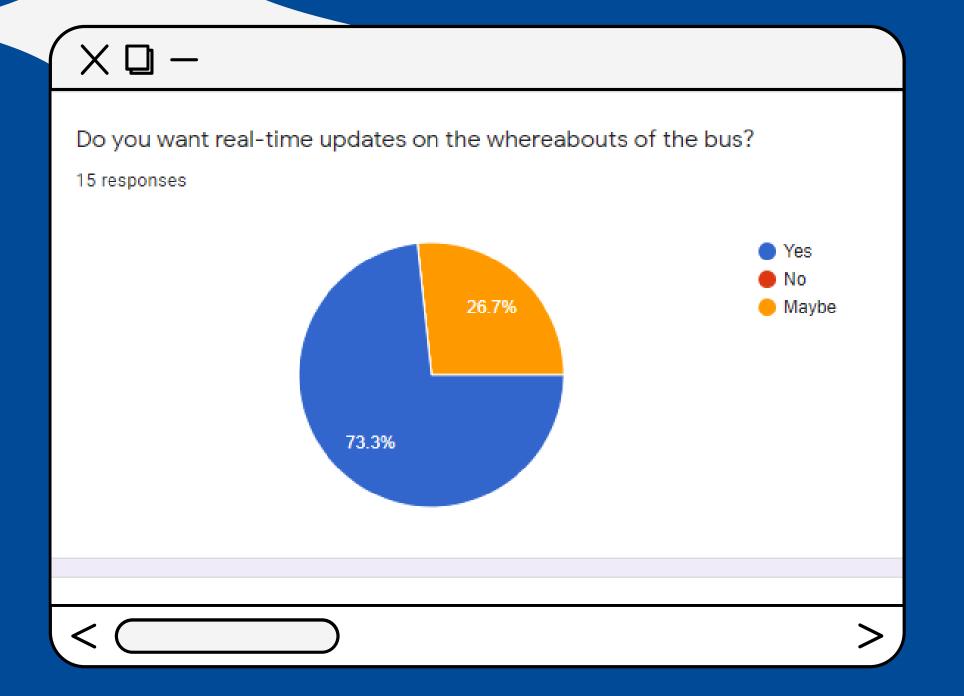
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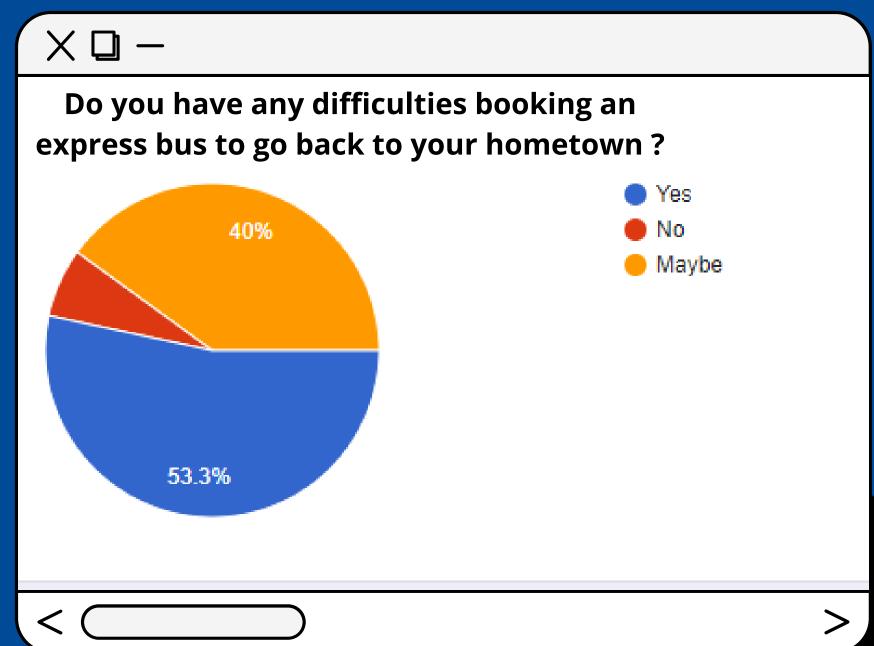






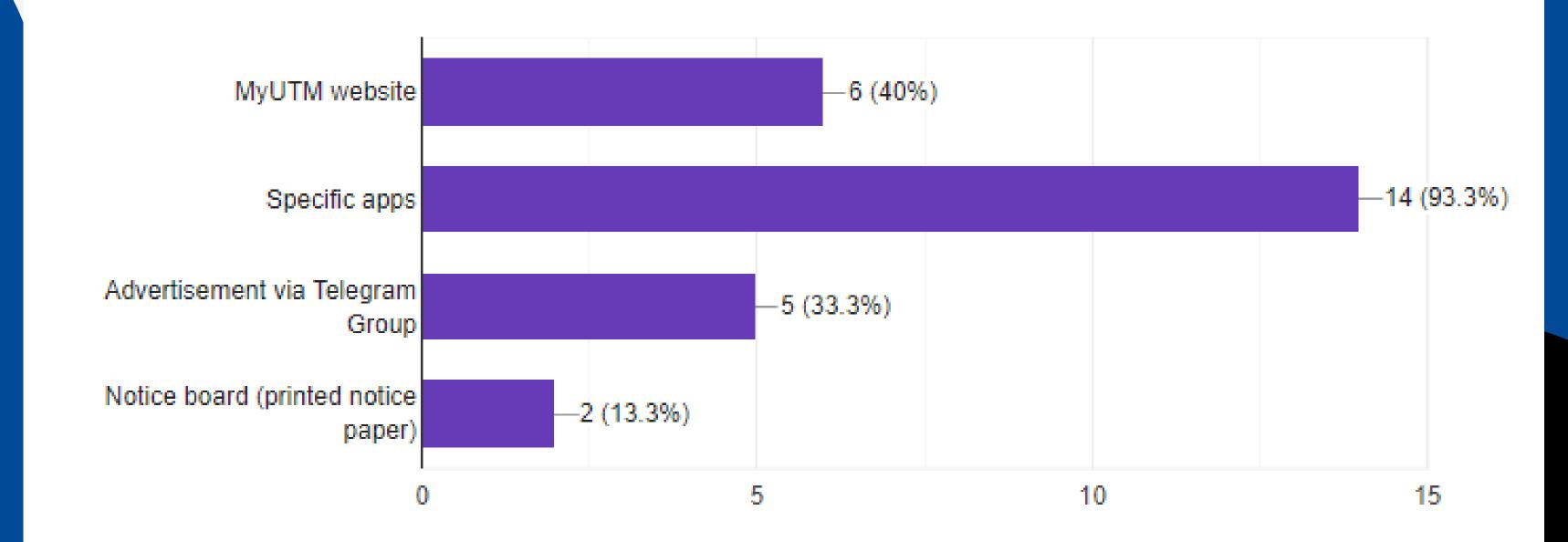






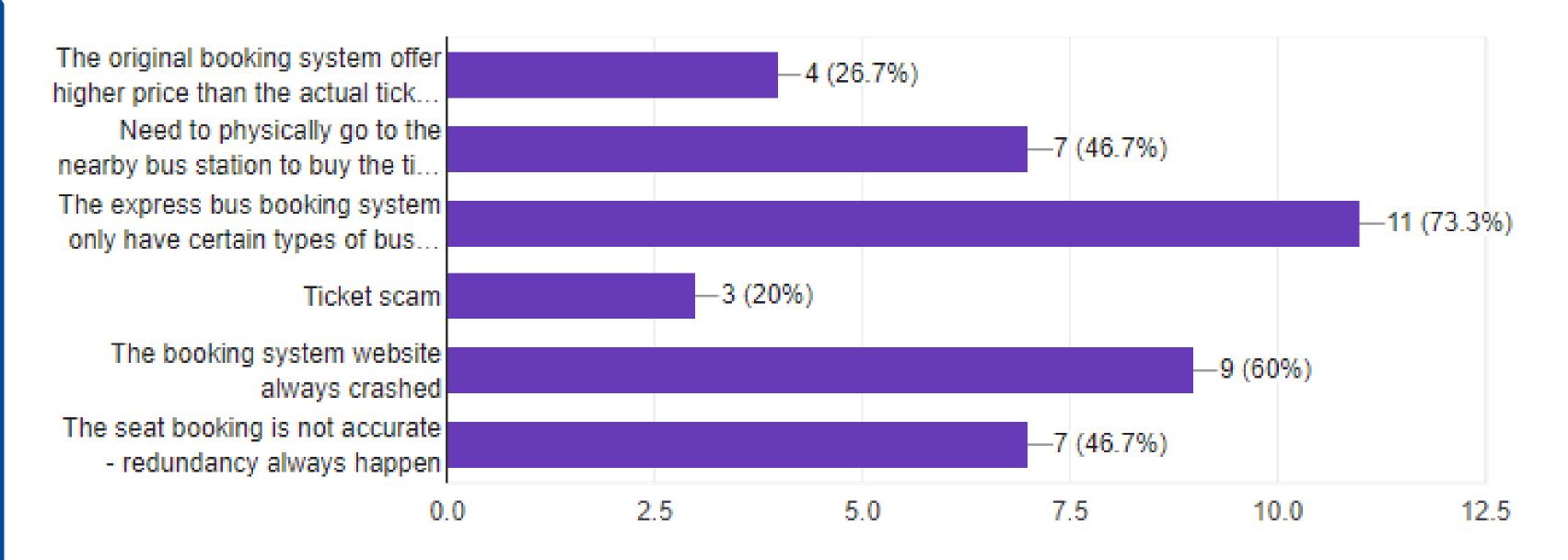
How do you prefer to know the shuttle bus service info?

15 responses



If yes, why?

15 responses



IDEATE

Search

- Telegram group + Google Meet
- IR4.0 technology : system integration technology
- improvements and features
- basic sketches of the prototype on paper

low-fidelity prototype using PowerPoint

Save

SKETCHES

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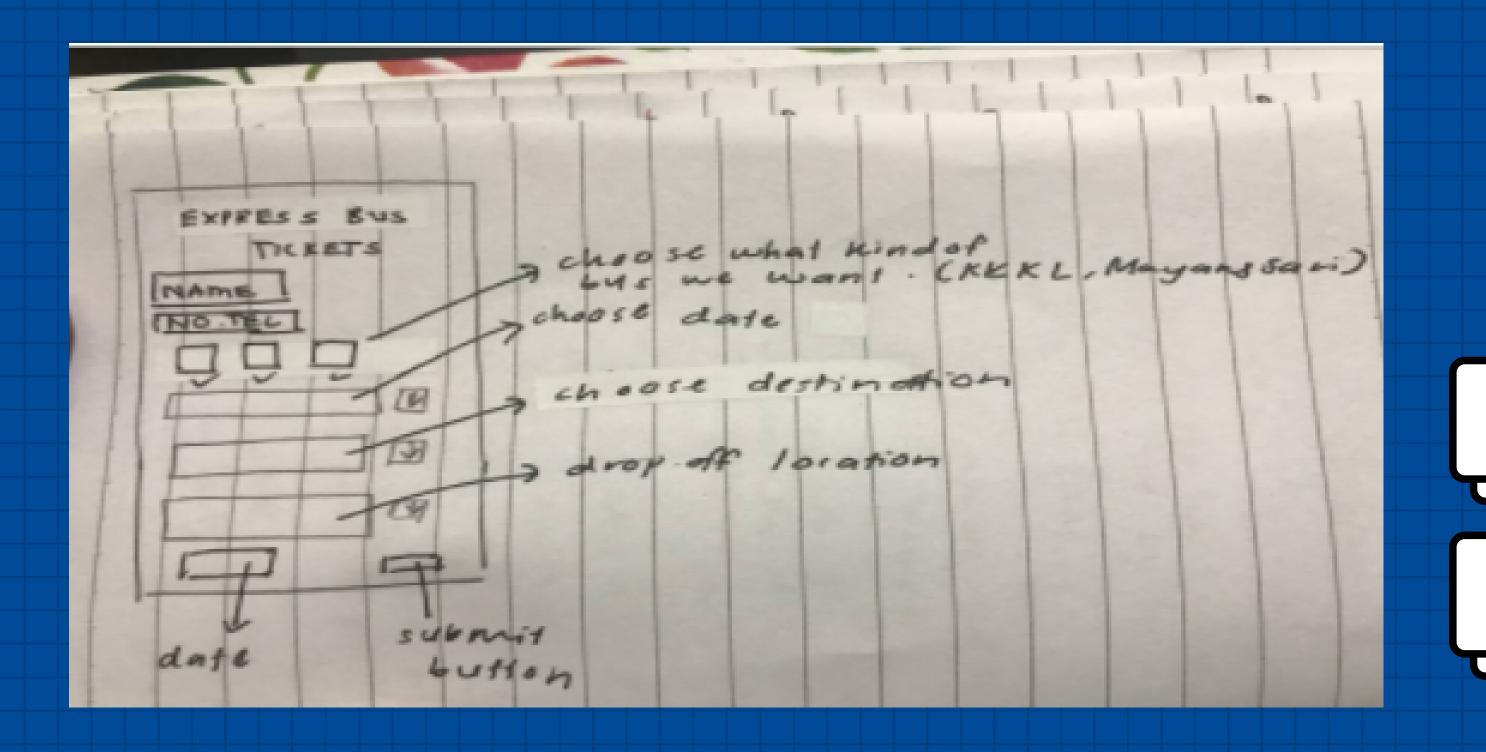
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SKETCHES

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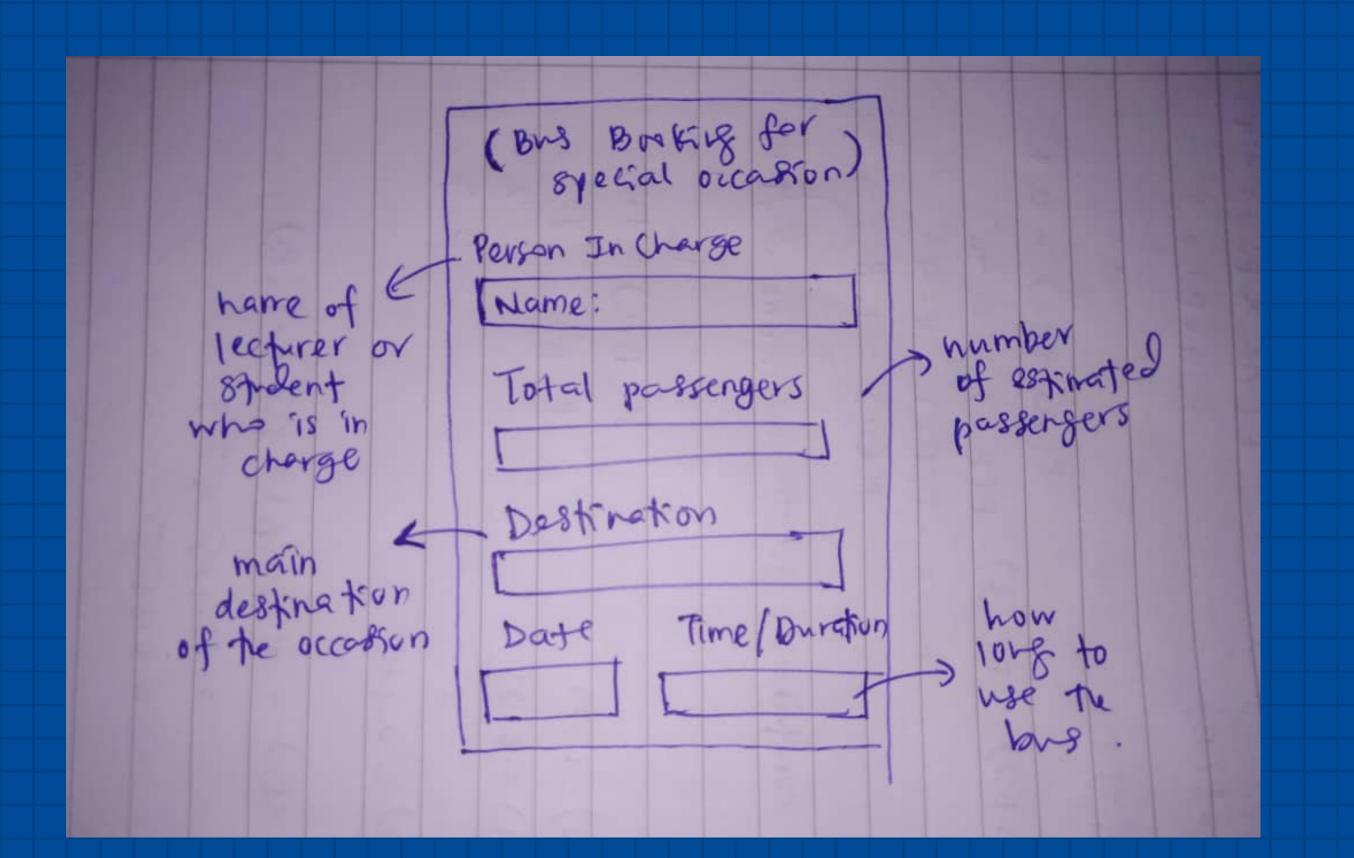
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Save

SKETCHES

Search Q



Save

PROTOTYPE

Search



Main Menu

Bus Ticket Booking

Shuttle Bus Schedule

Special Bus and Bus Locate

Save

TEST

Search

Q

List of feedback questions:

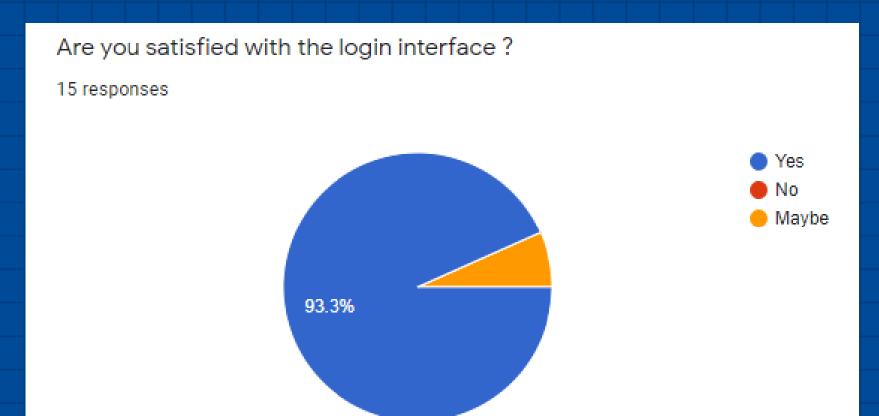
- 1. Status
- 2. Are you satisfied with the login interface?
- 3. Do you think which option is the most beneficial to you?
- 4. Do you think the real-time bus location is beneficial to you?
- 5. Do you think adding express bus ticket booking features would be beneficial for you?
- 6. Do you think access to facilities booking in UTM through Shuttle+ app is beneficial to you?
- 7. Any feedback or suggestions to us ?

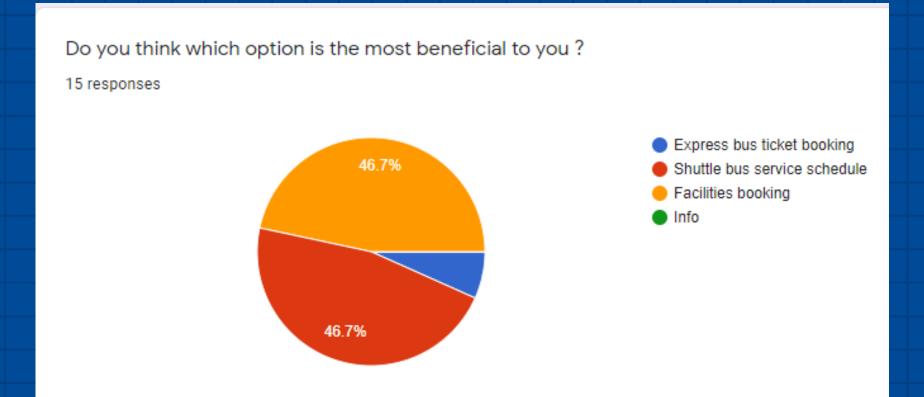
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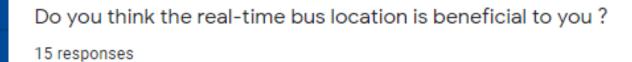
FEEDBACK RESPONSE

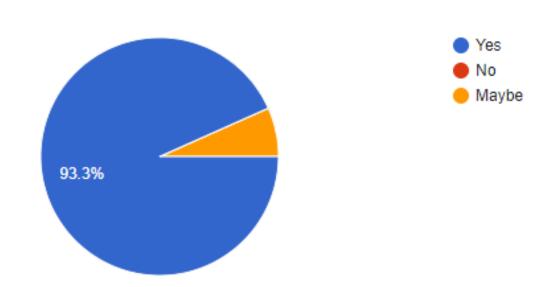
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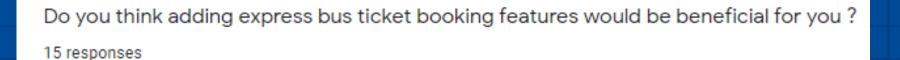
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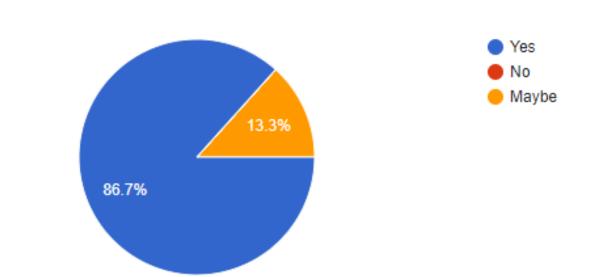












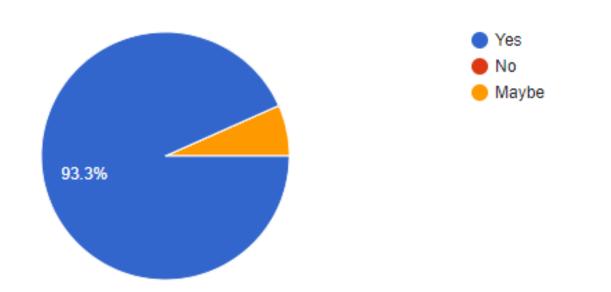
FEEDBACK RESPONSE

Search



Do you think access to facilities booking in UTM through Shuttle+ app is beneficial to you?

15 responses



Any feedback or suggestion to us?
i cant wait to use this apps

i hope this apps is free because it is good!

add a finger print detection

use finger print identification . moree faster log in create a face identification to access the app

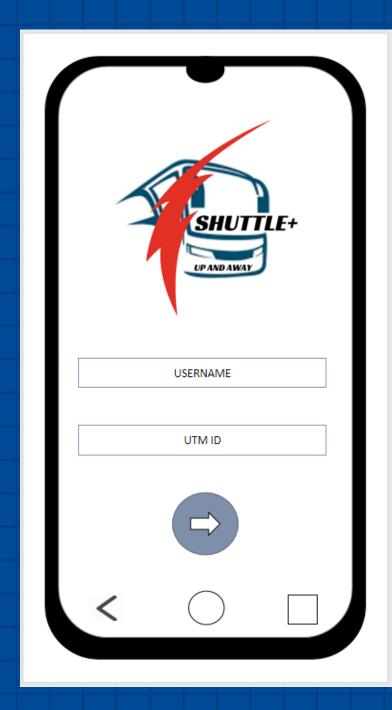
face identification use finger print to log in

limit the transaction amount per day

make sure there is some kind of authorization of the apps i suggest to use the fingerprint to approve the transaction excited to use this Shuttle+

Login & Info Page

Search Q

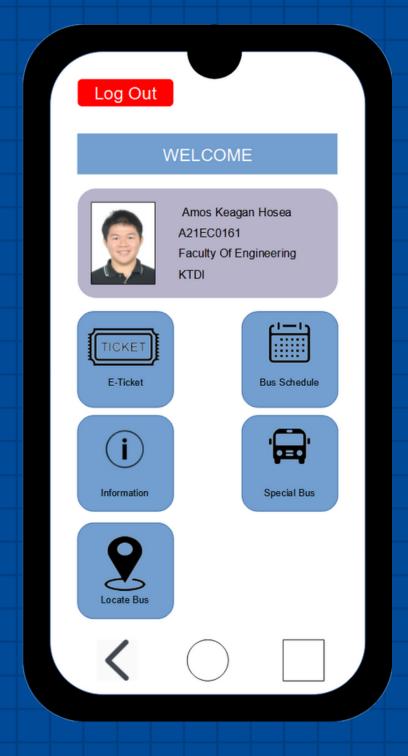


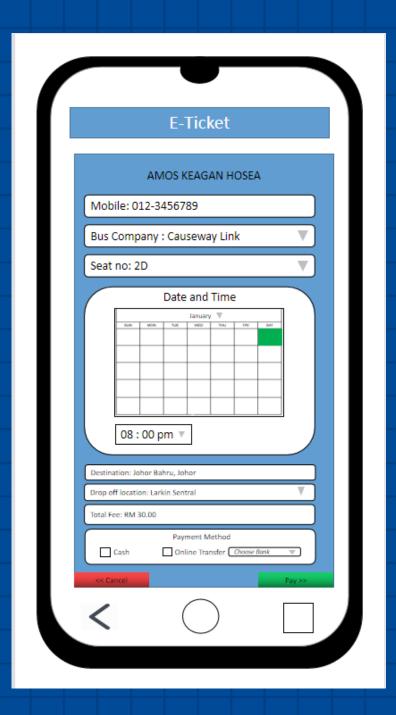


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Main Menu and Ticket Booking

Search Q

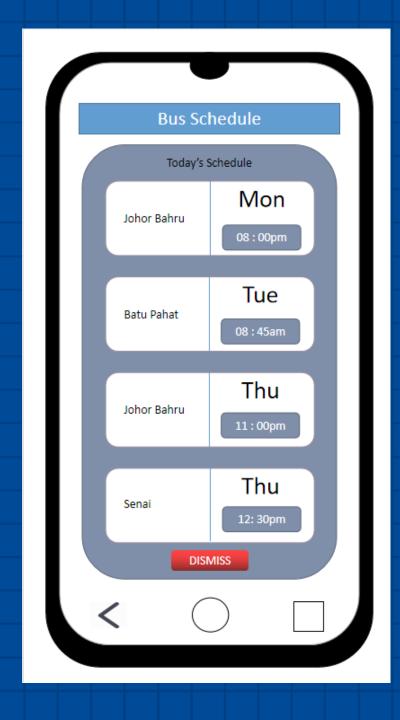


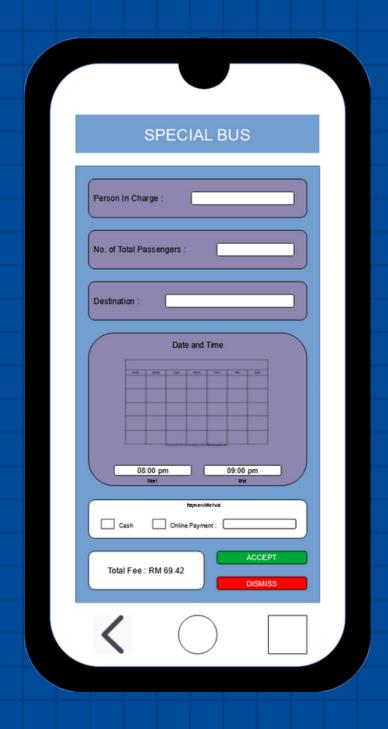


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Shuttle Bus Schedule and Special Bus

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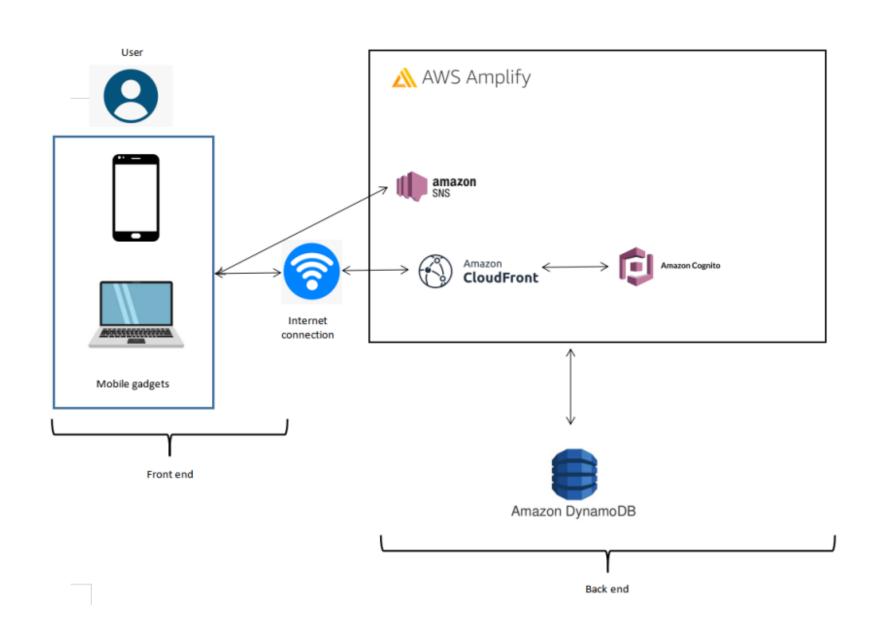
Bus Locate

Search Q

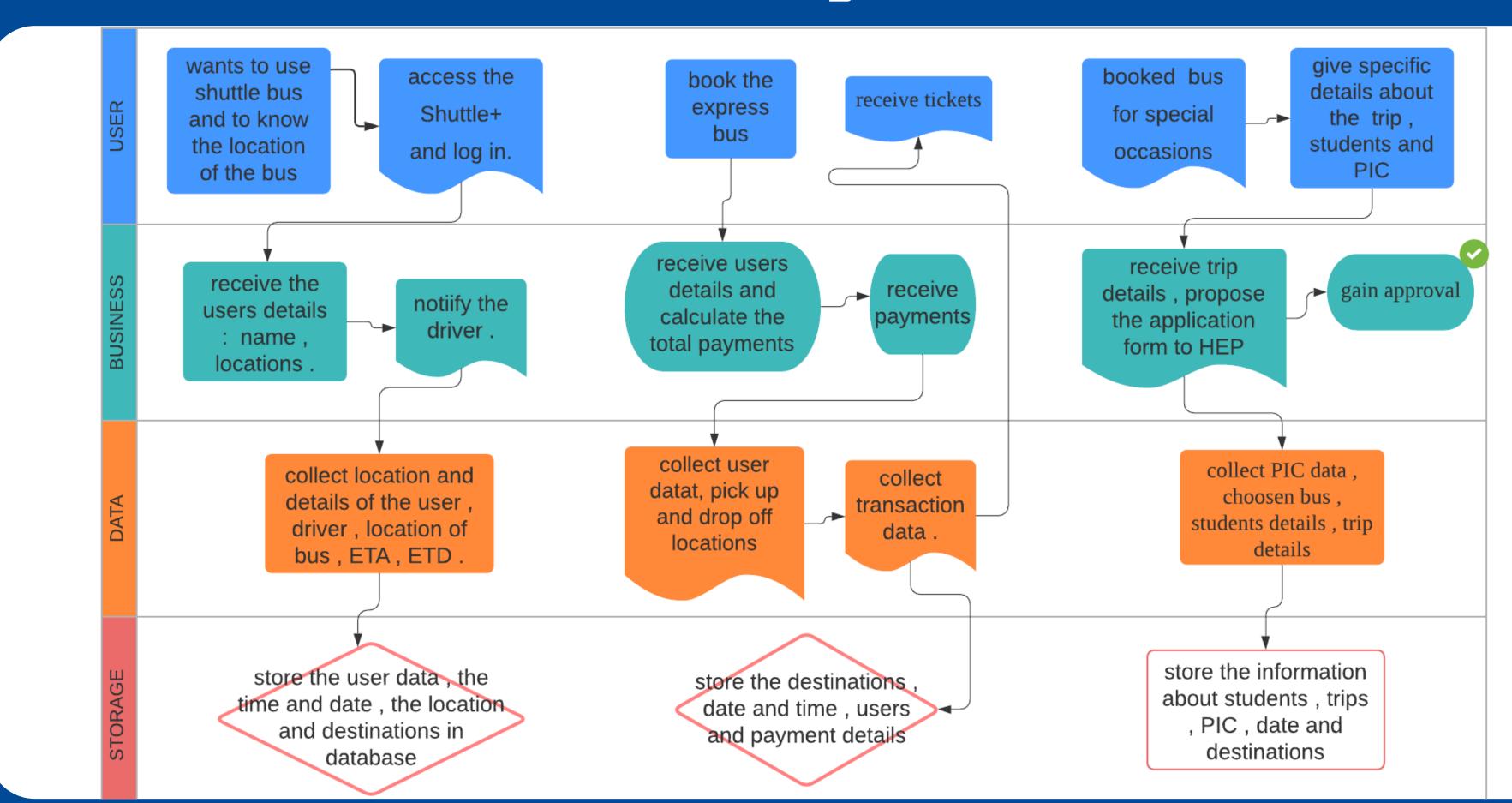


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AWS Architecture Design



Flow Diagram





Thank you!

Until our next petty debate!