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INTERNET PROGRAMMING (J2EE) AND MOBILE PROGRAMMING

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DeyGo App Documentation

System Overview

DeyGo is a powerful and intuitive passenger positioning system designed to facilitate seamless communication and efficient coordination between drivers and passengers. With its user-friendly interface and comprehensive set of features, DeyGo revolutionizes the way drivers identify passenger locations and enables passengers to conveniently notify drivers of their whereabouts. By offering user authentication, customizable user roles, and a range of functionalities for both drivers and passengers, DeyGo ensures a smooth and reliable experience for all users.

Key Features

User Authentication: DeyGo prioritizes the security and privacy of its users by implementing a robust user authentication system. This ensures that only authorized individuals can perform certain high level actions on the app, guaranteeing a secure environment for both drivers and passengers.

User Roles (Driver and Passenger): DeyGo incorporates a flexible user role system that distinguishes between drivers and passengers. By assigning specific privileges and capabilities to each role, the app tailors the user experience and optimizes functionality for the respective user groups.

Passenger Functionality

Location Specification: Passengers can effortlessly specify their current location within the app, eliminating the need for cumbersome manual address sharing. DeyGo provides a convenient interface for passengers to input their location details accurately and efficiently.

Profile Editing: Passengers have the freedom to personalize their profiles by editing and updating their information. This enables users to provide relevant details such as profile pictures, contact information, and any preferences that can enhance their overall experience.

Ride Requests: DeyGo facilitates the process of requesting private rides by passengers. With a few simple taps, passengers can submit their ride requests,

including desired pick-up and drop-off locations, ensuring that drivers receive all the necessary information for efficient trip planning.

Payments: The app incorporates a secure payment system that allows passengers to conveniently make payments for their rides. DeyGo supports various payment methods, ensuring a seamless and hassle-free transaction process.

Driver Tracking: Passengers can track the real-time location of their assigned drivers within the app. This feature provides passengers with visibility and peace of mind, as they can monitor their driver's progress towards the pick-up location, resulting in a smoother and more reliable pick-up experience.

Driver Functionality

Ride Request Acceptance: Drivers using DeyGo can accept incoming ride requests from passengers. The app provides a straightforward interface for drivers to review essential ride details, such as the passenger's location and destination, allowing them to make informed decisions when accepting or rejecting requests.

Directions to Destinations: Once a ride request is accepted, DeyGo offers drivers convenient and accurate directions to the passenger's specified destination. This feature leverages advanced mapping technology to provide turn-by-turn navigation, ensuring drivers reach their passengers efficiently and on time.

Profile Editing: Similar to passengers, drivers can also modify their profiles to provide relevant information. This allows drivers to showcase their expertise, display profile pictures, and update contact details, enabling passengers to have a more personalized and reliable ride experience.

Additional Features

In addition to the core functionalities mentioned above, DeyGo offers a range of supplementary features to enhance the overall user experience. Some of these features are not currently included in this version(V1) of the app but will be updated in future iterations. These include:

Ratings and Reviews: Passengers can rate and review their experience with drivers, promoting transparency and accountability within the DeyGo community.

In-app Messaging: A built-in messaging system enables seamless communication between drivers and passengers, ensuring clear and efficient coordination.

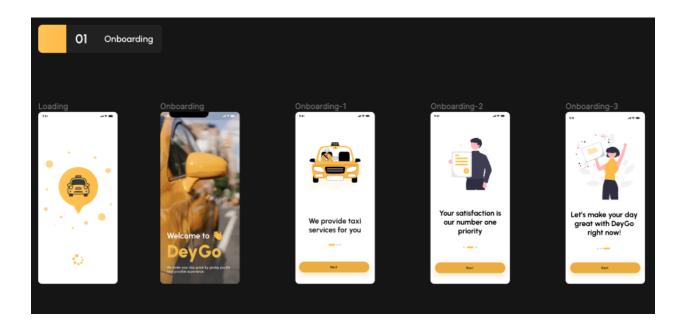
Trip History: DeyGo keeps a record of past rides, allowing users to review their ride history, track expenses, and access essential trip information for reference purposes.

Notifications: The app sends timely notifications to both drivers and passengers, providing updates on ride status, payment confirmations, and other relevant information.

Experience DeyGo here

App Navigation

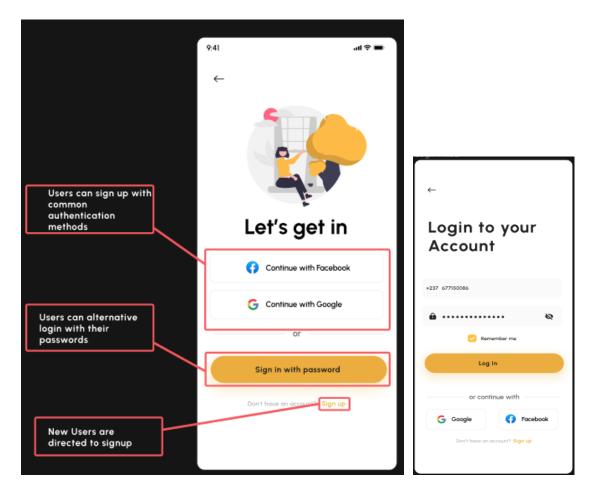
1. Onboarding



The onboarding screens present the application and it's name to the users, and highlights the general services it provides for both passengers and drivers, which is mainly making their tasks of finding drivers or passengers easier

2. Authentication

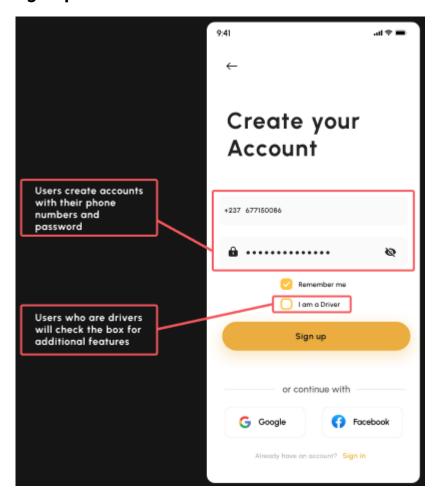
Sign in



The sign in page of DeyGo is composed of:

- Common authentication methods such as sign in with Facebook and sign in with Google
- A button redirecting users to sign in with their password and phone number
- A redirection link to the sign up page for users who have not created accounts yet.

Sign Up



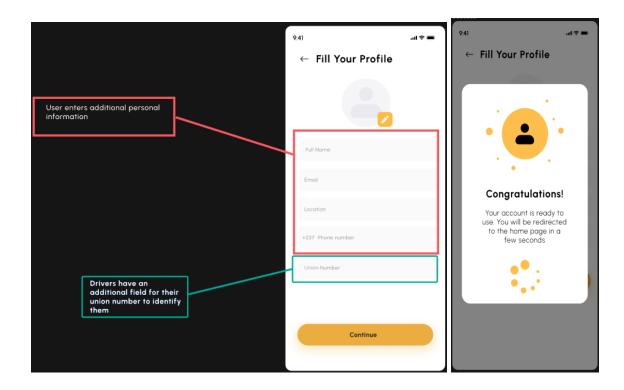
The page to create an account is composed of the following parts:

- Input fields to fill in personal information. Users create their accounts with their phone numbers and a password.
- A check box to indicate if they are a driver. Since the application is used by both passengers and drivers, drivers would need to indicate when they're creating their accounts.
- Options to sign up with common authentication methods like Signup with Google and Signup with Facebook
- A link that redirects users to the *Sign In* page if they already have an account.

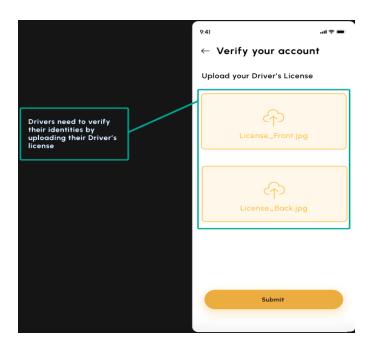
3. Account Setup

When users have logged into their accounts, they will be able to add other personal information. This information includes:

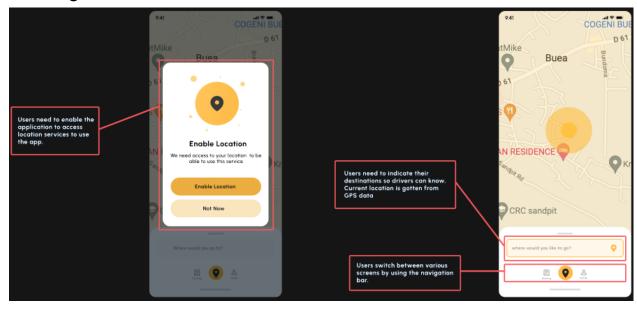
- Full name
- Email
- Location
- Phone Number
- Union Number for Driver



Drivers would need to upload images of their driving license in order for their their accounts to be verified.

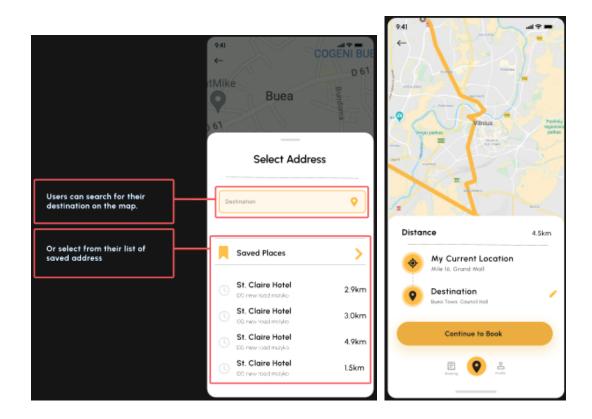


4. Passenger's Home



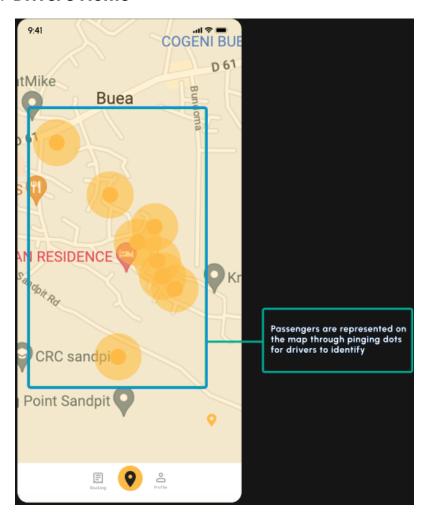
- Before the passenger is directed to the Home page, they will need to enable the application to access location services. This is done by pressing the Enable Location button on the modal. If they would prefer not to use location services, they could always select the Not Now button.
- After this step, they are directed to a home page where they could just input their destinations in the input section. This would help drivers to

know where there are more passengers. The current location is gotten from GPS data so passengers who have their location disabled would be unable to access this feature.



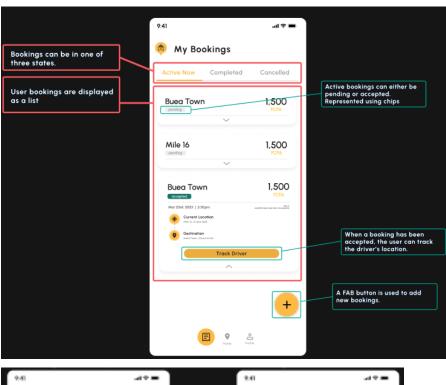
- Passengers would also be able to select a destination from a list of *Saved Places*, which includes locations that have been saved on the map.
- The bottom navigation bar enables users to easily switch between screens to view and modify content.
- When the destination is selected, user's would be able to view;
 - The distance from their current location to their destination.
 - The name of the current location and the destination's name
 - A button which redirects them to the *Booking* page in case they would like to book a taxi for personal use.
 - Passengers would also be provided with the ability to edit the destination if need be.

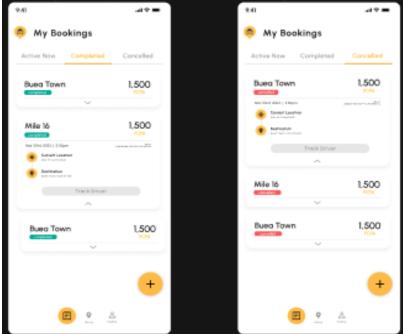
5. Driver's Home



Driver's are able to identify passenger's on their map through pinging dots. This would help indicate to the driver the locations where more passengers are congested.

6. Taxi Booking





The Passenger's Bookings Page has the following components:

- A menu showing the three (03) states a booking can be in and grouping the groupings into these states
- A list of bookings

- Options to track the driver when the booking has been accepted
- A FAB button used to add new bookings

The various states a booking can be in include:

- Active Now: For bookings which are yet to be completed or accepted.
 Hence, an active booking can be in the pending or accepted state.
- Completed: Bookings that have come to an end, i.e the driver took the passenger to their location and money was paid to the driver.
- Canceled: Bookings that didn't happen and no money was paid to the driver.

To create a new booking, the passenger has to enter their *Start Location* and *Destination*. These locations can be selected from the map or the list of stored locations known as *Saved Places*.

To make a payment, the user selects the Mobile Money operator they would like to use which can either be MTN or Orange after which they enter the phone number from which the trip's cost is deducted from. They could choose to use the phone number on their profile by clicking the check box

Privers can view ride info and accept rides from their rides screen.

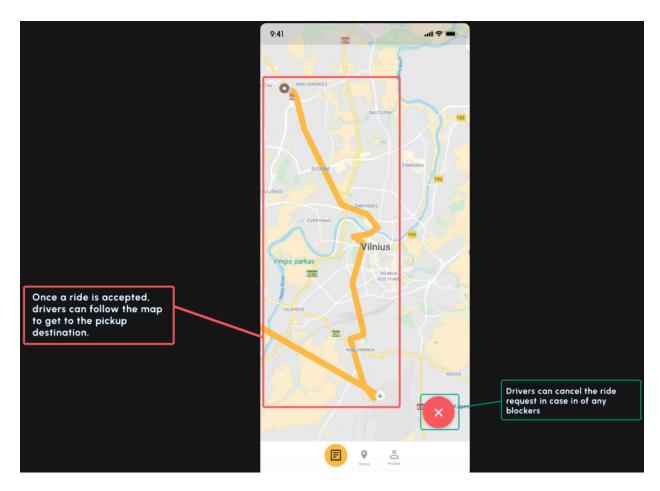
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The driver's booking page is as shown below:

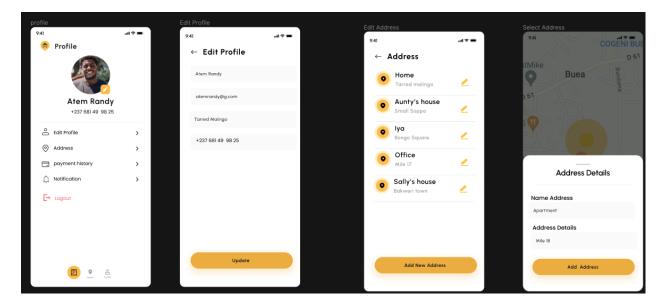
The three (03) states here are Available, Completed and Cancelled. The Available tab shows the booking that the driver is yet to complete or complete and there's a button under each booking that the driver can click to accept a selected booking.



When a particular booking is opened, a map is displayed and a red cancel button at the bottom of the map

Once a ride is accepted, the driver can follow the map to get to the pickup destination. Drivers also have the possibility to cancel the ride if need be.

7. Profile



A user would be able to edit and/or view their profile information which includes the following information:

- Name
- Email
- Phone Number
- Address
- Saved Places
- Payment history
- Notifications

From the profile page, they'll also be able to Logout.

Troubleshooting tips

- If you are having trouble signing in, make sure you are using the correct phone number and password.
- If you are having trouble booking a taxi, make sure you have entered the correct pickup location and destination.
- If you are having trouble paying for your ride, make sure you have selected the correct payment method and you have enough funds.
- Make sure you have a strong active internet connection while using the app.

If you are still having trouble using the app, please contact customer support.