

Unified Car Ride App

Module Name: Human Computer Interaction

Module Code: 24COMP12H

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1. Introduction

Problem Statement

With multiple car ride services available, users face challenges in comparing fares and choosing the most cost-effective option. This process involves opening multiple apps, checking availability, fares, and ride options, which is time-consuming and inconvenient.

Proposed Solution

The Unified Car Ride App provides a single platform consolidating all ride-hailing services. Users can compare fares, book the most affordable or convenient ride, and seamlessly interact with existing car ride service apps like Uber and Careem.

2. Objectives

- To provide an integrated platform for fare comparison and ride booking.
 - To save users time by eliminating the need to switch between multiple apps.
 - To offer a user-friendly experience with features like ride history tracking and seamless booking.
-

3. Features

1. **Integration of Multiple Apps:** Aggregates real-time data from various ride-hailing services such as Uber and Careem.
 2. **Fare Comparison:** Displays fare comparisons for a chosen route across all integrated services.
 3. **Direct Booking:** Enables users to book directly through the app without navigating to individual service apps.
 4. **Ride History:** Tracks all bookings for user convenience.
-

4. Design Approach

4.1 Mock-ups & Storyboard

- **Sketches:** Initial sketches outlined the app initial screens.

Storyboard: Demonstrates the user journey:

1. **Installation:**

- Download the Unified Car Ride App from the App Store or Google Play.

2. **Account Creation:**

- Register with your email or phone number.
- Verify your account via OTP.

3. **Login:**

- Use your registered email/phone and password to log in.

Using the App

1. **Search for Rides:**

- Input your destination on the home screen.
- View a list of ride options from integrated services with fare comparisons.

2. **Book a Ride:**

- Select the desired option and confirm booking.
- Add payment information if prompted.

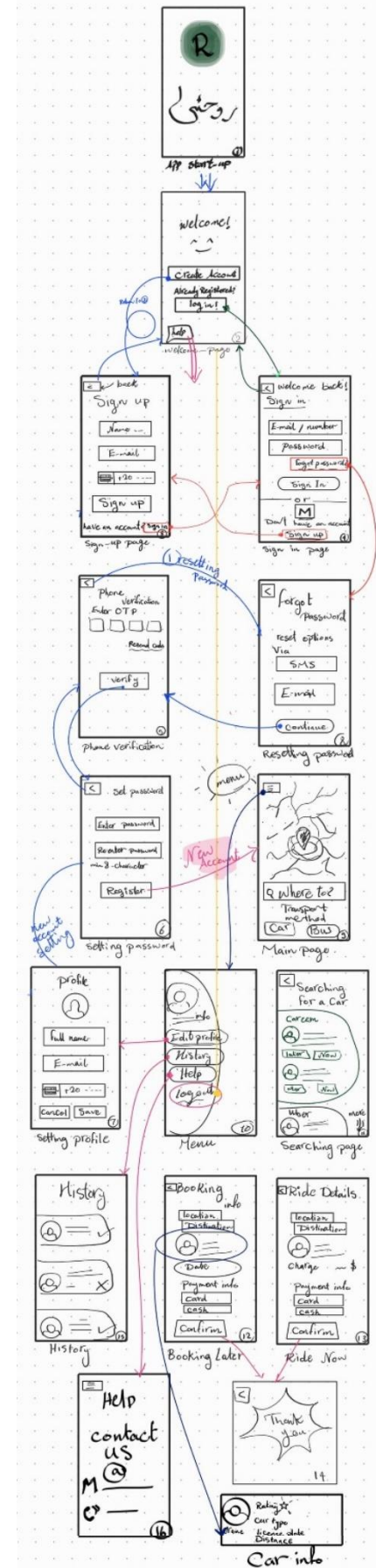
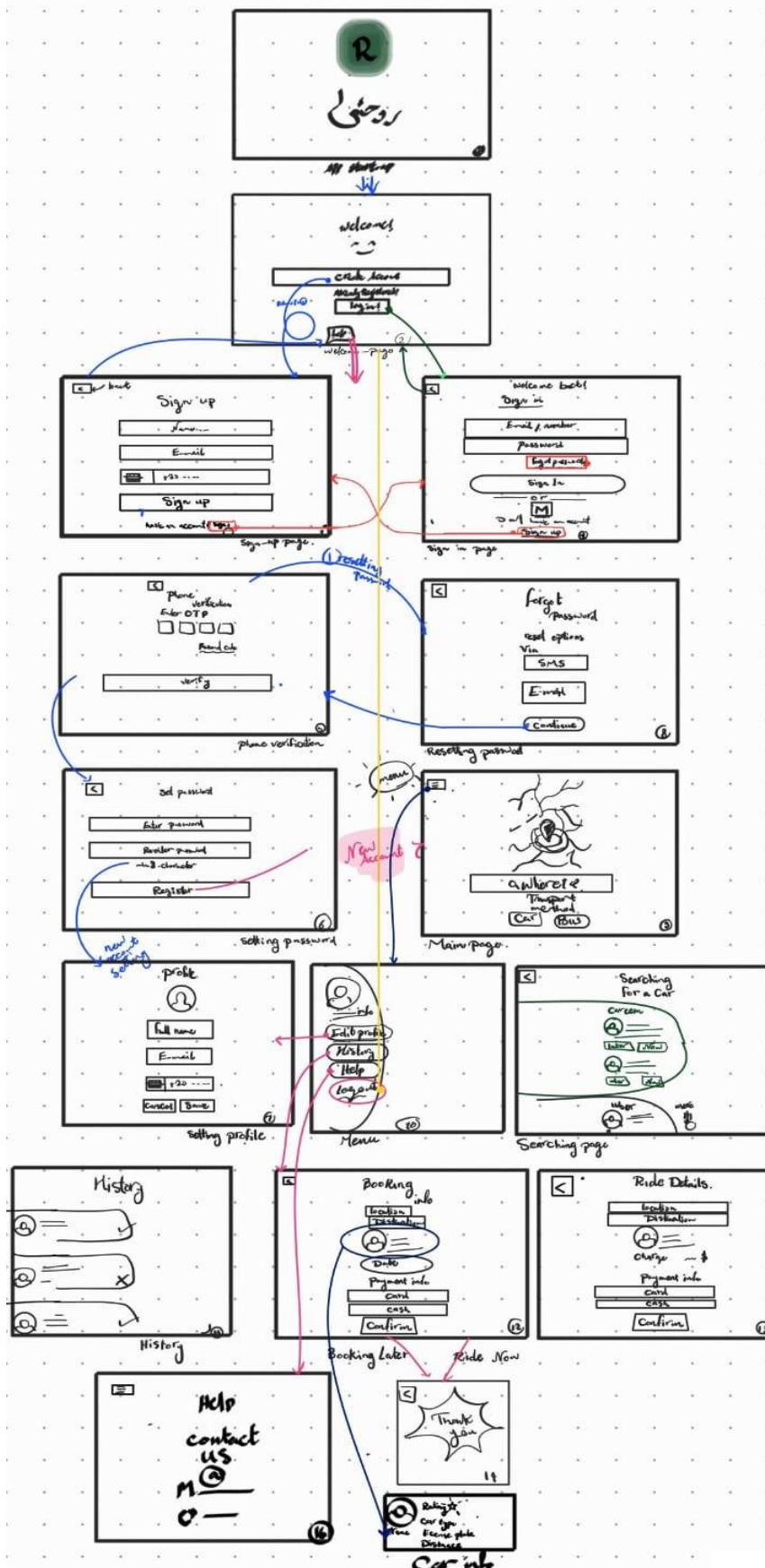
3. **Track Ride History:**

- Access the ride history screen to view past bookings.

6.3 Settings

- **Profile Management:** Update personal details and preferences.

1st Design website interface sketch

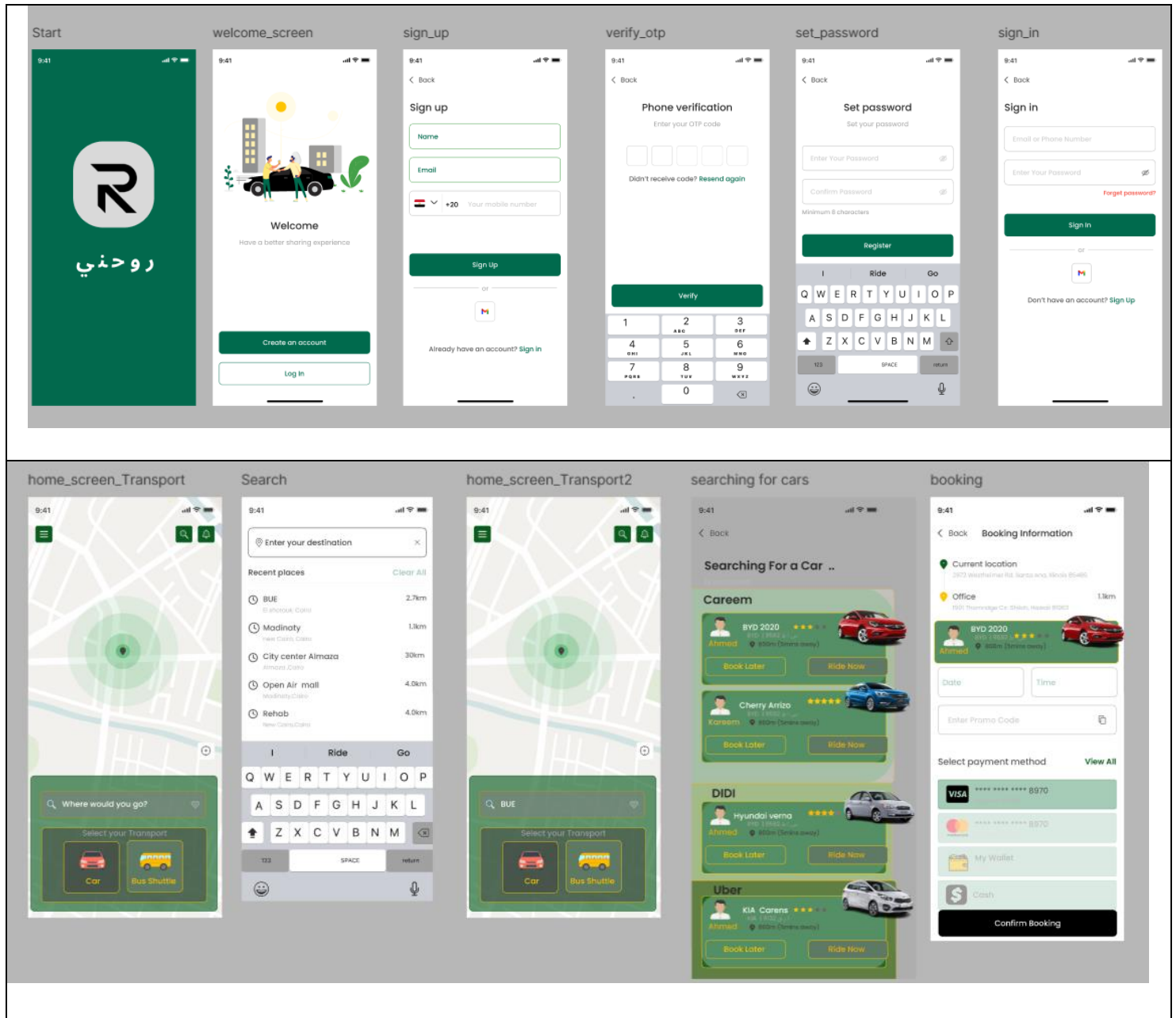


1st Design mobile app interface sketch

4.2 Prototypes

- **Tool Used:** The app prototype was created using Figma, featuring detailed wireframes and interactive functionality to simulate the app's user experience.

1st Prototype mobile interface Figma design:



sign_in

9:41

< Back

Sign in


Email or Phone Number

Enter Your Password

Forgot password?

Sign In

OR



Don't have an account? [Sign Up](#)

send_verification

9:41

< Back

Verification email or phone number

Email or phone number

Send OTP

Forgot Password

9:41

< Back

Forgot Password

Select which contact details should we use to reset your password

Via SMS *****70

Via Email *****xyz@xyz.com

Continue

phone_verify_otp

9:41

< Back

Forgot Password

Code has been send to *****70

Did't receive code? [Resend again](#)

Verify

set_new_password

9:41

< Back

Set New password

Set your new password

Enter Your New Password

Confirm Password

Minimum 8 characters

Save

QWERTYUIOP
ASDFGHJKL
ZXCVBNM
123 SPACE return

ride details

9:41

< Back Ride Details

Current location
2372 Westheimer Rd, Santa Ana, Illinois 60408

BUE
1001 Thornridge Cir, Shikoh, Hawaii 80041
1.8km

BYD 2020
4.5 (4482) 4.0
Ahmed (Driver's license)

Charge
Mustang(per hour) \$200
Vat (5%) \$20
Promo Code -\$5

Select payment method [View All](#)

VISA **** * 8970

My Wallet


Cash

Confirm Ride

Thank_you

9:41

< Back




Thank you

Your booking has been placed sent to Mr. Sharif Ahmed

menu_screen

< Back



Ahmed
nate@gmail.com

Edit Profile

History

About Us

Help and Support


Logout

Delivery

Profile


9:41

Edit Profile



Ahmed

nate@gmail.com

 Your mobile number

Male

Address

Update

History_Completed

9:41

< Back History

Driver: Ahmed Aly
Date:22 october 4:45
Car:BYD blue [Done](#)

Driver: Hossamaly
Date:21 october 3:45
Car:Hyundai elentra [Cancelled](#)

Driver: Samia Hatem
Date:19 october 4:45
Car:BYD Black [Done](#)

Driver: Raouf Mohamed
Date:18 october 1:42
Car:Chevrolet elentra [Done](#)

Driver: Hossamaly
Date:17 october 3:45
Car:Hyundai elentra [Cancelled](#)

About us

9:41

< Back


About Us

Welcome to Rawwahni! We are dedicated to simplifying your ride experience by providing a platform that compares the prices of all major ride apps in one place. Our mission is to help you save time and money by offering transparent and convenient ride comparison services.

Founded in 2024, Rawwahni aims to empower users with the tools they need to make informed decisions when it comes to choosing the best ride option. Whether you're commuting to work, heading to the airport, or exploring a new city, we've got you covered.

Thank you for choosing Rawwahni. We're here to make your journey smoother and more affordable.

Help Center



Help Center

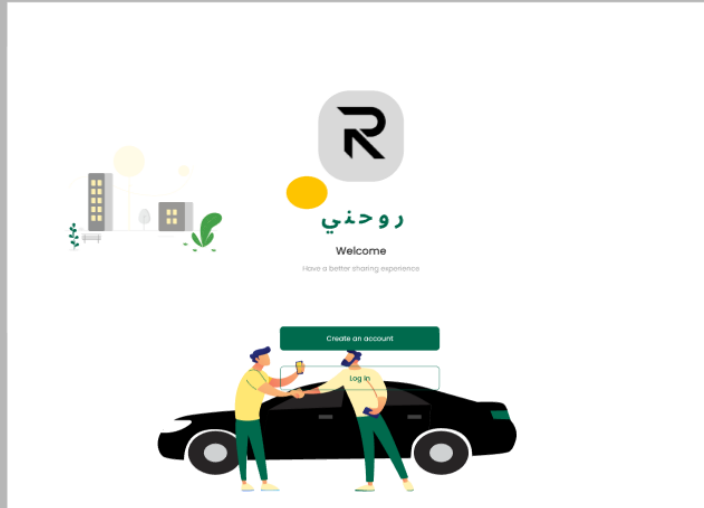
Describe your problem or complaint below:

Write your problem or complaint here...

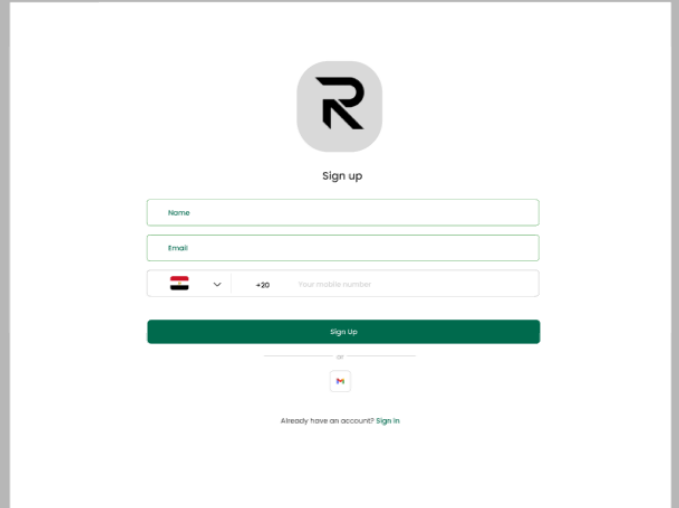
SEND

1st Prototype website Figma design:

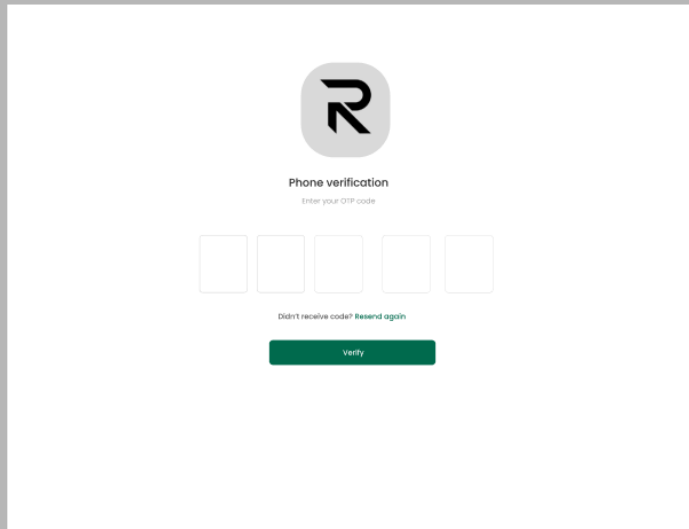
welcome_screen



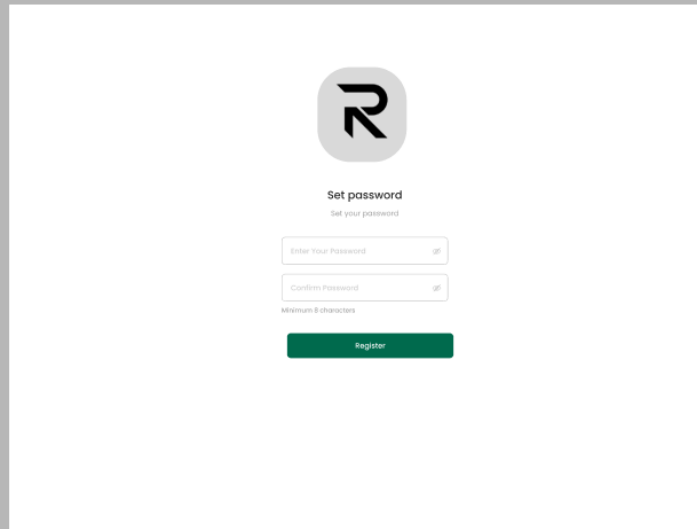
sign_up



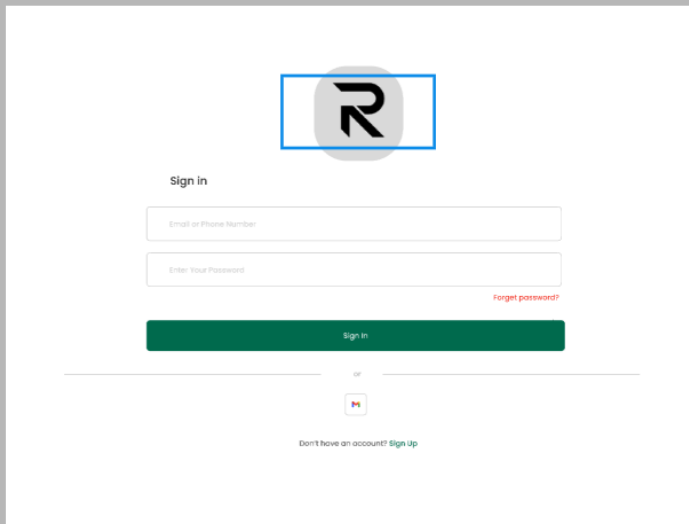
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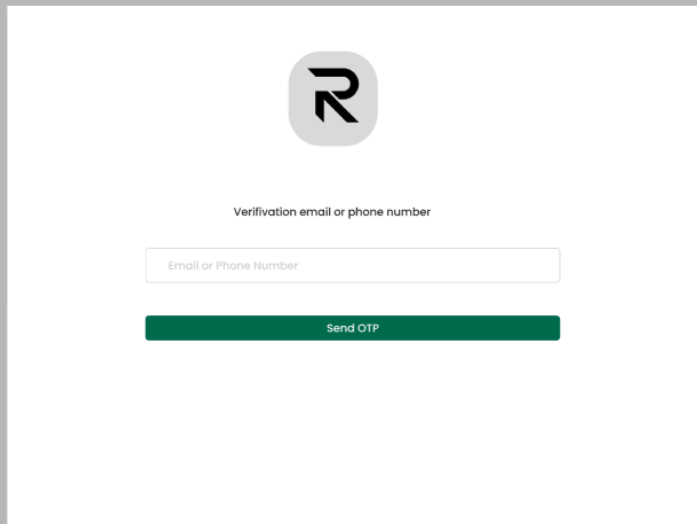
set_password

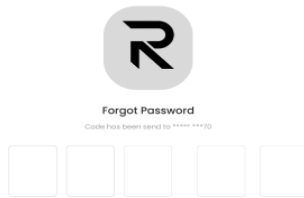


sign_in



send_verification



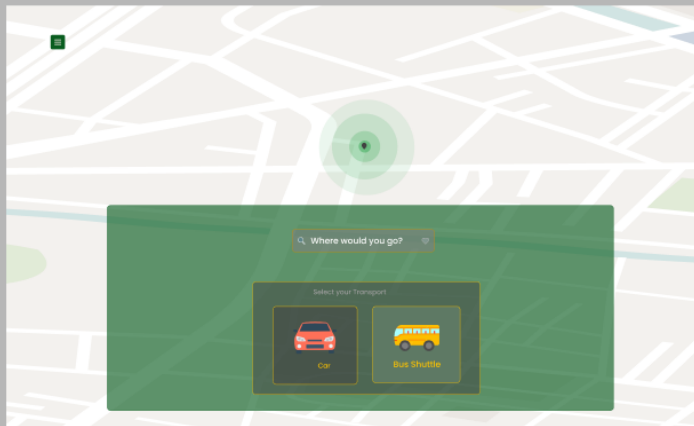
Didn't receive code? [Resend again](#)

Verify

Enter Your New Password 1234Confirm Password 1234

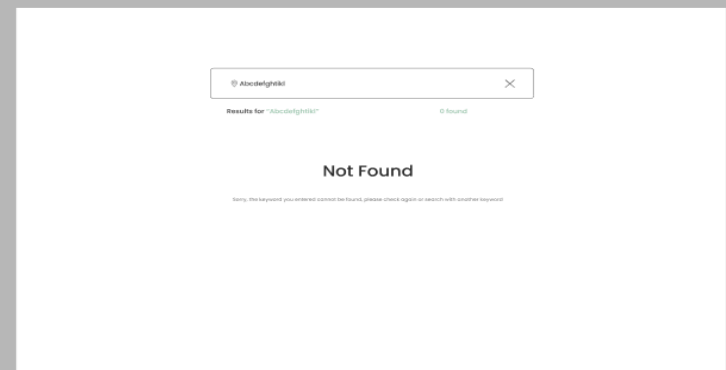
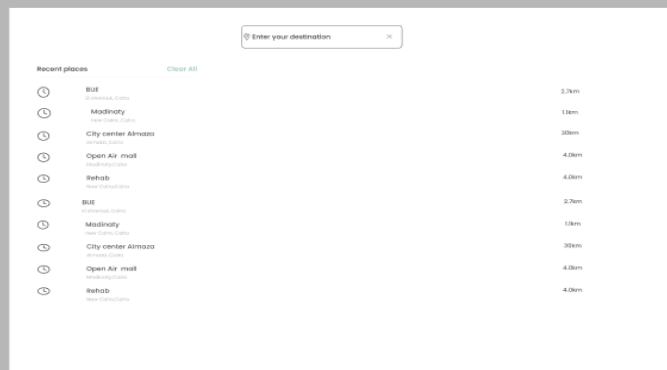
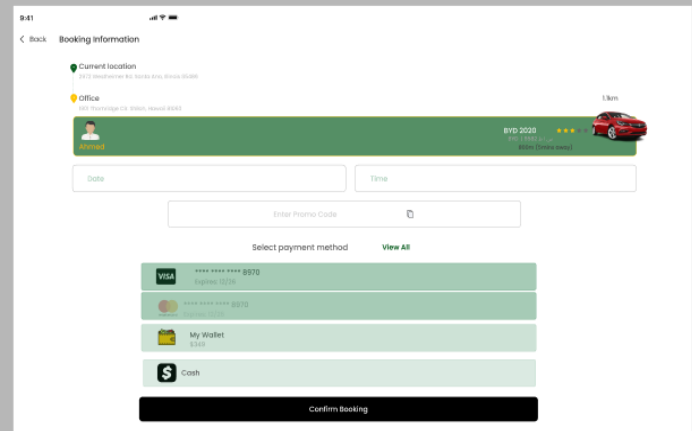
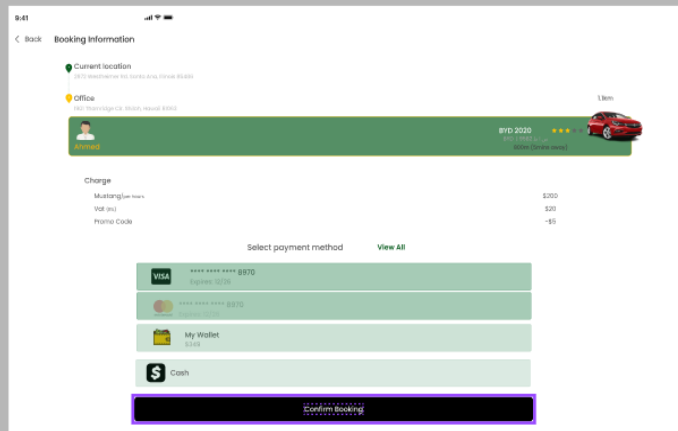
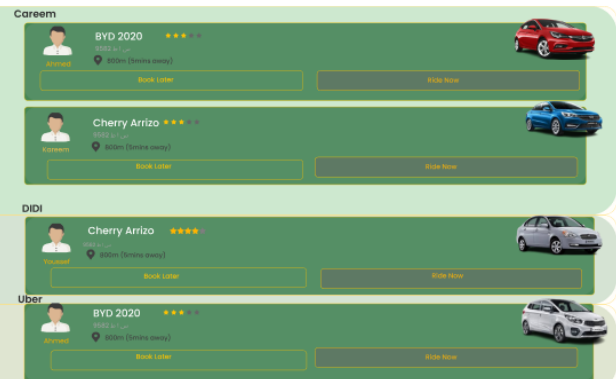
Minimum 8 characters

Save



Searching For a Car ..

8 cars found



Thank_you



Thank you

Your booking has been placed and is on its way to you.

Menu_screen



Ahmed

nate@gmail.com

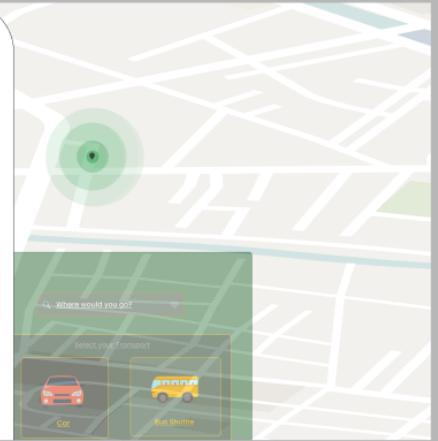
Edit Profile

History

About Us

Help and Support

Logout



Profile



Ahmed

Name

Email

+20

Your mobile number

Update

History_Completed

History

Driver: Ahmed Ali Date: 23 October 2024 Car: Toyota Camry	Done
Driver: Incomplete Date: 23 October 2024 Car: Toyota Camry	Cancelled
Driver: Sameer Hassan Date: 23 October 2024 Car: Toyota Camry	Done
Driver: Sameer Hassan Date: 23 October 2024 Car: Toyota Camry	Done
Driver: Sameer Hassan Date: 23 October 2024 Car: Toyota Camry	Cancelled

About Us



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Thank you for choosing Rawahni. We're here to make your journey smoother and more affordable.



Help Center



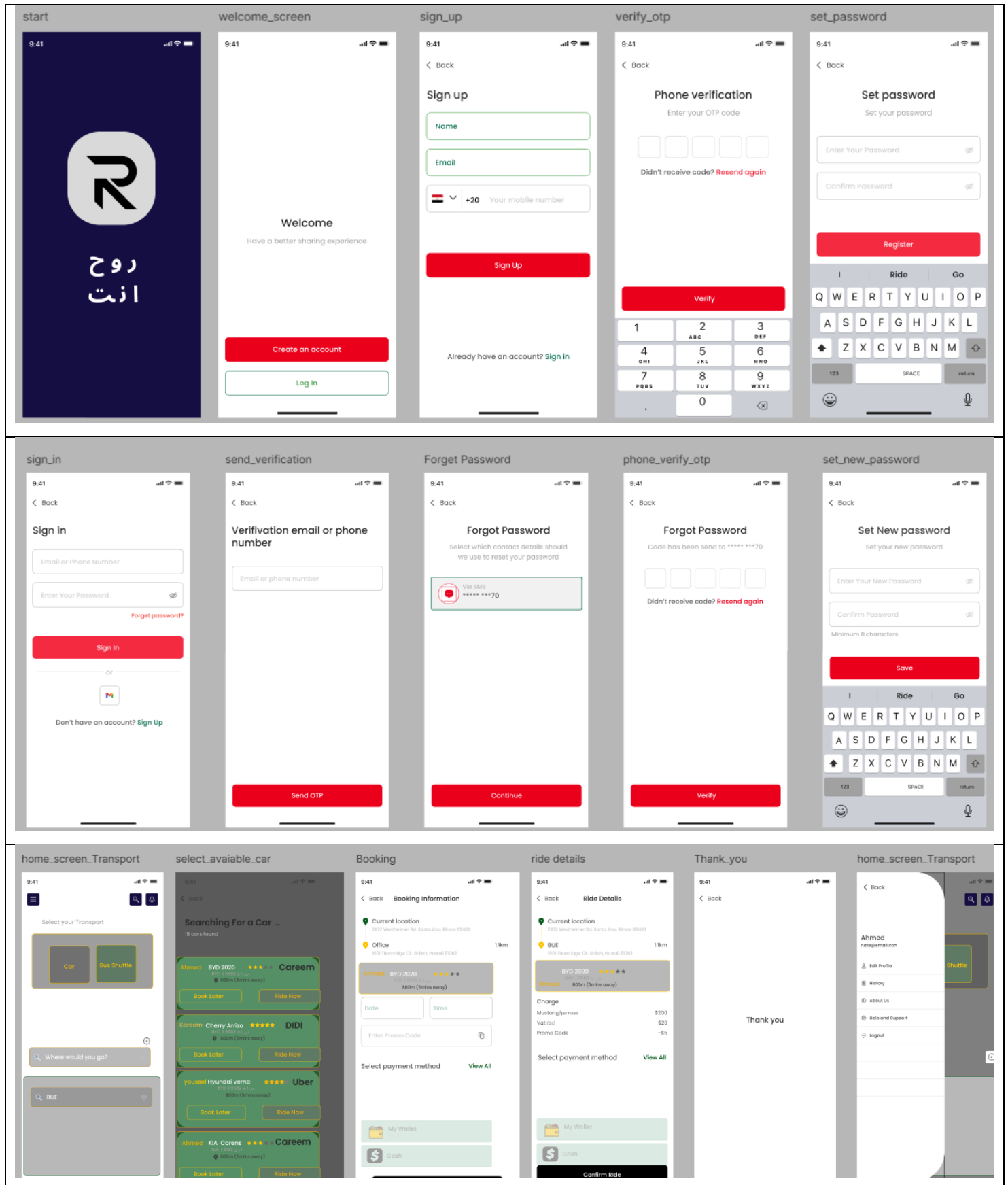
Help Center

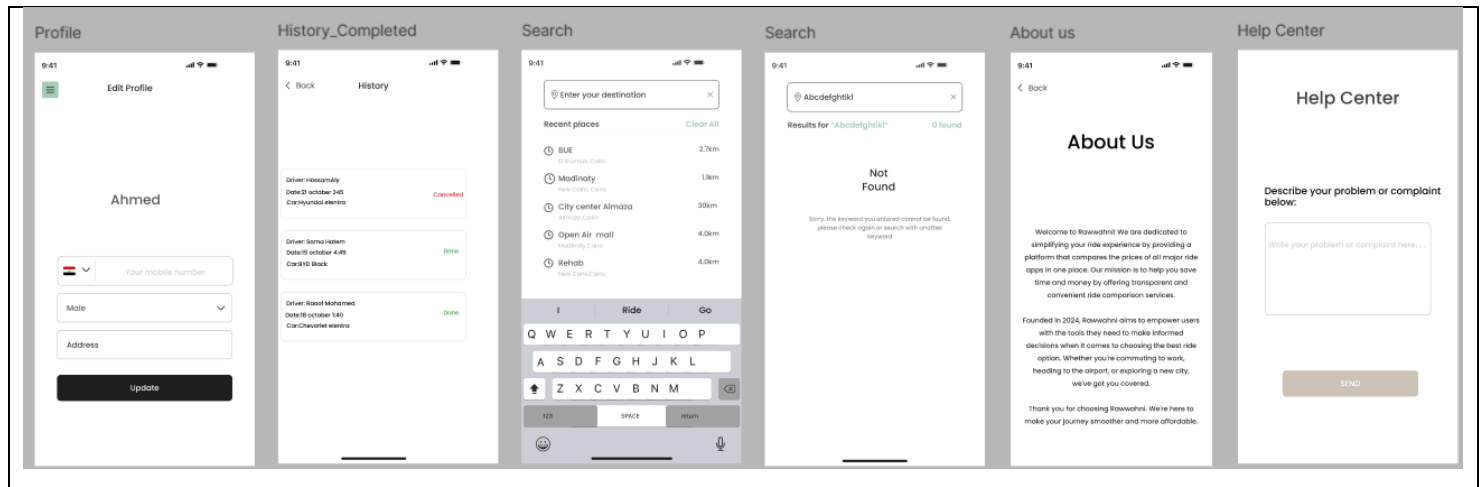
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Write your problem or complaint here...

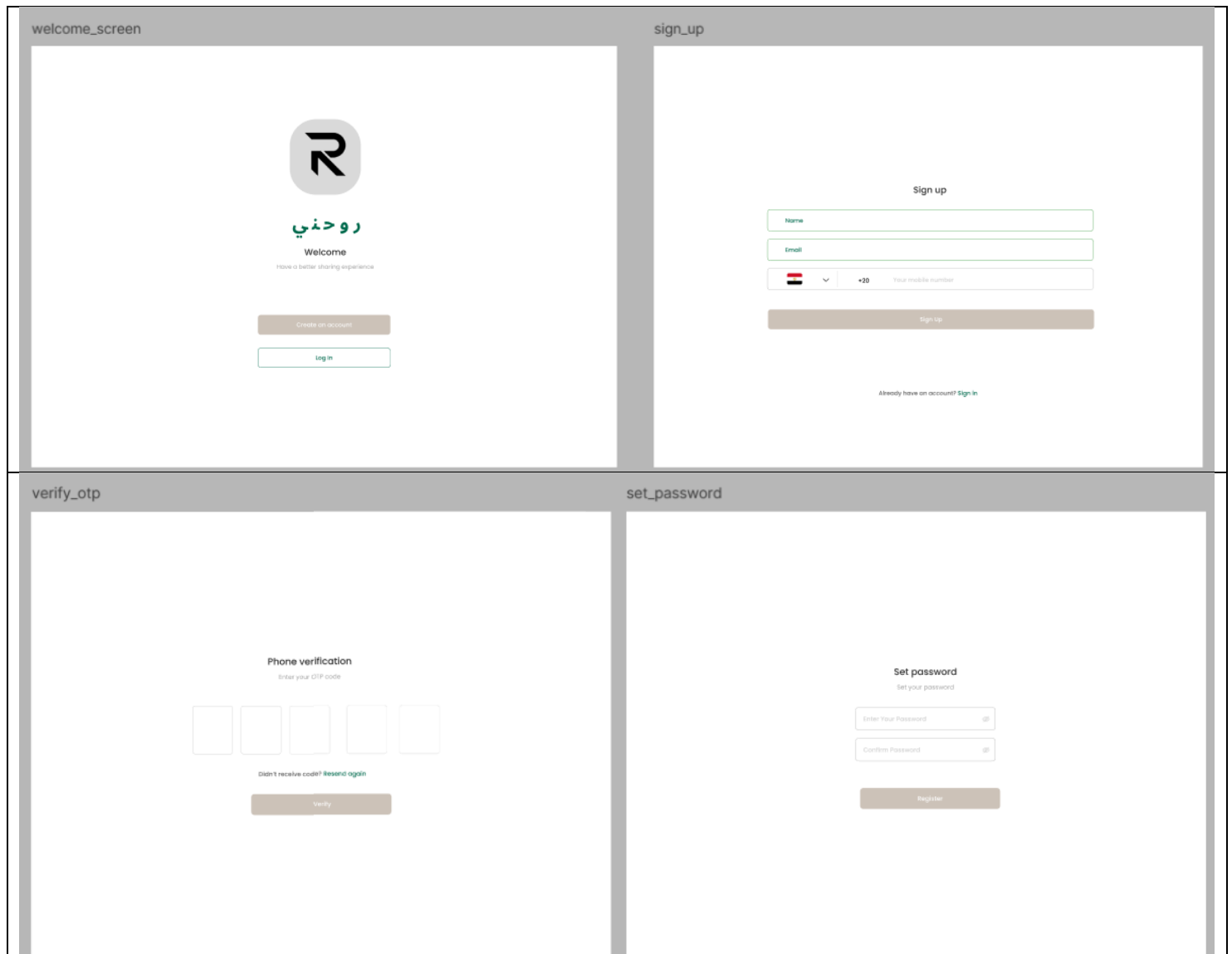
SEND

2nd Prototype mobile interface design:





2nd Prototype website design:



sign_in

Sign in

Email or Phone Number

Enter Your Password

Forgot password?

Sign in

Don't have an account? [Sign up](#)

send_verification

Verifivation email or phone number

Email or Phone Number

Send OTP

phone_verify_otp

Forgot Password

Code has been send to *****

Didn't receive code? [Resend again](#)

Verify

set_new_password

Set New password

Set your new password

Enter Your New Password

OTP

Confirm Password

OTP

Save

Forget Password

Forgot Password

Select which contact details should we use to reset your password



You can use *****

Continue

home_screen_Transport



Car

Bus Shuttle

Where would you go?

Select your Transport

Car

select_available_car

Searching For a Car ..

10 cars found

Arrived

BYD 2020

2022 1.7 L

800m (5 mins away)

Book Later

Ride Now

Careem

Available

Cherry Arrizo

2022 1.7 L

800m (5 mins away)

Book Later

Ride Now

Uber

You used

Cherry Arrizo

2022 1.7 L

800m (5 mins away)

Book Later

Ride Now

DIDI

Arrived

BYD 2020

2022 1.7 L

800m (5 mins away)

Book Later

Ride Now

Uber

Search

Enter your destination

Recent places

Clear All

1

BUE

2 Al Mansab, Cairo

2.7km

1

Madinet

near Cairo, Cairo

1.1km

1

City center Almazra

Almazra, Cairo

20km

1

Open Air mall

Madinet, Cairo

4.0km

1

Rehab

near Cairo, Cairo

4.0km

1

BUE

2 Al Mansab, Cairo

2.7km

1

Madinet

near Cairo, Cairo

1.1km

1

City center Almazra

Almazra, Cairo

20km

1

Open Air mall

Madinet, Cairo

4.0km

1

Rehab

near Cairo, Cairo

4.0km

Thank_you

Thank you

Your booking has been placed sent to us. Thank you!

request_rent

9:41

Back

Booking information

Current location

2070 Westheimer Rd, Santa Ana, Alaska 92400

Office

800 Pennsylvania Ct, Santa Ana, Alaska 92400

1.1km

Arrived

BYD 2020

2022 1.7 L

800m (5 mins away)

Charge

Mailing Service

Wash Fee

Promo Code

\$200

\$20

-\$5

Select payment method

View All

My Wallet

\$1.00

Cash

Confirm Booking

Booking

9:41

Back

Booking information

Current location

2070 Westheimer Rd, Santa Ana, Alaska 92400

Office

800 Pennsylvania Ct, Santa Ana, Alaska 92400

1.1km

Arrived

BYD 2020

2022 1.7 L

800m (5 mins away)

Date

Time

Enter Promo Code

Select payment method

View All

My Wallet

\$1.00

Cash

Confirm Booking

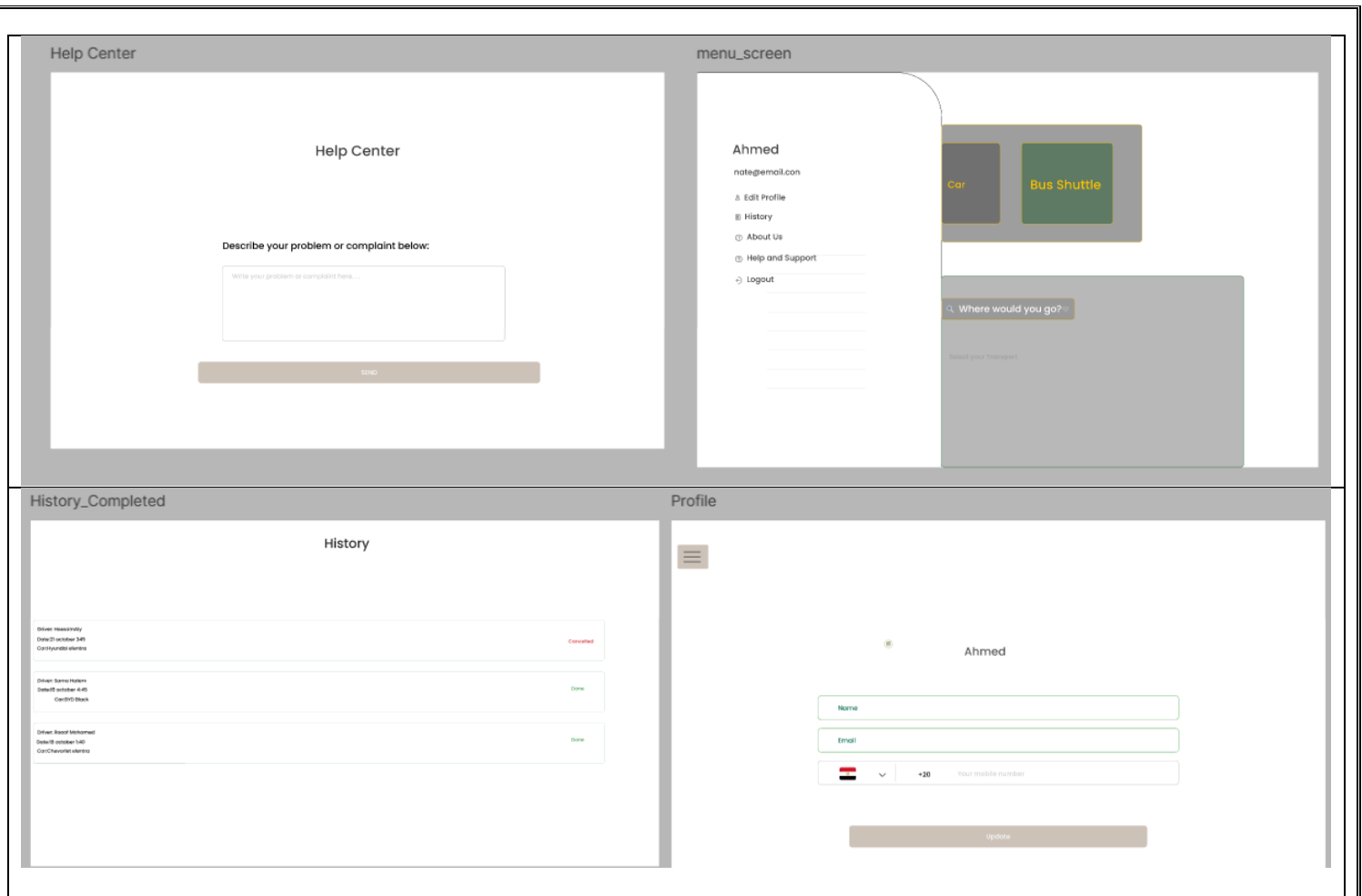
About Us

About Us

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Thank you for choosing Rawwahn! We're here to make your journey smoother and more affordable.



5- Prototype Evaluation and Selection

1. Evaluation Criteria

To choose the better prototype, the following criteria were considered:

- **Visual Appeal:** How aesthetically pleasing the design is.
- **Usability:** How intuitive and user-friendly the interface is.
- **Information Accessibility:** How effectively the information is presented.
- **User Engagement:** The level of interactivity and engagement provided by the design.

2. Comparison of Prototypes

Criteria	Prototype 1	Prototype 2
Visual Appeal	Includes vibrant graphics and structured layouts.	Minimal graphics, less visually engaging.
Usability	Easy navigation with well-organized elements.	Slightly cluttered and harder to navigate.
Information Display	Displays car models, offers, and driver pictures.	Limited details, missing driver and car photos.
User Engagement	Offers a visually engaging experience with images.	Relies on text-heavy content.

3. Reasons for Choosing Prototype 1

Prototype 1 was selected for the following reasons:

- Visually Appealing:** The addition of pictures and graphics enhances the overall aesthetic, making the app more attractive to users.
- Structured Design:** Transportation companies are listed in a clear order, allowing users to quickly find and choose their desired car.
- Enhanced Information Display:** Car models are displayed alongside each car offer, providing users with detailed information briefly. Additionally, the inclusion of driver pictures personalizes the user experience.
- User-Focused Interaction:** The design focuses on simplifying decision-making by presenting all relevant details in an organized and visually engaging manner.

6. Conclusion

The Unified Car Ride App simplifies the process of comparing and booking rides, effectively addressing the common pain point of switching between multiple apps to find the best option. By consolidating multiple ride-hailing services into one platform, the app significantly reduces the time spent on fare comparisons and enhances overall convenience.

Through careful evaluation, **Prototype 1** was chosen as the superior design due to its alignment with human-centered design principles. It focuses on user needs and preferences with a structured layout, visually appealing elements, and user-friendly features. The design enhances usability by:

- Organizing transportation companies in a clear and logical order.
- Including detailed information such as car models, fare options, and driver pictures.
- Leveraging engaging visuals like graphics and icons to improve the user experience.

These features contribute to increased user satisfaction and efficiency, making the Unified Car Ride App a practical and intuitive solution for ride-hailing needs.