

Transit App UI flow

Table of Contents

1.0 Splash Screen.....	6
2.0 Visibility Verification (check visibility before moving to sign in/up page)	7
3.0 Normal Mode (normal user/hearing disabilities/speech disorder).....	8
3.1 Sign Up.....	8
3.2 Sign In	9
3.3 Home Page & Dashboard (Choose Location).....	10
3.4 Find Best Route for Bus/Train/MRT or MRT.....	11
3.5 Journey Directions Confirmation.....	12
3.6 Start Trip	13
3.7 Step by Step Directions.....	14
3.8 Transit - My Trips (Eco-Dashboard).....	15
3.9 Transit – Games and Rewards	16
3.10 My Profile	18
3.11 Edit Profile	19
3.12 Notification	20
4.0 Options - AI Voice Agent	21
4.1 Journey (Option 1).....	22
4.1.1 Request for Destination - User.....	22
4.1.2 Transport Options - AI Voice Agent	23
4.1.3 Choose Transport – User	24
4.1.4 Best Route for Bus Transport Options - AI Voice Agent	25
4.1.5 Choose Other Route Options – User	26
4.1.6 Rephrase Best Route for Bus Transport Options - AI Voice Agent.....	27
4.1.7 Starts Journey – User	28
4.1.8 Final Journey Confirmation – AI Voice Agent.....	29
4.1.9 AI Agent Starts the Trip - AI Voice Agent.....	30
4.1.10 Current Location Updated – User	31
4.1.11 AI Agent Guides the Trip - AI Voice Agent	32

4.1.12 Bus Update - User	33
4.1.13 AI Agent Guides the Bus Stops - AI Voice Agent	34
4.1.14 AI Agent Guides the Bus Stops - AI Voice Agent	35
4.1.15 User Updates Status - User.....	36
4.1.16 AI Agent Guides the Trip 2 - AI Voice Agent.....	37
4.1.17 AI Agent Guides the Trip 3 - AI Voice Agent.....	38
4.1.18 User Replies with Thank You.....	39
4.1.19 Trip Ends - AI Voice Agent.....	40
4.2 Editing (Option 2)	41
4.2.1 Navigate to Profile Page - User	41
4.2.2 AI Agents Speaks Profile Details - AI Voice Agent.....	42
4.2.3 Edit/Sign out - AI Voice Agent	43
4.2.4 Edit profile - User.....	44
4.2.5 Asking what to change - AI Agent Voice	45
4.2.6 Change Email – User	46
4.2.7 AI verifies Biometrics - AI Agent.....	47
4.2.8 Email address Changed - AI Agent Voice	48
4.3 Sign Out (Option 3).....	49
4.3.1 User Speak to Sign Out - User	49
4.3.2 Sign out - AI Agent Voice.....	50
4.4 Notification (Option 4).....	51
4.4.1 User Speak to navigate to Notifications - User	51
4.4.2 AI ask for which Notifications – AI Voice Agent	52
4.4.3 User ask for Today's Notifications - User.....	53
4.4.4 AI explains the Notifications – AI Voice Agent.....	54
4.5 Change Languages (Option 5)	55
4.5.1 User Speak to change language - User	55
4.5.2 Request which language - AI Agent Voice	56
4.5.3 User choses language - User	57
4.5.4 Language changed - AI Agent Voice.....	58
4.6 My Trips (Option 6)	59
4.6.1 User Speak to navigate to “My Trips” page - User	59

4.6.2 Transit - Saved Carbons – AI Agent Voice.....	60
4.6.3 Transit – My Trips – AI Agent Voice	61
4.7 Games (Option 7)	62
 4.7.1 User Speak to navigate to “Games” page - User.....	62
 4.7.2 Transit - Challenge summary - AI Agent Voice	63
 4.7.3 Transit – Games - Active Challenges - User Speaks	64
 4.7.4 Transit – Games - Active Challenges - AI Agent Voice	65
 4.7.5 Transit – Games - Personalised Trips - User Speaks	66
 4.7.6 Transit - Games- Personalised Trips - AI Agent Voice.....	67
 4.7.7 Transit - Games- Weekly Progress - User Speaks	68
 4.7.8 Transit - Games- Weekly Progress - AI Agent Voice.....	69
5.0 User choose options - Hearing Disabilities.....	70
5.1 User choose options - Hearing Disabilities.....	71
 5.2 Journey (Option 1).....	72
 5.2.1 Replied Destination - User Speak to reply	72
 5.2.2 Choose Transport Options - AI Agent Hear	73
 5.2.3 User choose Bus - User Speak to reply	74
 5.2.4 Find Best Route for Bus Transport - AI Agent Hear	75
 5.2.5 User changes route preference - User Speaks.....	77
 5.2.6 Regenerate Best Route for Bus Transport - AI Agent Hear.....	78
 5.2.7 Start Journey - Speak to reply	79
 5.2.8 Final Route Confirmation before start - AI Agent Hear	80
 5.2.9 AI Agent Guides the Trip - AI Agent Hear	82
 5.2.10 Updates location - User Speak to reply	83
 5.2.11 AI Agent Guides the Trip 2 - AI Agent Hear.....	84
 5.2.12 User Updates Bus arrival - User Speak to reply.....	85
 5.2.13 AI Agent Guides the Trip 3 - AI Agent Hear	86
 5.2.14 AI Agent Alerts Bus Stop - AI Agent Hear.....	87
 5.2.15 User updates location - User Speak to reply	88
 5.2.16 AI Agent Guides the Trip 4 - AI Agent Hear	89
 5.2.17 AI Agent Guides the Trip 5 - AI Agent Hear	90
 5.2.18 User Thank AI Agent - User Speak to reply	91

5.2.19 AI Agent Ends Trip - AI Agent Hear	92
5.3 Editing (Option 2)	93
5.3.1 Navigate to Profile Page - User Speaks	93
5.3.2 AI Agents Speaks Profile Details - AI Agent Hear	94
5.3.3 Edit/Sign out - AI Voice Hear.....	95
5.3.4 Edit profile - User Speaks.....	96
5.3.5 Asking what to change - AI Agent Hear.....	97
5.3.6 Change Email - User Speaks	98
5.3.7 AI verifies Biometrics - AI Agent Hear	99
5.3.8 Email Address Changed - AI Agent Hear	100
5.4 Sign Out (Option 3).....	101
5.4.1 User Speak to Sign Out - User Speaks	101
5.4.2 Sign out - AI Agent Hear	102
5.5 Notification (Option 4).....	103
5.5.1 User Speak to navigate to Notifications - User Speaks	103
5.5.2 AI ask for which Notifications - AI Voice Hear	104
5.5.3 User ask for Today's Notifications - User Speaks.....	105
5.5.4 AI explains the Notifications - AI Voice Hears	106
5.6 Change Languages (Option 5)	107
5.6.1 User Speak to change language - User Speaks	107
5.6.2 Request which language - AI Agent Hear	108
5.6.3 User choses language - User Speaks	109
5.6.4 Language changed - AI Agent Hear	110
5.7 My Trips (Option 6)	111
5.7.1 User Speak to navigate to “My Trips” page - User.....	111
5.7.2 Transit - Saved Carbons – AI Agent Voice.....	112
5.7.3 Transit – My Trips – AI Agent Voice	113
5.8 Games (Option 7)	114
5.8.1 User Speak to navigate to “Games” page - User.....	114
5.8.2 Transit - Challenge summary - AI Agent Voice	115
5.8.3 Transit – Games - Active Challenges - User Speaks	116
5.8.4 Transit – Games - Active Challenges - AI Agent Voice	117

5.8.5 Transit – Games - Personalised Trips - User Speaks	118
5.8.6 Transit - Games- Personalised Trips - AI Agent Voice.....	119
5.8.7 Transit - Games- Weekly Progress - User Speaks	120
5.8.8 Transit - Games- Weekly Progress - AI Agent Voice.....	121

Transit App UI flow with explanation

FIGMA Link:

<https://www.figma.com/design/2StehEHQIgmOpqpmCrV6f0/Transit?node-id=224-8709&p=f&t=MJ3sKeePcOGenGkG-0>

1.0 Splash Screen



Figure 1: Splash Screen

When the user opens the app, the first screen that appears for 80 seconds is the Splash screen.

2.0 Visibility Verification (check visibility before moving to sign in/up page)

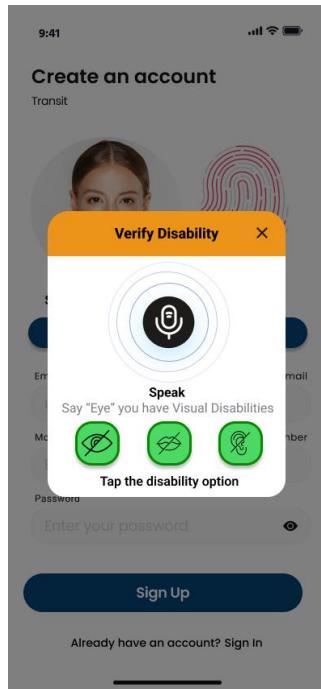


Figure 2: Visibility Verification

After the “Splash Screen”, the user will be navigated to the Sign Up Page, users have to choose their “disability” at the “verify disability tab”, before moving to the Sign Up page, there are 3 options given such as “eye”, “speech” and “hearing”, users has to choose one.

3.0 Normal Mode (normal user/hearing disabilities/speech disorder)

3.1 Sign Up

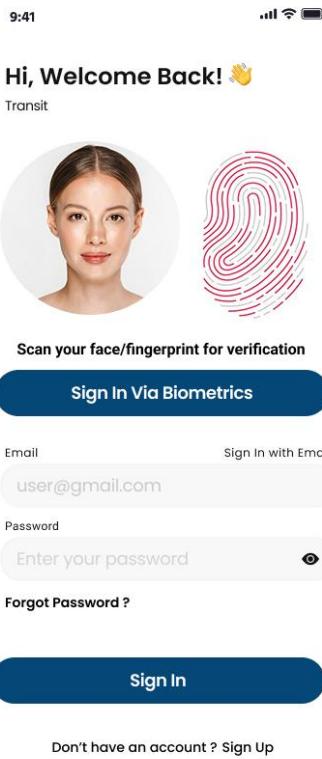


After user has choose the visibility, it will bring them to their respective pages. If user chooses the “speech inability”, they will be navigated to the Sign Up page.

New users can input their details to create an account. Users can also tap “Scan To Register Biometrics” to register their biometrics.

Existing users can click the “Already have an account? Sign In” button to navigate to the sign in page to login.

3.2 Sign In



If the user navigates to the Sign In Page, they can either scan their biometrics or input their “email” and “password” to Sign In to the application.

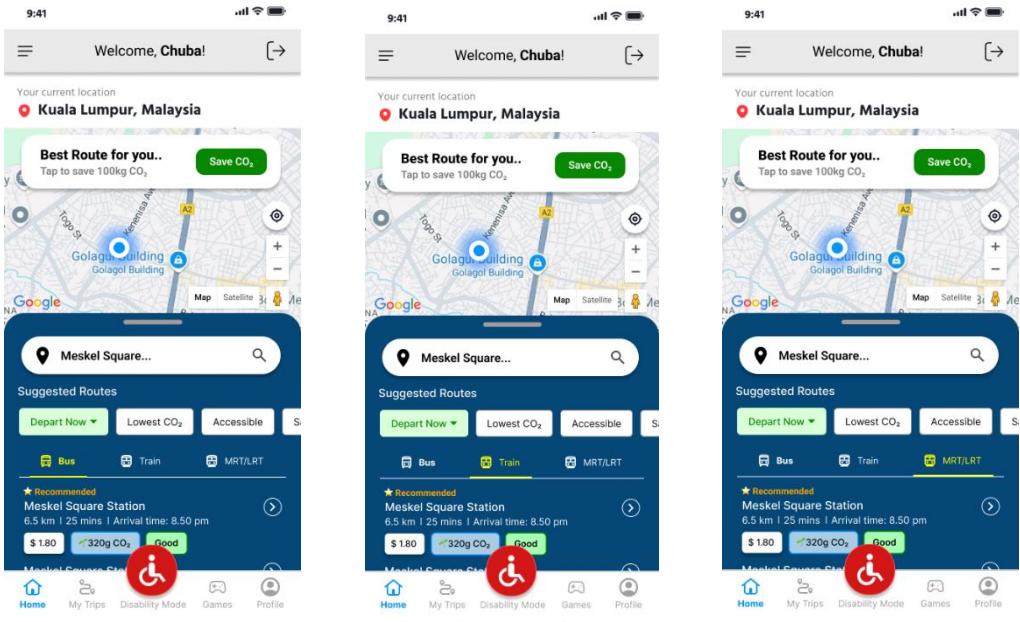
3.3 Home Page & Dashboard (Choose Location)



After a successful sign-up or sign-in, the user is navigated to the Home Page. This screen now serves as an informational dashboard that provides real-time environmental data and travel impact statistics before the user begins their journey.

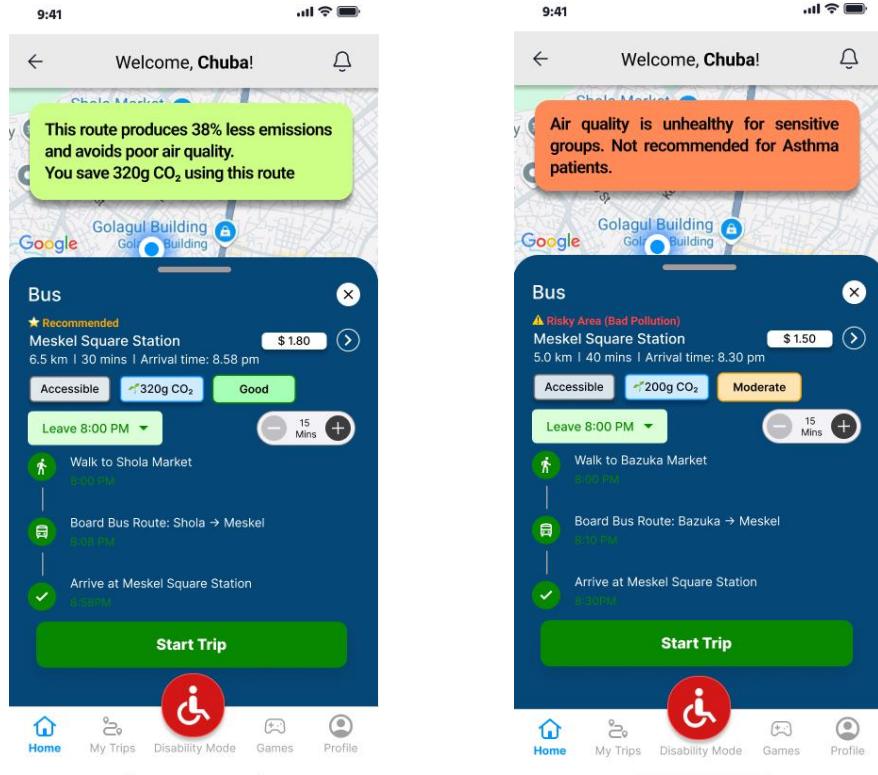
- **Environmental & Weather Dashboard:**
 - **Weather Updates:** The top section displays real-time weather conditions, including **Temperature**, **Humidity**, and the **Air Quality Index (AQI)**, helping users plan their commute comfort and safety.
 - **Eco-Impact Card:** Below the weather metrics, a dedicated card visualizes the user's environmental contribution. It displays the total **carbon emissions saved** by using public transit, equated to a tangible metric of "**Number of Trees Planted.**"
- **Destination Search Interaction:**
 - **Interaction:** When the user taps on this input box, they are immediately navigated to a dedicated "**Search Bus**" screen to focus on finding their route.
- **Accessibility Controls:**
 - **Mode Toggle:** A round blue button displayed as "**Mode**" remains accessible, allowing users to switch between **Normal**, **Visual**, or **Hearing** disability interfaces at any time.

3.4 Find Best Route for Bus/Train/MRT or MRT



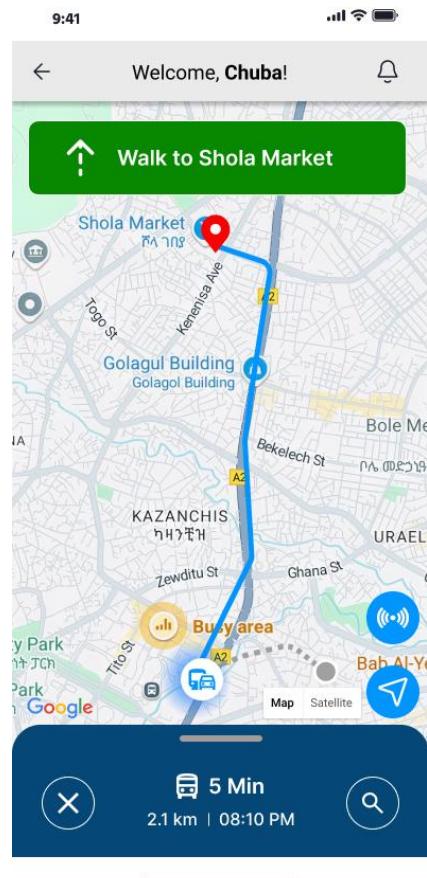
After a successfully choosing the end location/destination, they will be navigated to the “Find Best Route” Page and users can choose the best route for their transportation of choice, price, air quality and carbon emissions. User can also tap other transportation options such as Bus, Train, MRT/LRT check out or choose other routes. User can also filter the routes by choosing their leaving time, route that has lowest CO₂, Accessible, Safe Air Quality and fastest. There is also suggested route for users and they can choose the best route to reduce carbon emissions.

3.5 Journey Directions Confirmation



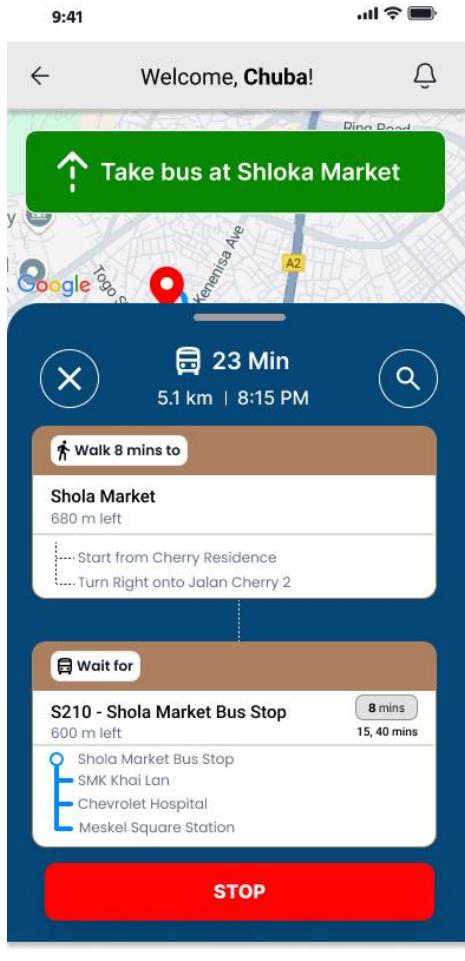
After successfully choosing the best route for their preferred transport, the user will be navigated to the “Journey Directions Confirmation” Page and users can have a look at their journey directions plan before tapping the “Start Trip” button to start their trip. User will get notifications about how much carbon footprint they can save by using the route or about the air quality in this route. User can also change their departure time, like “Leave at 8:00 PM”, “add on 15 mins” or “tomorrow”.

3.6 Start Trip



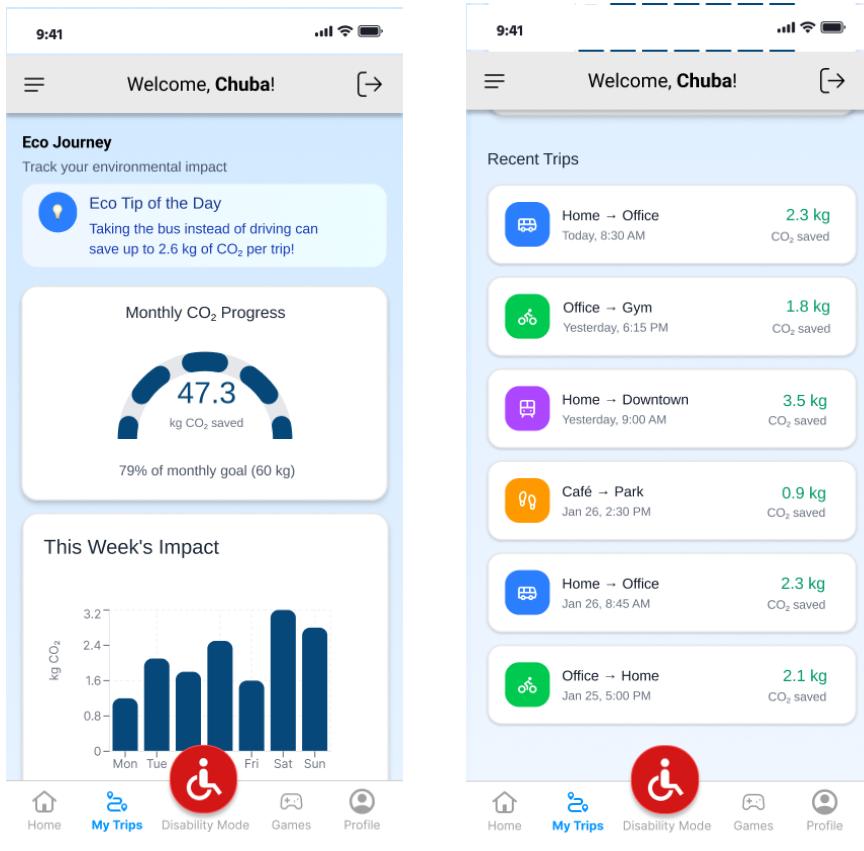
After the user has started their journey, they will be navigated to the “Start Trip” page and then the system will guide them by giving life update and travel direction.

3.7 Step by Step Directions



In the same “Start trip” screen, the user can slide up the bottom tab, to view the full details about their step-by-step directions of the journey.

3.8 Transit - My Trips (Eco-Dashboard)



Navigation: If the user taps the "**My Trips**" icon located on the bottom app bar, they are navigated to the "My Trips" page. This screen serves as a personal sustainability hub, tracking the user's travel history and environmental impact.

The top section features a dynamic card displaying a daily "Eco Tip," providing users with actionable advice on sustainability and green living.

Below the tip, a progress card visualizes the user's monthly performance. It displays the total **carbon footprint saved** for the current month and calculates this as a **percentage of their set monthly target**, helping users track their eco-goals.

A bar chart report visualizes daily consistency. It breaks down how much carbon the user has saved **every day for the current week**, allowing them to spot trends in their travel habits.

The bottom section lists the user's **Past Trips**. Each entry details the specific **time of the trip** and the exact amount of **carbon saved** during that specific journey, reinforcing the immediate impact of their transport choices.

3.9 Transit – Games and Rewards

The screenshots illustrate the 'Games' and 'Rewards' features of the Transit app, designed to encourage eco-friendly habits through challenges, badges, and personalized tips.

Screenshot 1: Eco Coach

- Eco Coach:** Level up your eco-friendly habits.
- Total Points:** 1247
- Day Streak:** 7
- Badges:**
 - First Journey
 - Week Warrior
 - Bike Champion
 - Tree Saver
 - Metro Master
 - Eco Hero
- Active Challenges:**
 - Take public transit 5 times this week (+50 pts) - 3 / 5 completed
 - Bike to work 3 days in a row (+75 pts) - 1 / 3 completed
 - Save 5 kg of CO₂ this week (+100 pts) - 4.2 / 5 completed

Screenshot 2: Active Challenges

- Active Challenges:**
 - Take public transit 5 times this week (+50 pts) - 3 / 5 completed
 - Bike to work 3 days in a row (+75 pts) - 1 / 3 completed
 - Save 5 kg of CO₂ this week (+100 pts) - 4.2 / 5 completed
- Personalized Tips:**
 - Route Optimization:** The bus route from your home has fewer stops in the morning. You could save 10 minutes by taking it at 8:15 AM instead of 8:30 AM!

Screenshot 3: Personalized Tips

- Personalized Tips:**
 - Route Optimization:** The bus route from your home has fewer stops in the morning. You could save 10 minutes by taking it at 8:15 AM instead of 8:30 AM!
 - Weather Alert:** Great weather this weekend! Perfect for biking to the farmers market instead of driving.
 - Impact Insight:** You've saved enough CO₂ this month to offset a 2-hour flight! Keep up the amazing work!
- Weekly Progress:** A bar chart showing progress over four weeks (W1-W4). The bars represent streak days.

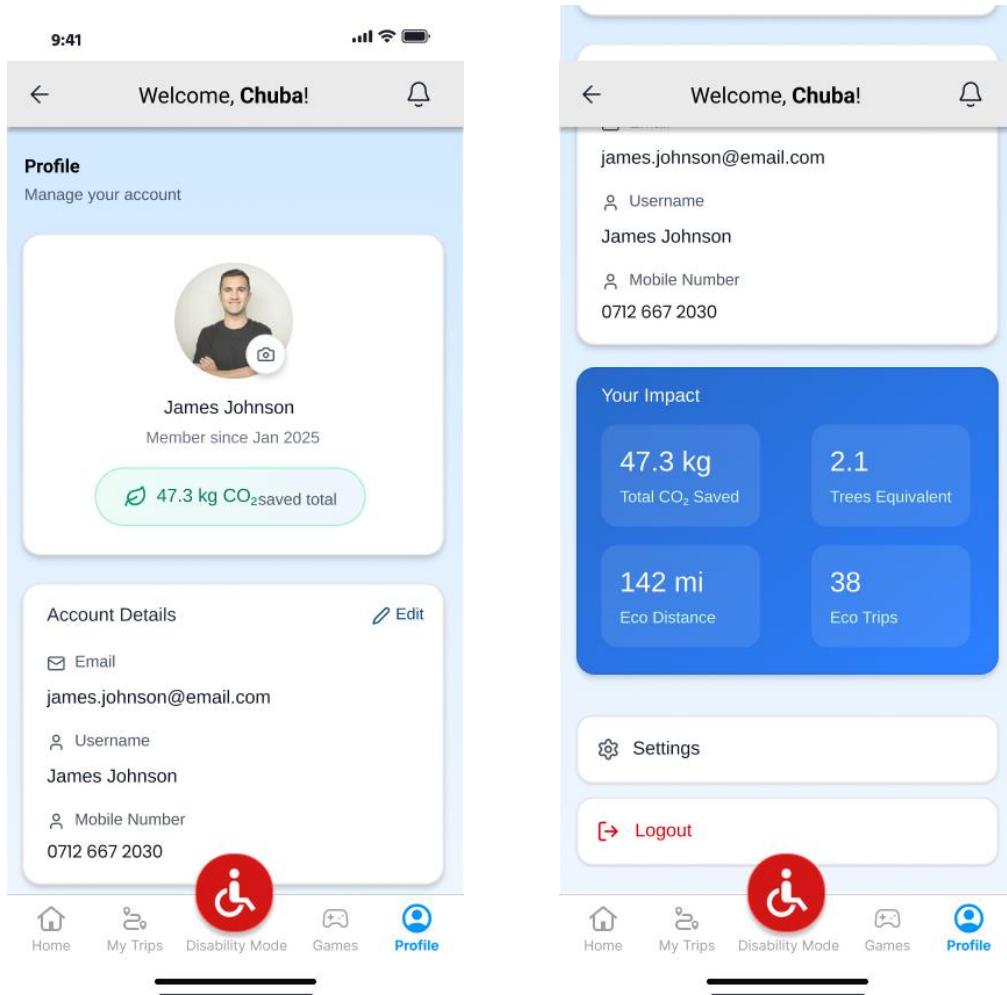
Screenshot 4: Weekly Progress

- Weekly Progress:** A bar chart showing progress over four weeks (W1-W4). The bars represent streak days.
- Legend:** Blue bars = streak days!

When the user taps the **Games icon** in the app bar, they will be navigated to this screen. This page is designed to gamify the travel experience and reward sustainable habits.

- **Points & Streaks:** When users successfully complete a trip, they will get **points** and maintain **streaks** if they utilize public transport properly and regularly.
- **Badges:** Users will be offered various **badges** (e.g., "Eco Warrior," "Super Commuter") to appreciate their efforts and mark specific milestones.
- **Personalized Trip Insights:** The page displays personalized trip details, including **route optimization** performance, **weather alerts** relevant to their history, and specific **impact insights**.
- **Streak Analytics:** Below these insights, there is a card containing a **bar chart** that shows the user's consistency, displaying how many streaks they achieved every week.

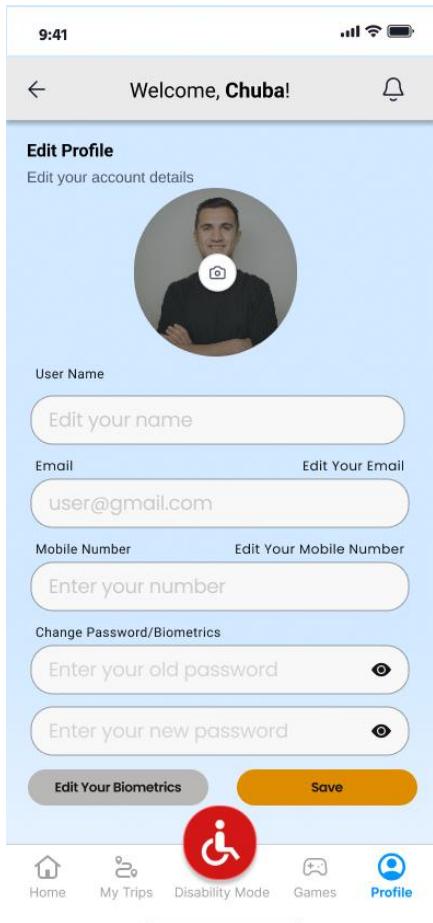
3.10 My Profile



If the user clicks the account icon at the Home Bar, they will be navigated to the “My Profile”. In this page, the user can view their profile picture, profile name, email and phone number. Users can also briefly view on how many trips they did and how many distance, how much carbon footprint they have saved and it is equivalent to how many trees. User were also given an option to change the settings like the system language and allowed to sign out from the system.

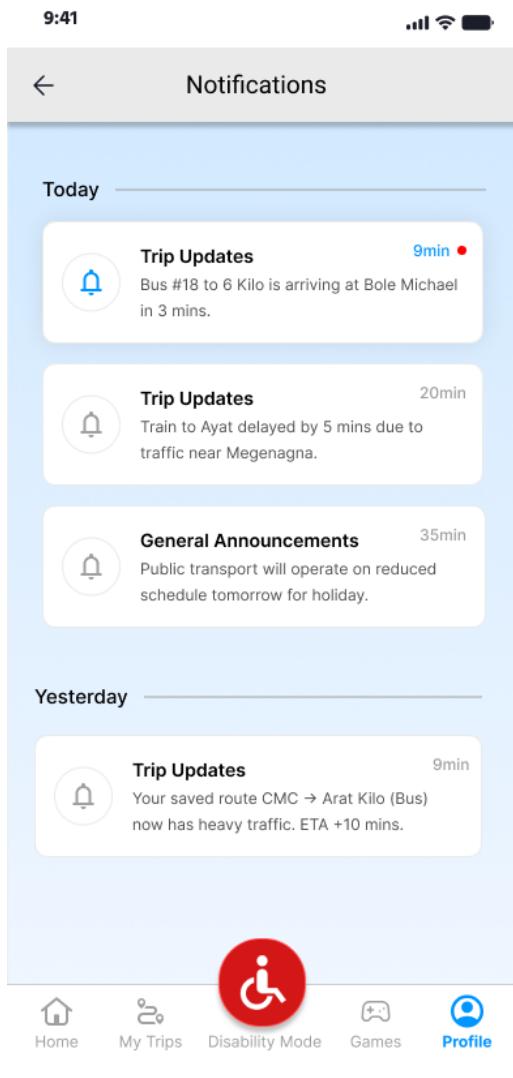
Users can click the edit (pencil icon) button to navigate to the “edit profile” page to edit their details.

3.11 Edit Profile



In the edit profile page, users can edit their personal details such as profile name, email, mobile number, password and biometrics.

3.12 Notification



If the user clicks the bell icon button on the top left corner, they will be navigated to the “Notification” page. In that page, users can view their recent notification regarding their journey.

Visual Disabilities

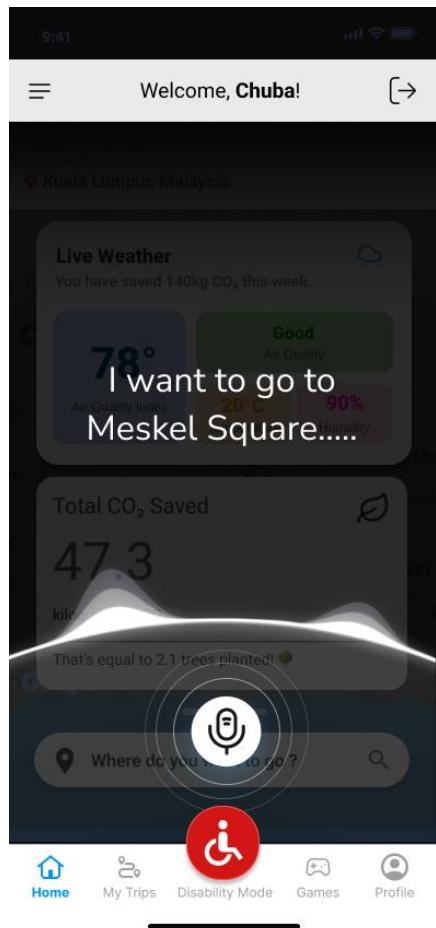
4.0 Options - AI Voice Agent



If the user taps the “eye” button, the system’s mode will be changed to Visual Disability’s mode and they will be navigated to the Visual Disability UI as shown in the screen above. This mode will be handled by Gemini AI Assistant. The agent will introduce itself and announce the live location of the user. Then the AI Agent called Sara will ask the user on their destination location.

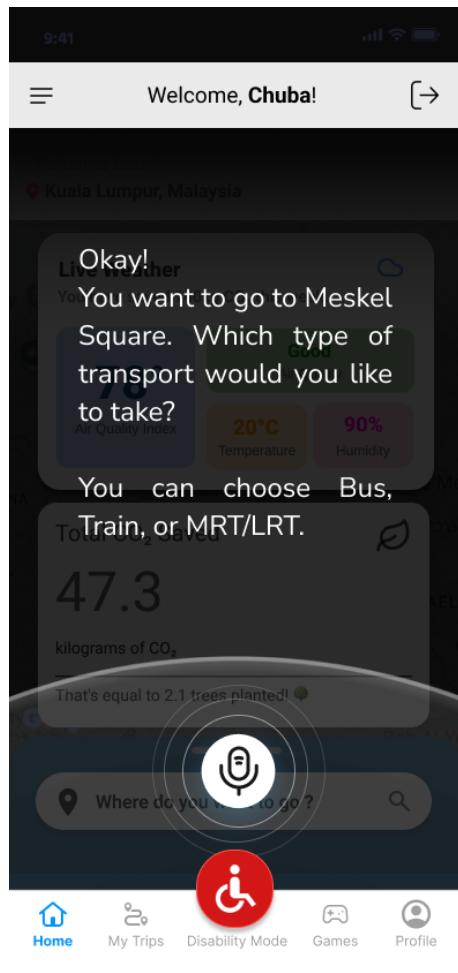
4.1 Journey (Option 1)

4.1.1 Request for Destination - User



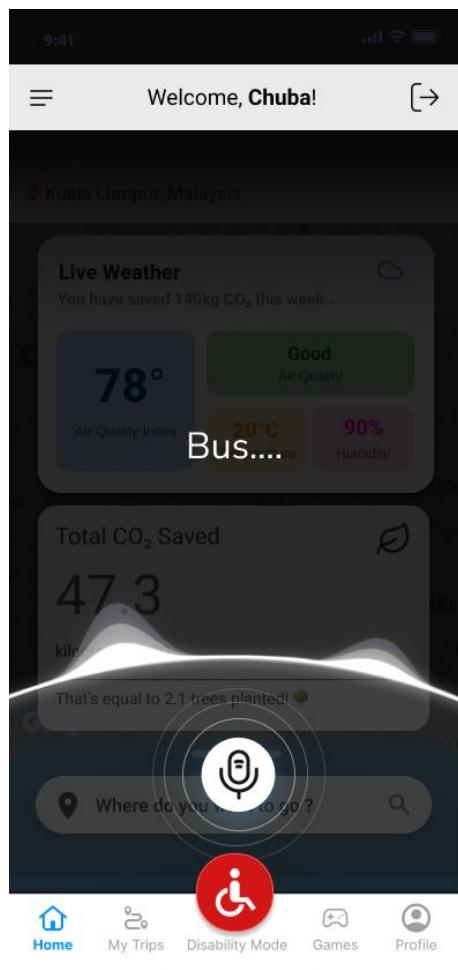
The user can speak to the AI Agent regarding where he/she wanted to go to or destination location.

4.1.2 Transport Options - AI Voice Agent



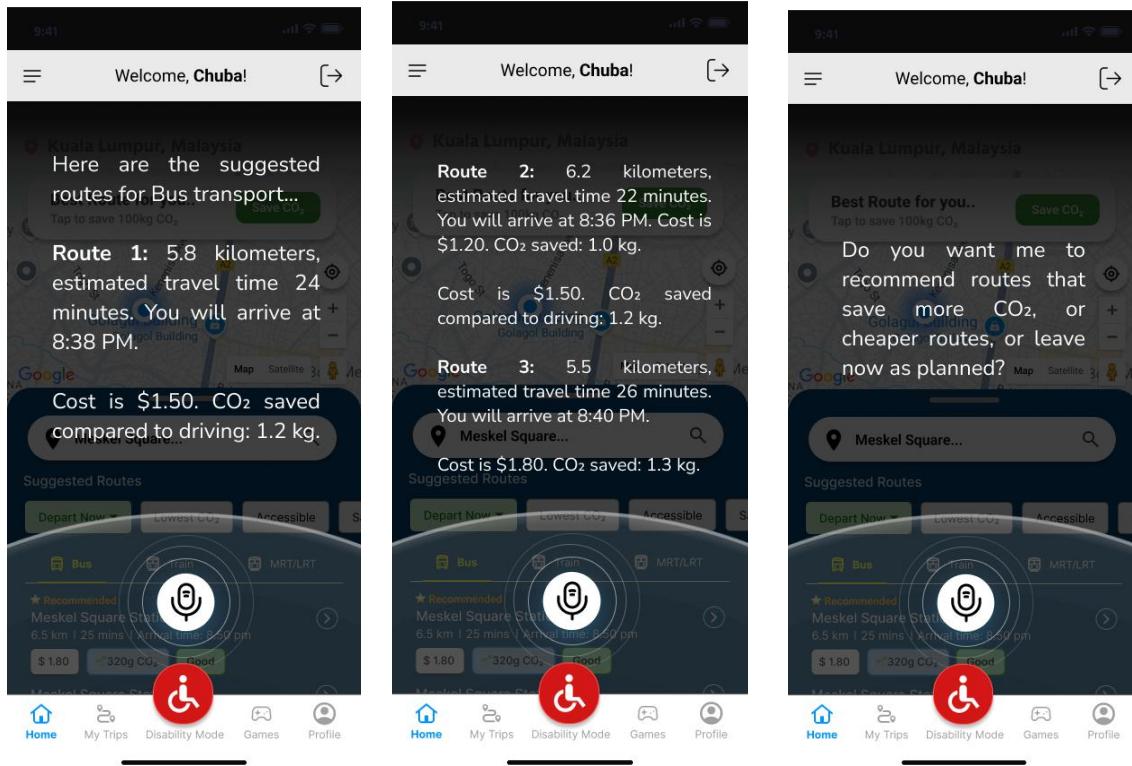
The AI Agent Sara will process the user's input audio and ask the user about the “mode of transport” before suggesting the best routes.

4.1.3 Choose Transport – User

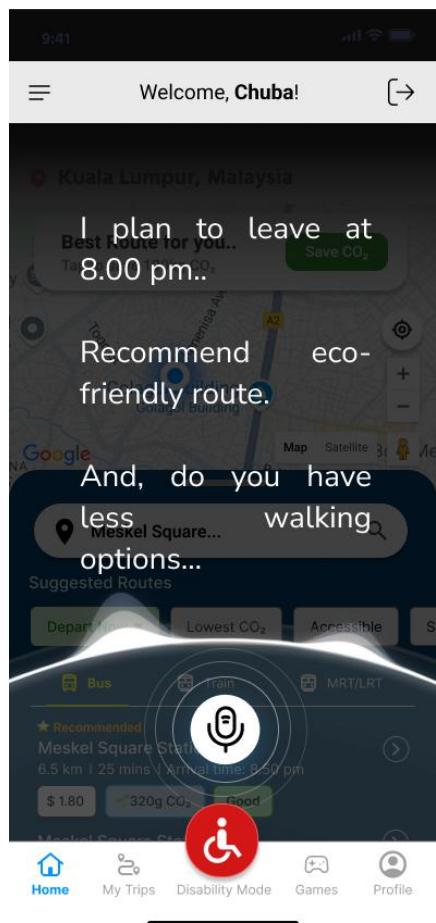


The user will say their preferred mode of transport.

4.1.4 Best Route for Bus Transport Options - AI Voice Agent

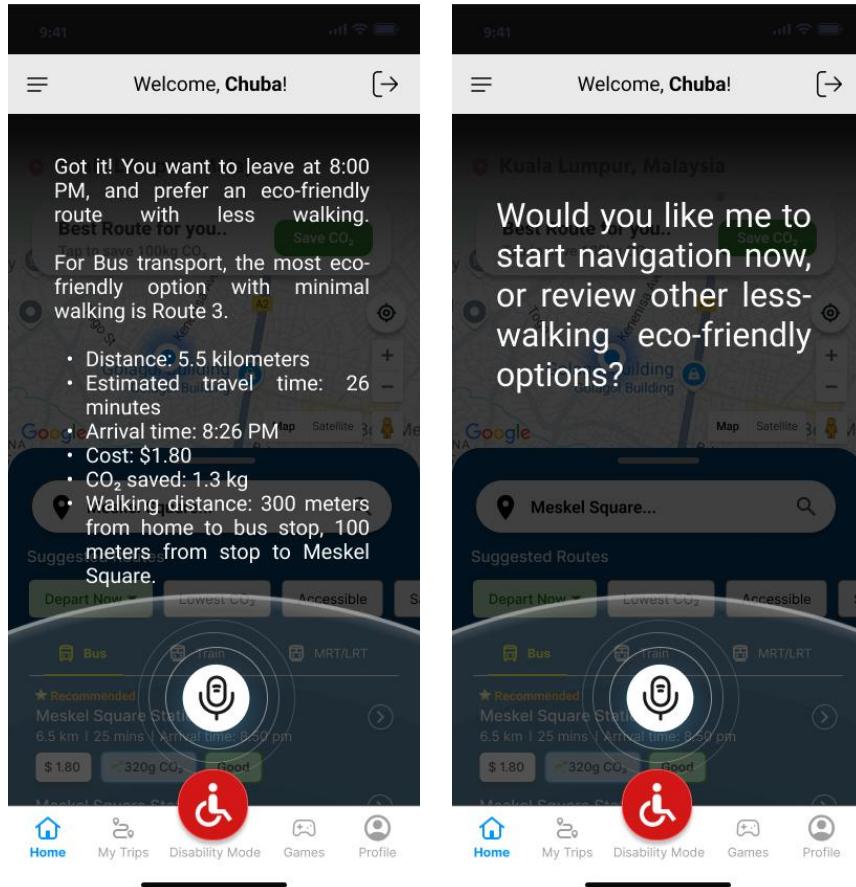


4.1.5 Choose Other Route Options – User



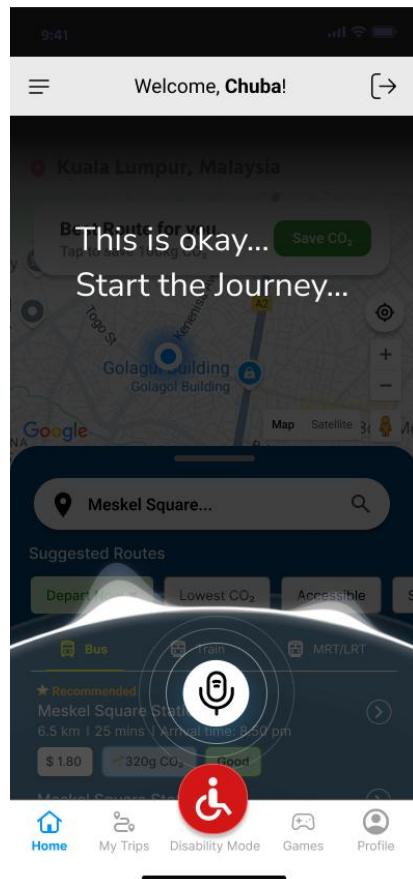
The user will then allow to say about what time they plan to leave/ start their journey and other options if they want, such as less walking options.

4.1.6 Rephrase Best Route for Bus Transport Options - AI Voice Agent



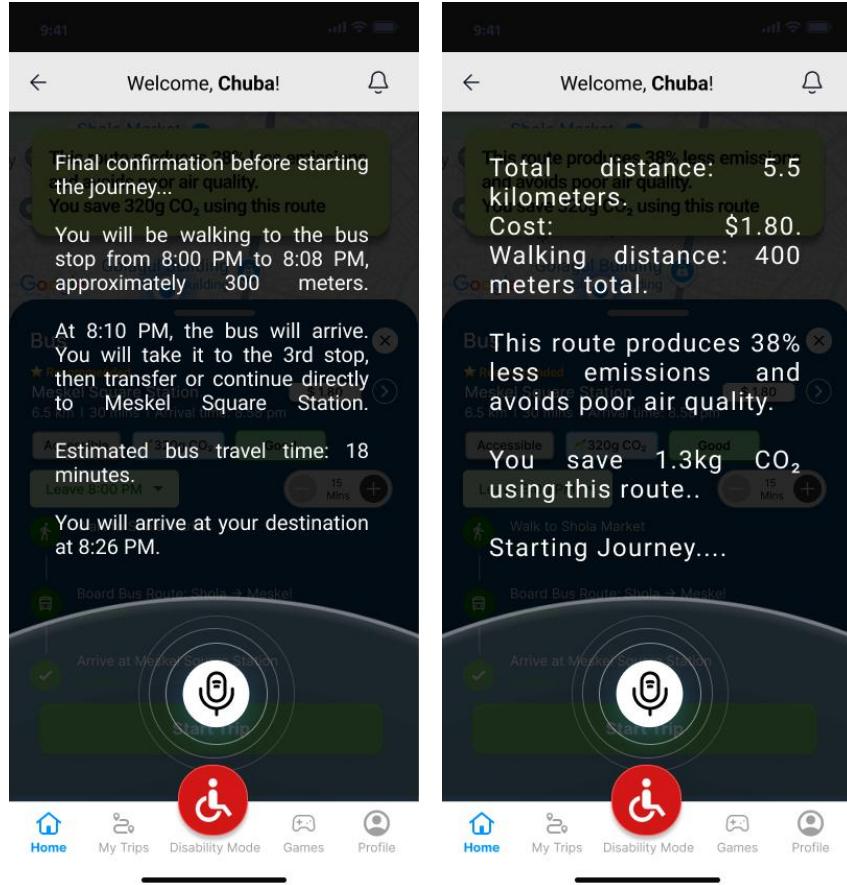
The AI Agent will process the user's input audio and will recalculate the route based on user's preference and explain the available route or the best recommended route again. Then the AI Agent will ask if the user still wants better route options and will pause to hear the user's respond.

4.1.7 Starts Journey – User



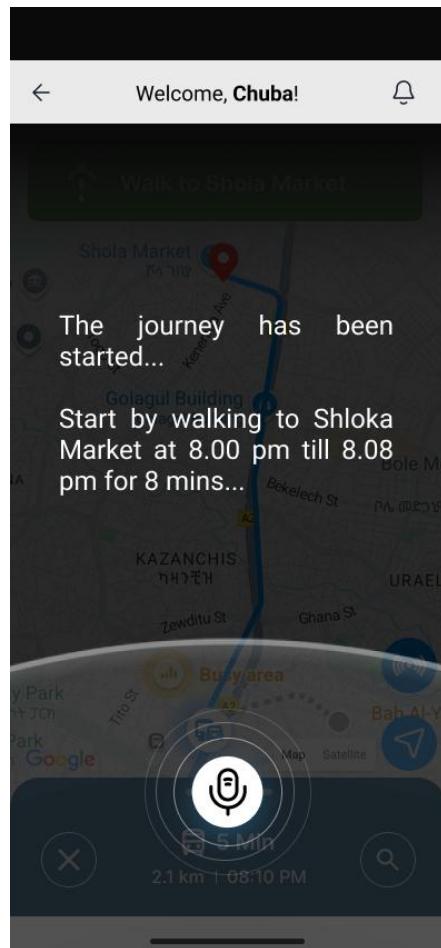
If the user is satisfied with the selected route, they can say “Start the Journey” to start the journey or keep negotiation with other preference.

4.1.8 Final Journey Confirmation – AI Voice Agent



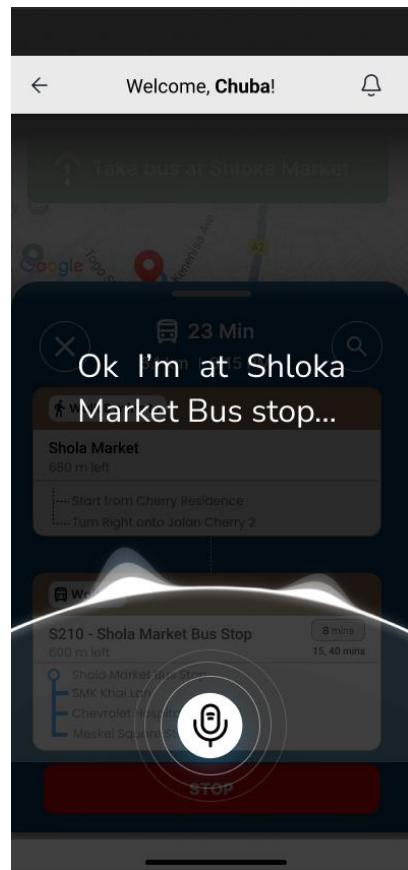
After hearing this, the AI Agents will announce the full details of the final chosen journey before the system starts the journey.

4.1.9 AI Agent Starts the Trip - AI Voice Agent



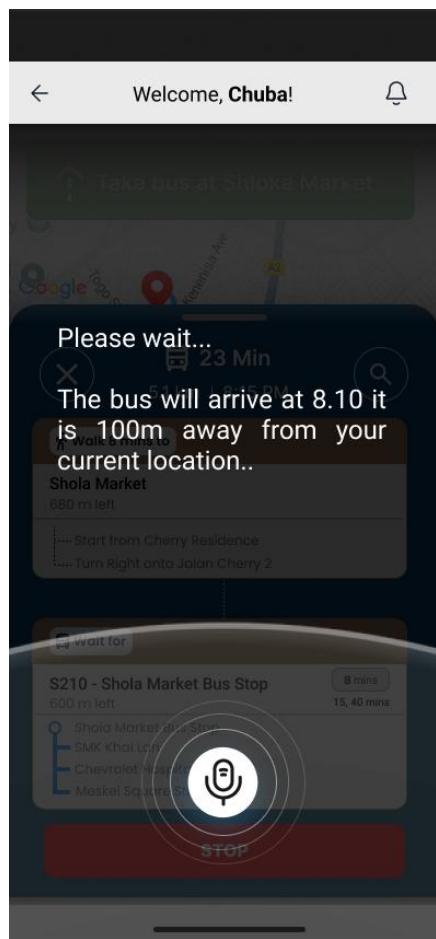
Then the journey will be started by the system and the AI Agent will be guiding the users verbally throughout their journey.

4.1.10 Current Location Updated – User



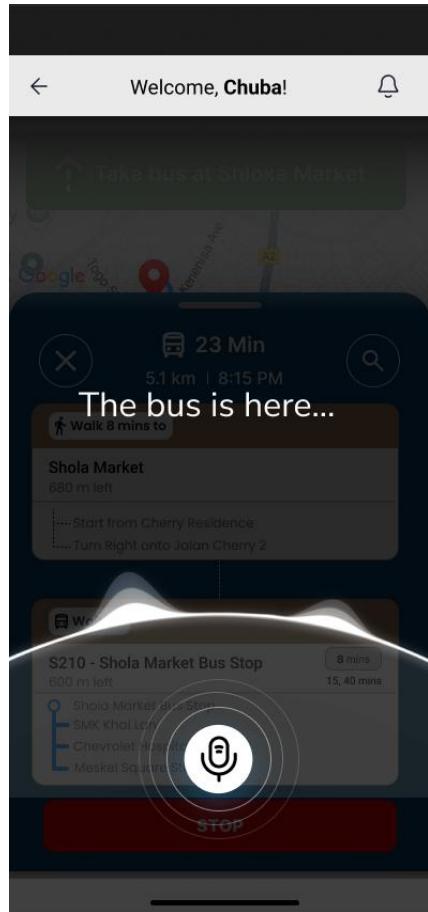
Then the user will reply with their every action to the AI Agent.

4.1.11 AI Agent Guides the Trip - AI Voice Agent

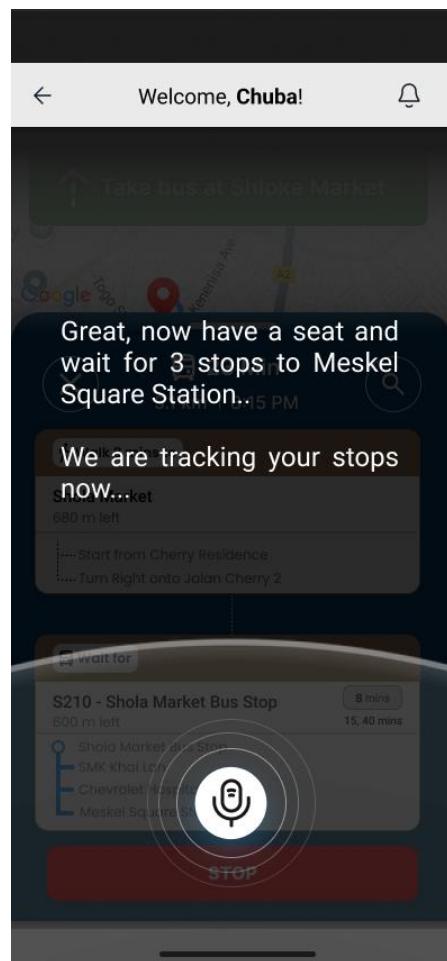


After hearing the current status of the user, the AI Agent continue guiding the user towards the end of their journey.

4.1.12 Bus Update - User

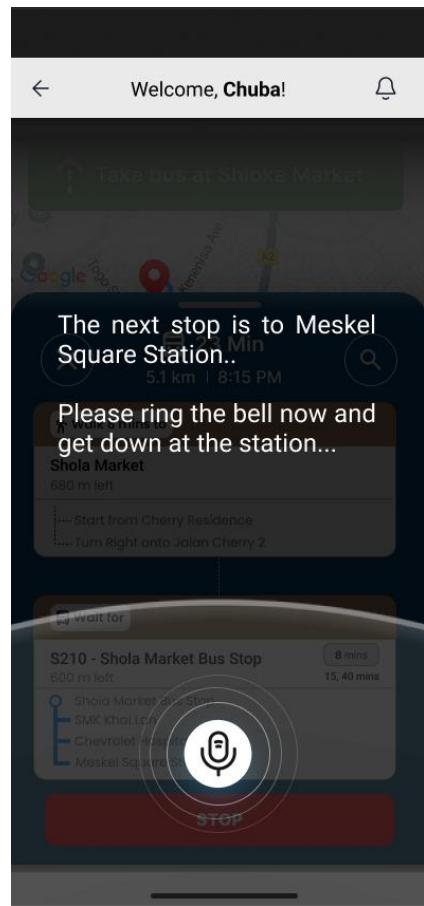


4.1.13 AI Agent Guides the Bus Stops - AI Voice Agent

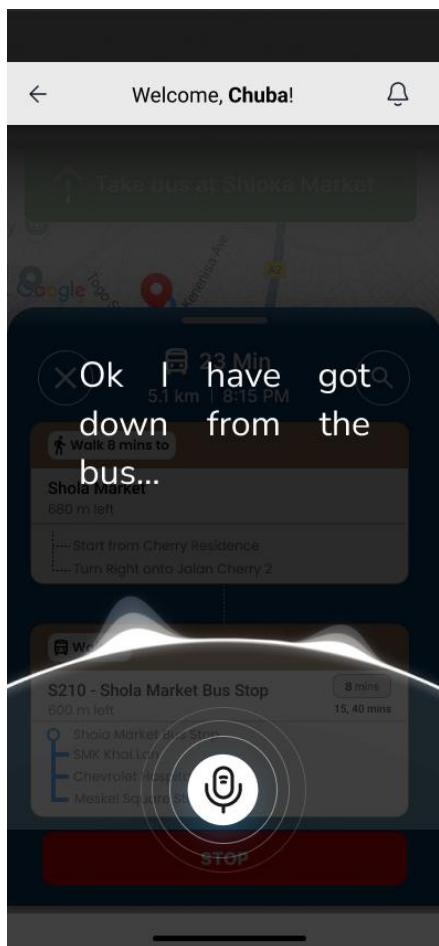


When the user has got into the bus, the system will be tracking the user's current location/bus station checkpoint to guide the user to get down at the current bus stop to arrive at the correct destination.

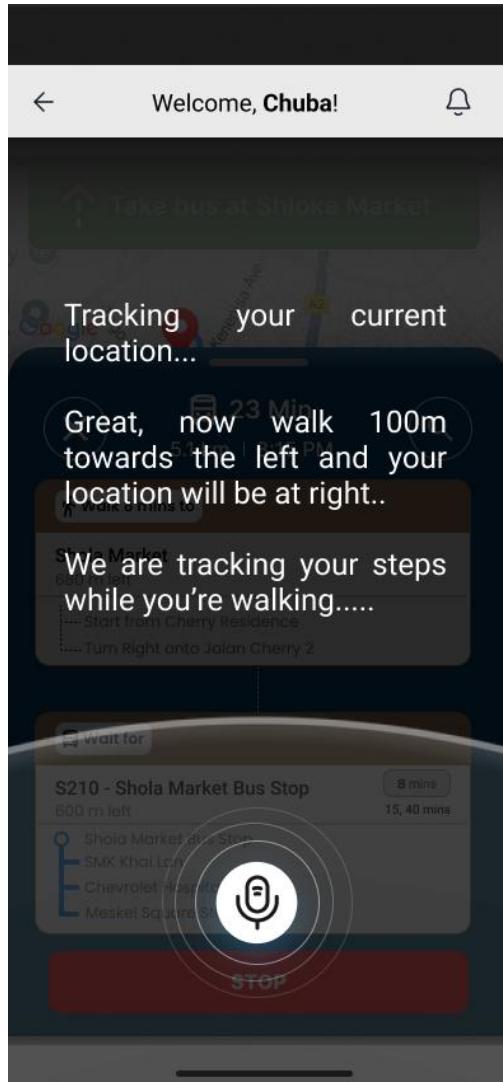
4.1.14 AI Agent Guides the Bus Stops - AI Voice Agent



4.1.15 User Updates Status - User

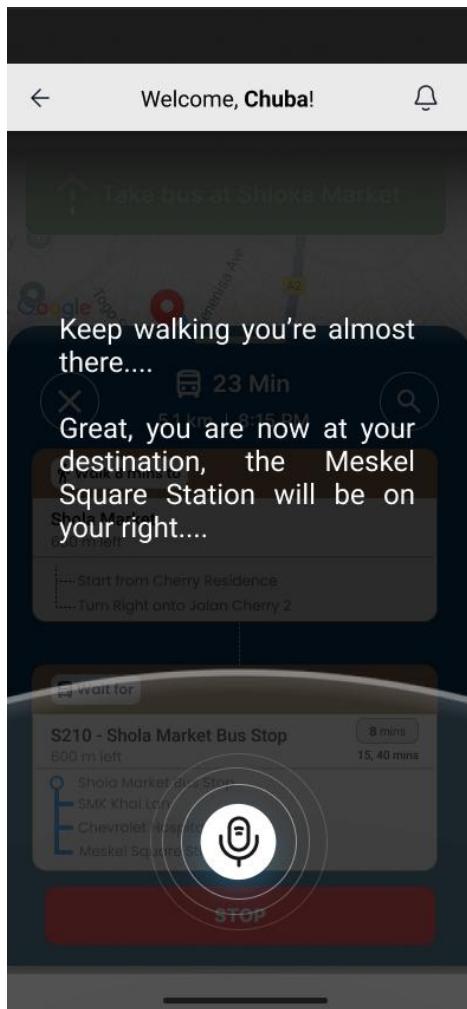


4.1.16 AI Agent Guides the Trip 2 - AI Voice Agent



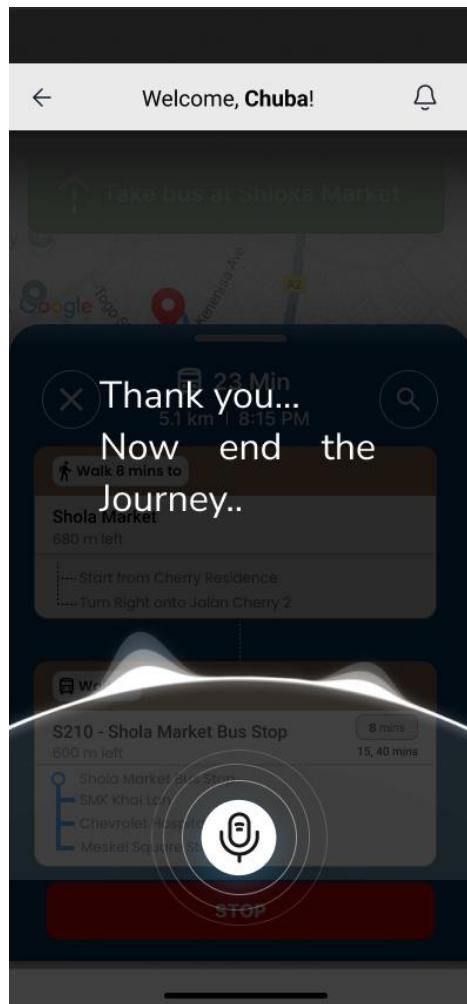
When the user has got down from the bus at the bus stop, the system will calculate the user's current step and then keep guiding the user.

4.1.17 AI Agent Guides the Trip 3 - AI Voice Agent



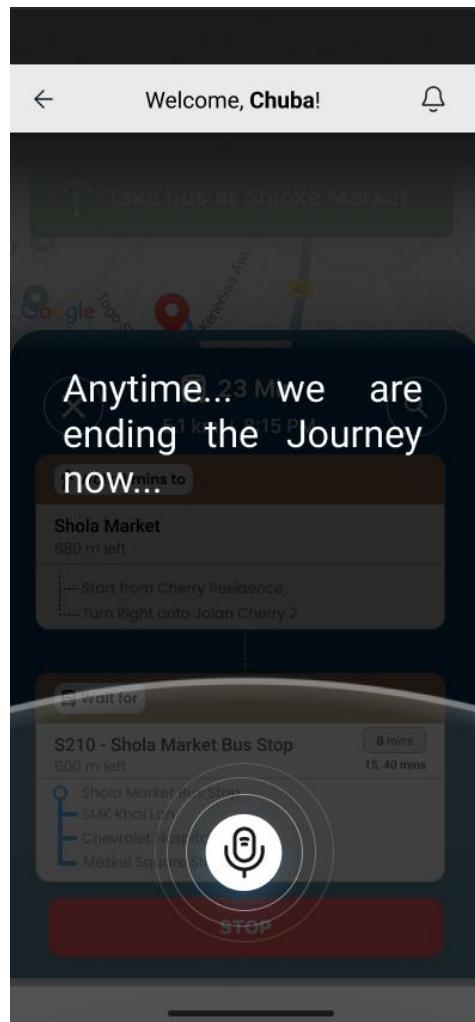
Once the user has arrived at the destination the system will track the user's current location to confirm. Once confirmed the AI Agent will announce to the user that they have successfully arrived at their destination.

4.1.18 User Replies with Thank You



Once the user has arrived, they can say “End the Journey” to exit the journey.

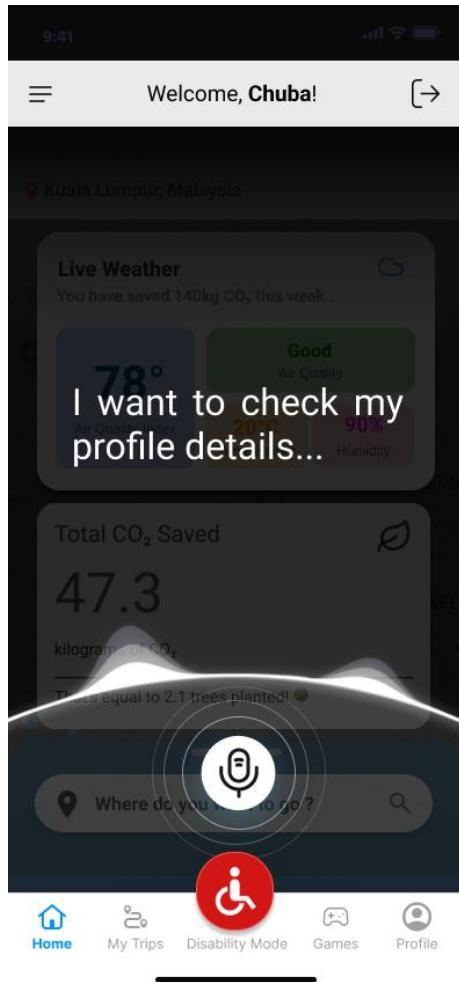
4.1.19 Trip Ends - AI Voice Agent



The system will track the user's current journey to confirm if the user has arrived at the destination and will end the journey.

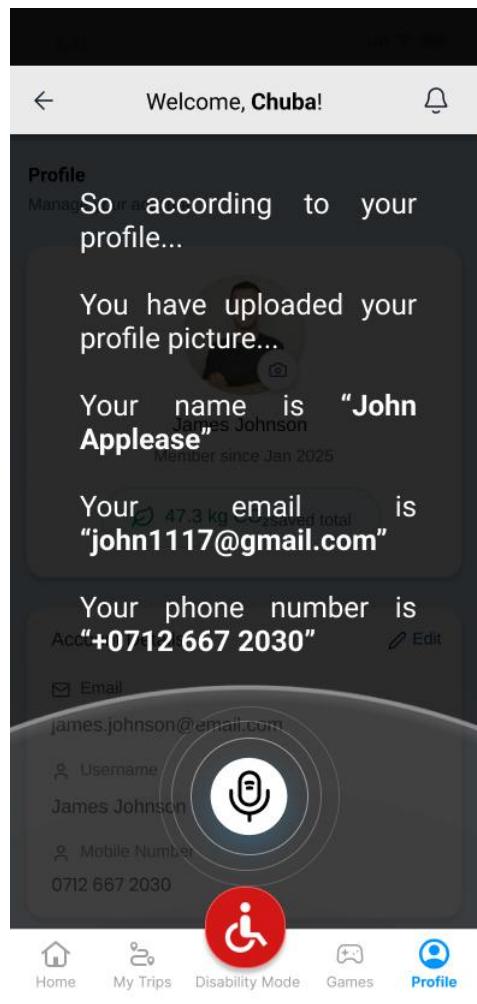
4.2 Editing (Option 2)

4.2.1 Navigate to Profile Page - User



The user can speak to the AI Agent that they wanted to check the profile details.

4.2.2 AI Agents Speaks Profile Details - AI Voice Agent



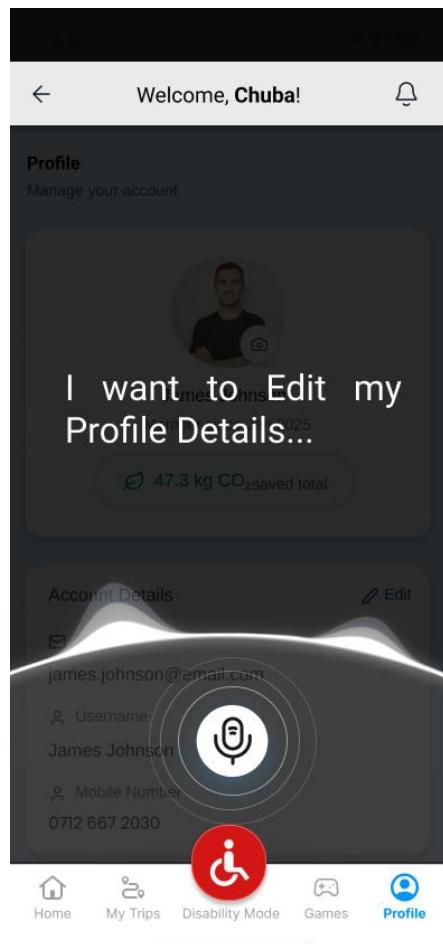
The AI Agent will then explain to the user about their profile details that they have stored in the system.

4.2.3 Edit/Sign out - AI Voice Agent



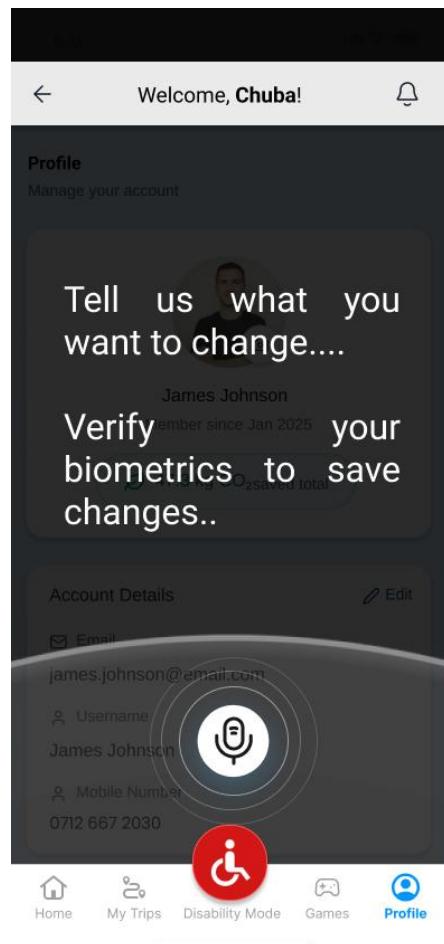
Then the AI Agent will ask the user if they want to edit their profile details or Sign Out.

4.2.4 Edit profile - User



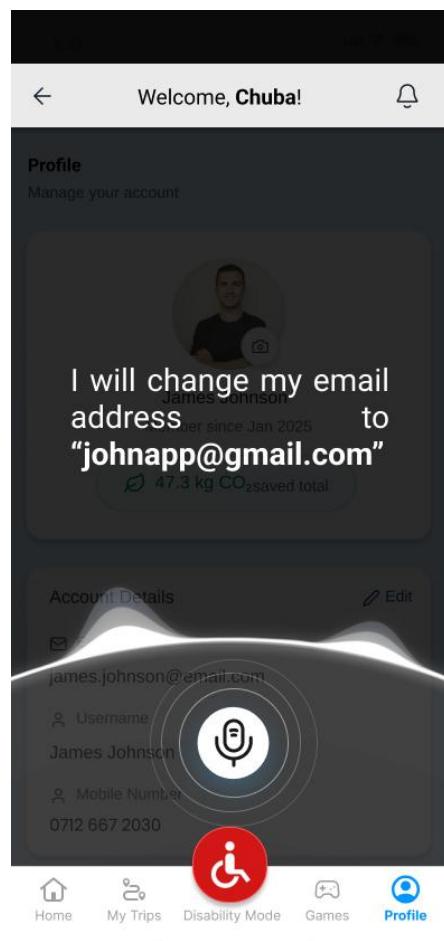
The user can ask verbally to edit the details and the system will change their profile details according to their request.

4.2.5 Asking what to change - AI Agent Voice



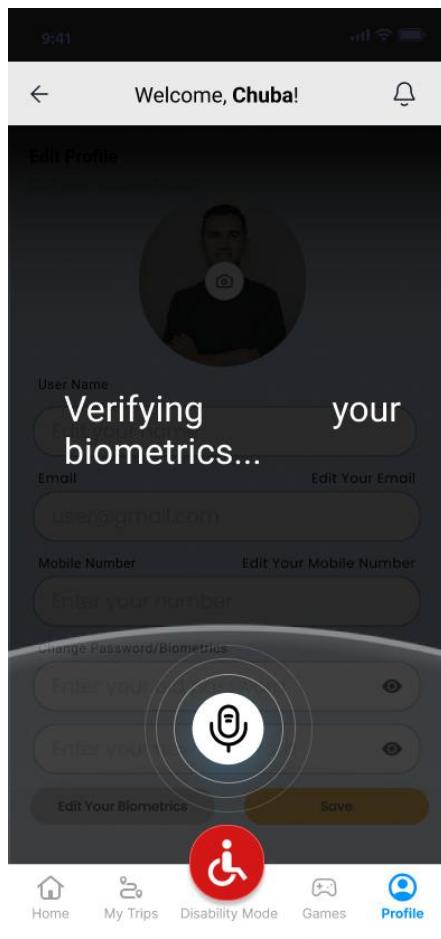
The AI Agents will process the input and reply with what details the user wanted to change.

4.2.6 Change Email – User



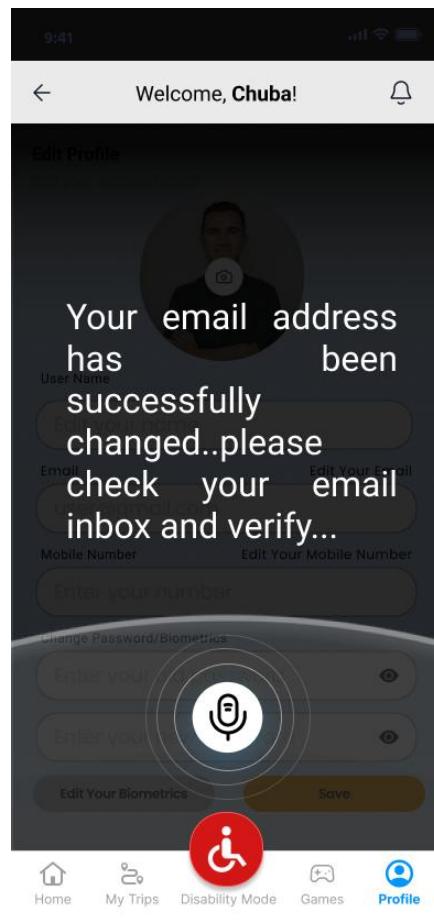
The user will say the details that they wanted to change such as the email address and verify their biometrics for the system to validate if they are the authorized user.

4.2.7 AI verifies Biometrics - AI Agent



The system will then process the input audio and verify the input biometrics.

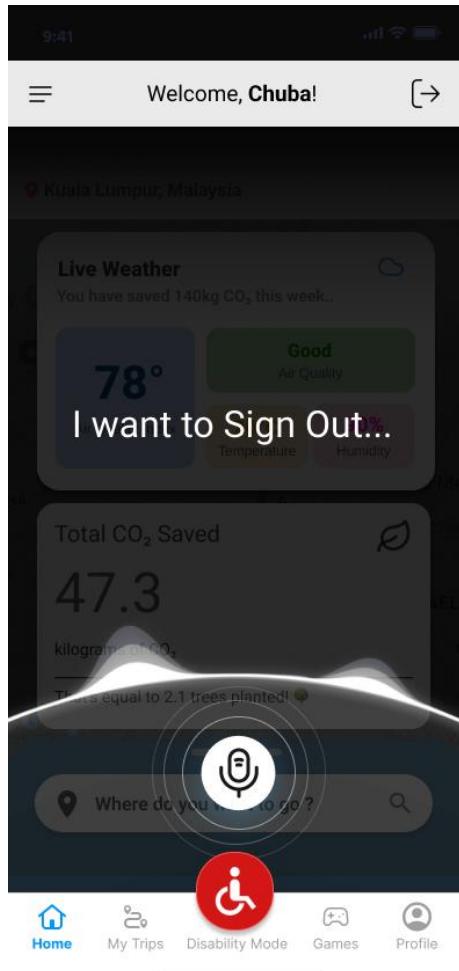
4.2.8 Email address Changed - AI Agent Voice



Then, the AI agent will process the input audio and change it accordingly. Then, it will announce the user about the new email, so that the user can change it if it's wrong.

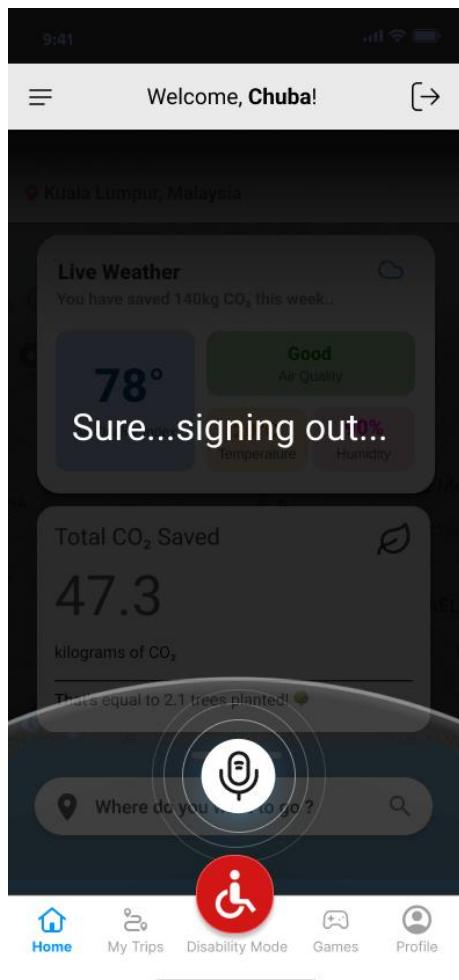
4.3 Sign Out (Option 3)

4.3.1 User Speak to Sign Out - User



The user can speak to the AI Agent that they wanted to sign out.

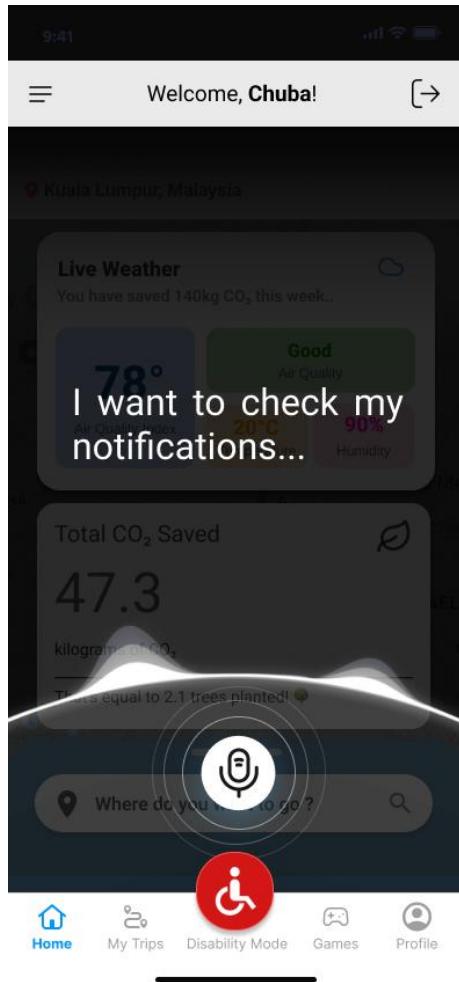
4.3.2 Sign out - AI Agent Voice



The AI Agent will process the input audio and signs the user out form the system.

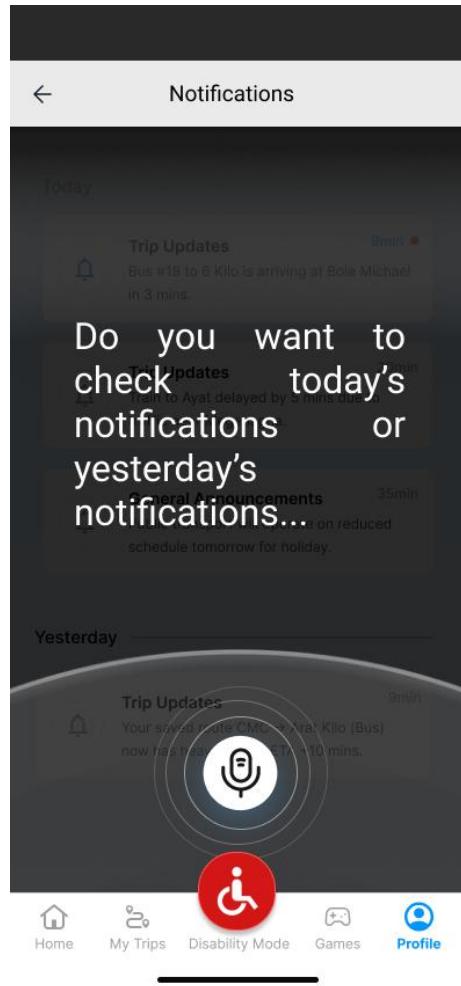
4.4 Notification (Option 4)

4.4.1 User Speak to navigate to Notifications - User



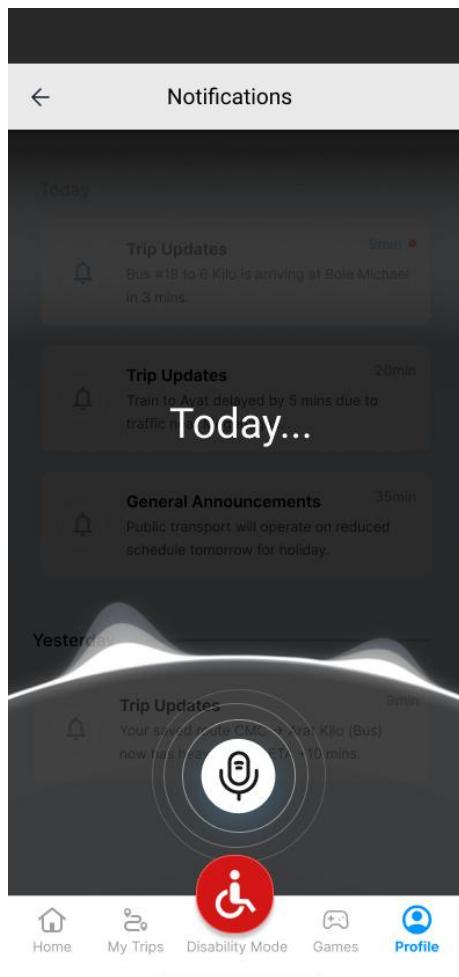
The user can speak to the AI Agent to check the notifications.

4.4.2 AI ask for which Notifications – AI Voice Agent



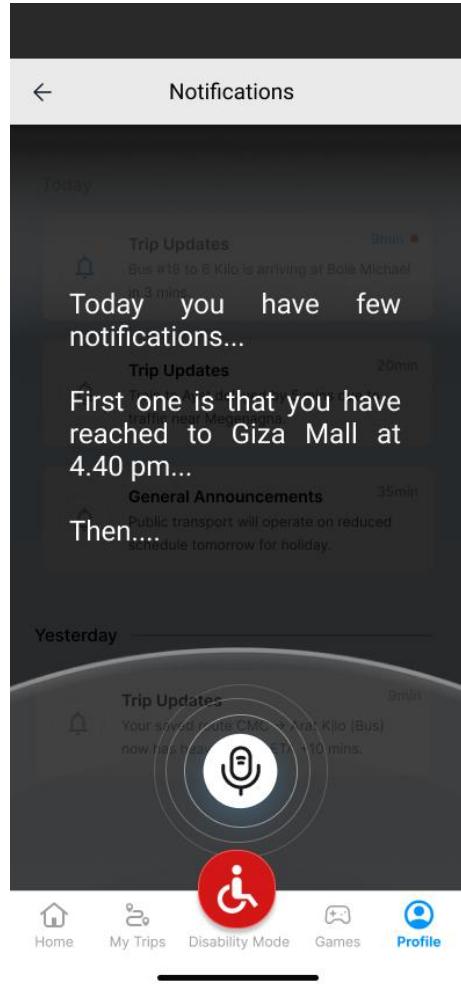
The AI Agent will then ask the user about the timeline of the notification that the user wants to know.

4.4.3 User ask for Today's Notifications - User



The user will reply with the notification timeline.

4.4.4 AI explains the Notifications – AI Voice Agent



The AI Agent will then announce the notifications details from the timeline that the user requested.

4.5 Change Languages (Option 5)

4.5.1 User Speak to change language - User



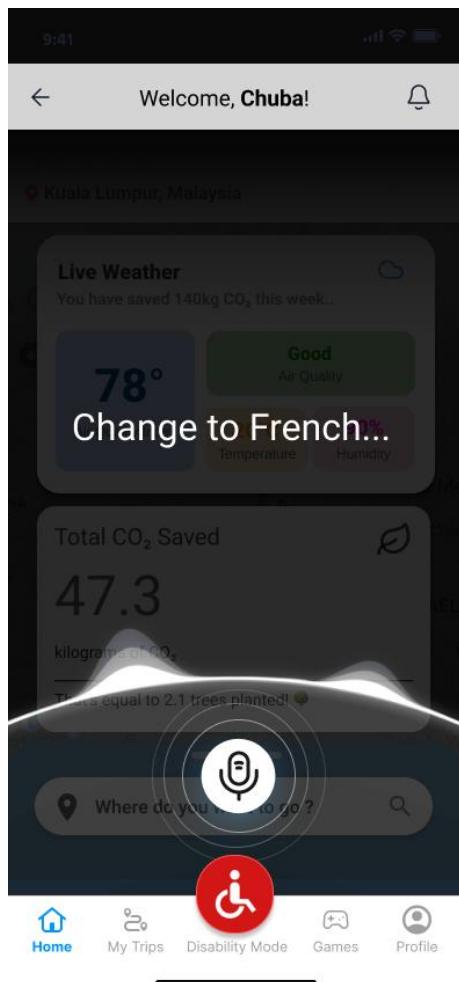
The user can speak to the AI Agent that they wanted to change the system's current language to their desired language.

4.5.2 Request which language - AI Agent Voice



The AI Agent will then process the audio input, and will proceed to ask the user on what language to be changed.

4.5.3 User chooses language - User



Then the user will then say the language name like “French”.

4.5.4 Language changed - AI Agent Voice



Then, the AI Agent will then process the input and then proceeds to change the system's language. Then the user has to interact with the system with their preferred language like in French.

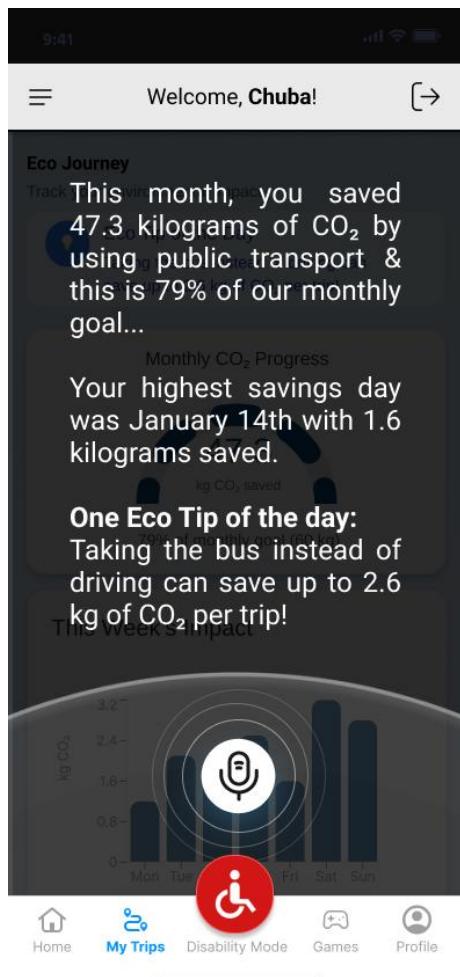
4.6 My Trips (Option 6)

4.6.1 User Speak to navigate to “My Trips” page - User



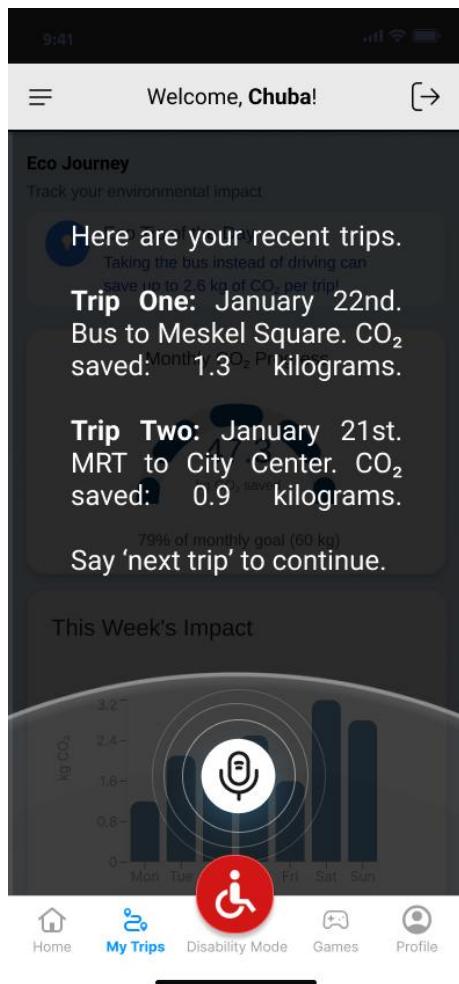
The user can speak to the AI Agent that they wanted to view their past trips or they wanted to view how much carbon footprint that they saved on the current time period. Then the system will navigate them to the “My Trips” page section.

4.6.2 Transit - Saved Carbons – AI Agent Voice



Then, the AI Agent will announce the amount of carbon foot print that the user saves in a month, and how much is it compared to the monthly goal. Then, the user will also speak out the eco tip for the user to save more carbon emission.

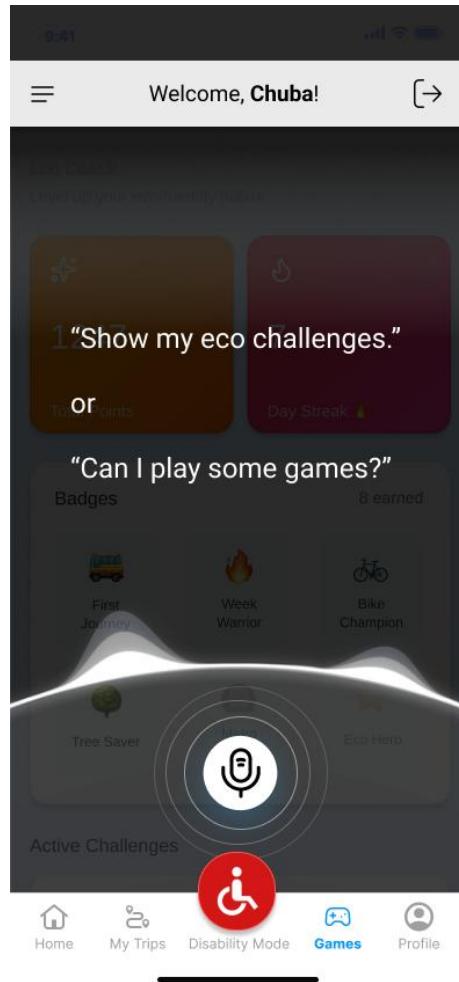
4.6.3 Transit – My Trips – AI Agent Voice



Then, the AI Agent will announce the recent trip details as requested by the user.

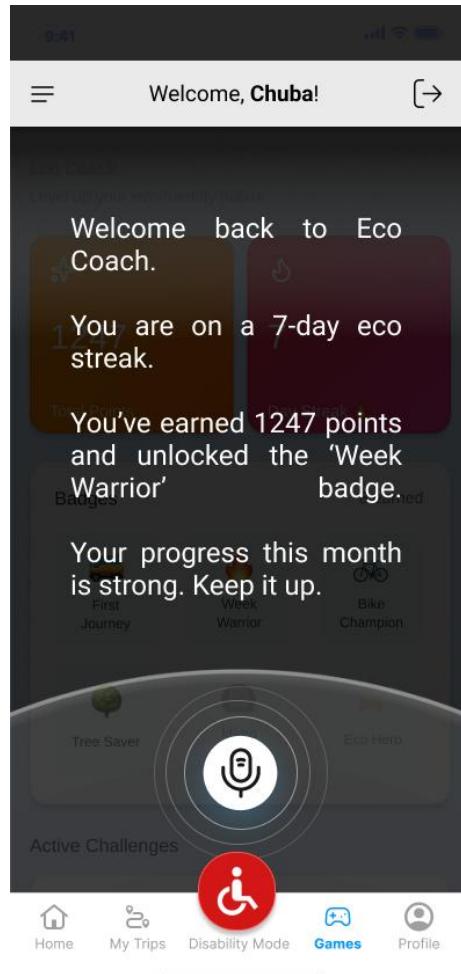
4.7 Games (Option 7)

4.7.1 User Speak to navigate to “Games” page - User



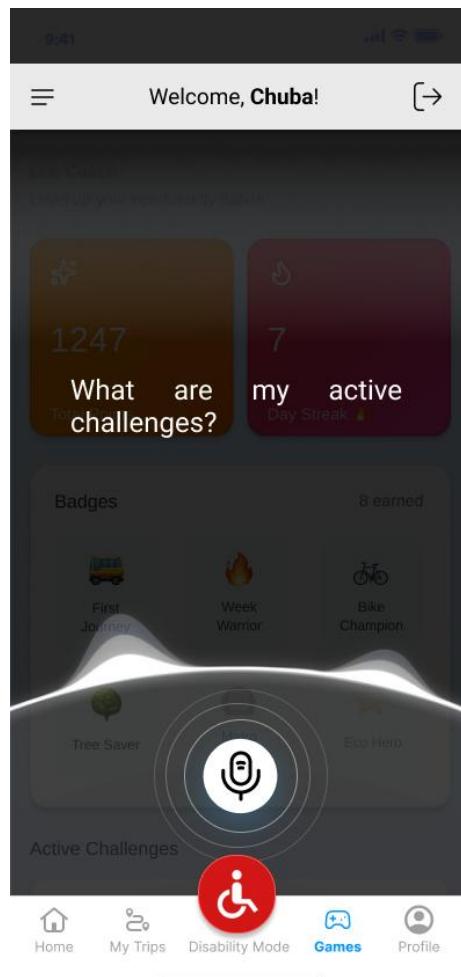
The user can speak to the AI Agent that they wanted to view their eco challenges or they wanted to play some games. Then the system will navigate them to the “Games” page section.

4.7.2 Transit - Challenge summary - AI Agent Voice



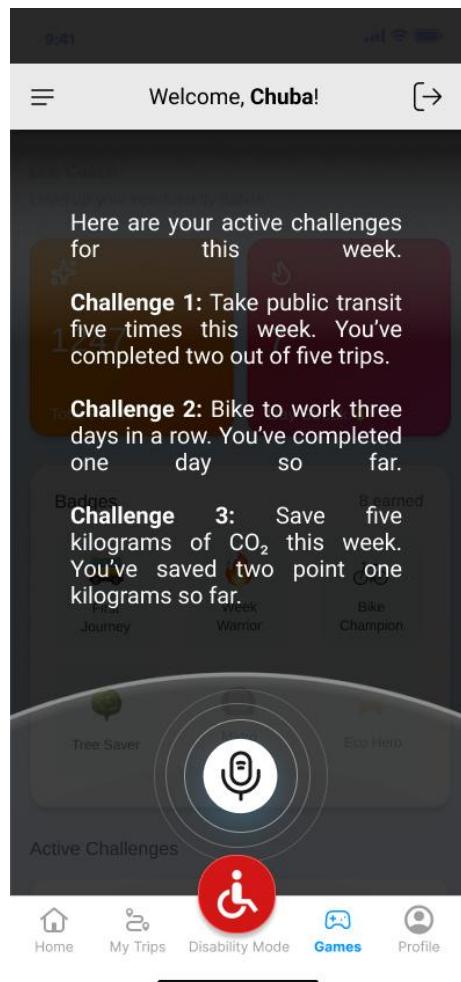
Then, the AI Agent will announce the number of streaks and how many points the user has earned and some motivational words.

4.7.3 Transit – Games - Active Challenges - User Speaks



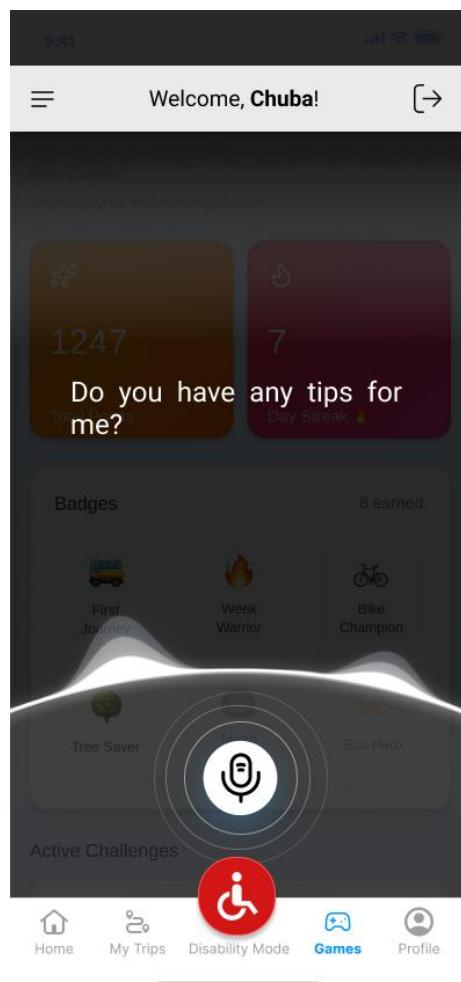
The user can also ask about their active challenges which will be treated like a game.

4.7.4 Transit – Games - Active Challenges - AI Agent Voice



Then, the AI Agent will announce the number of active challenges that the users can do in order to get rewarded.

4.7.5 Transit – Games - Personalised Trips - User Speaks



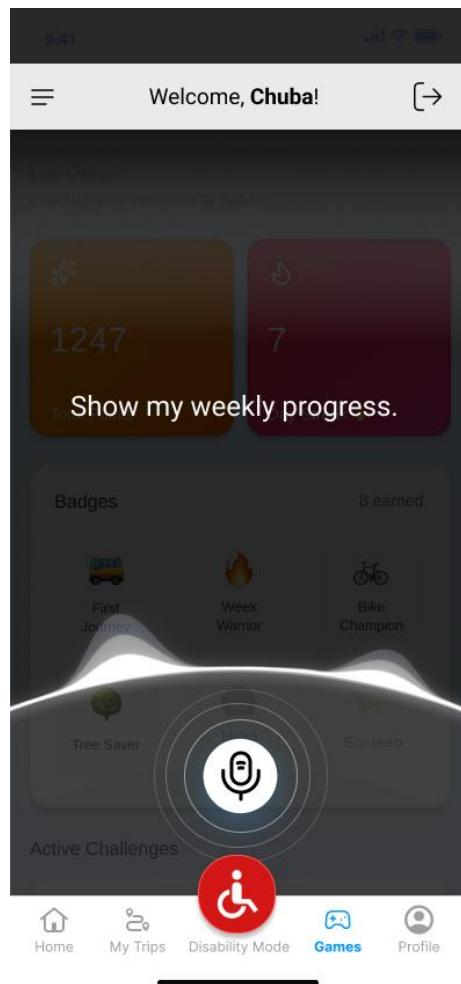
The user can also ask about any personalised tips based on recent trips.

4.7.6 Transit - Games- Personalised Trips - AI Agent Voice



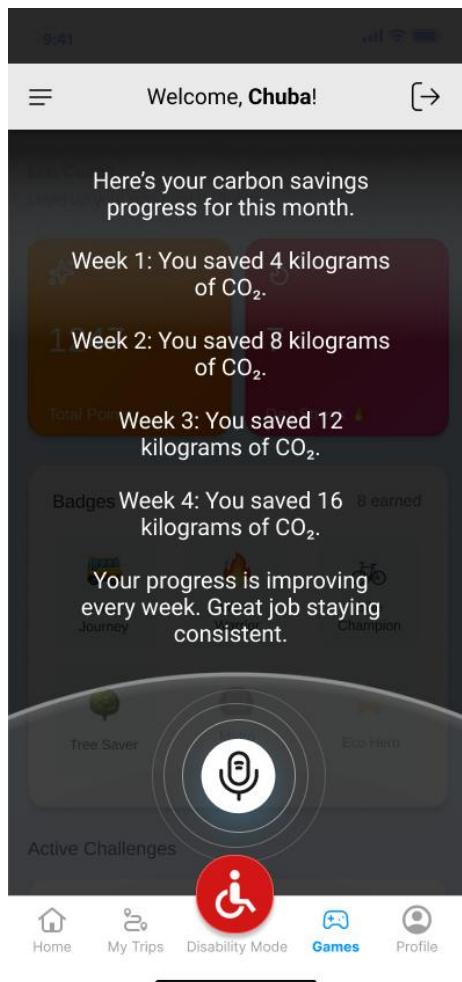
Then, the AI Agent will announce the list of personalised tips based on recent trips.

4.7.7 Transit - Games- Weekly Progress - User Speaks



The user can also ask about their weekly progress such as how much carbon they saved every week.

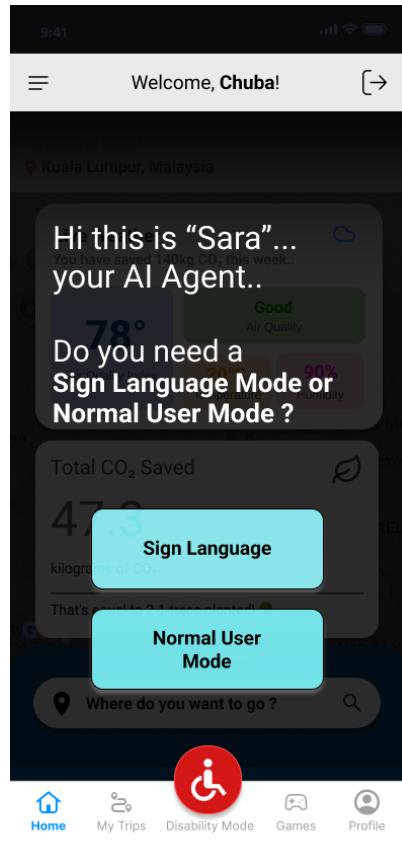
4.7.8 Transit - Games- Weekly Progress - AI Agent Voice



Then, the AI Agent will announce the weekly progress such as how much carbon they have saved every week.

Hearing/Speech Disabilities

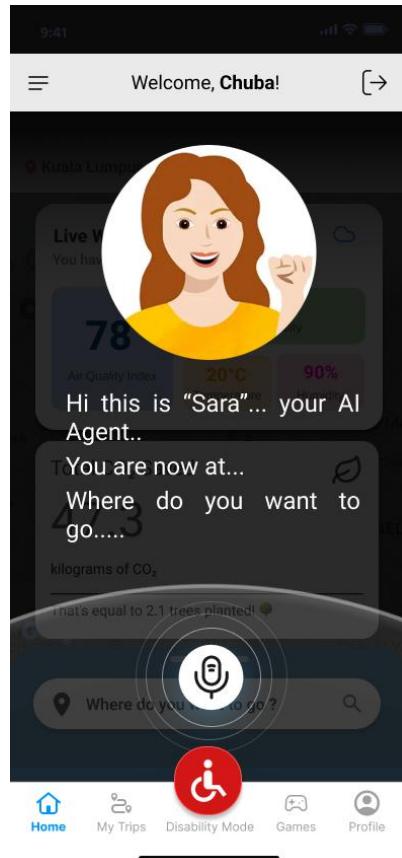
5.0 User choose options - Hearing Disabilities



If the user taps the “hear” or “Lips” button, the system’s mode will be changed to Hearing Disability’s mode and they will be navigated to the Hearing Disability UI as shown in the screen above. This mode will be handled by Gemini AI Assistant. The agent will introduce itself and ask if the user chooses a “Sign Language Interpreter Mode” or “Normal User Mode” and users will have to tap the options.

This was introduced because we can assume that some of the user’s that have hearing or speech disability may not have visual disability. So those who can see visually can choose to use the “Normal User Mode”

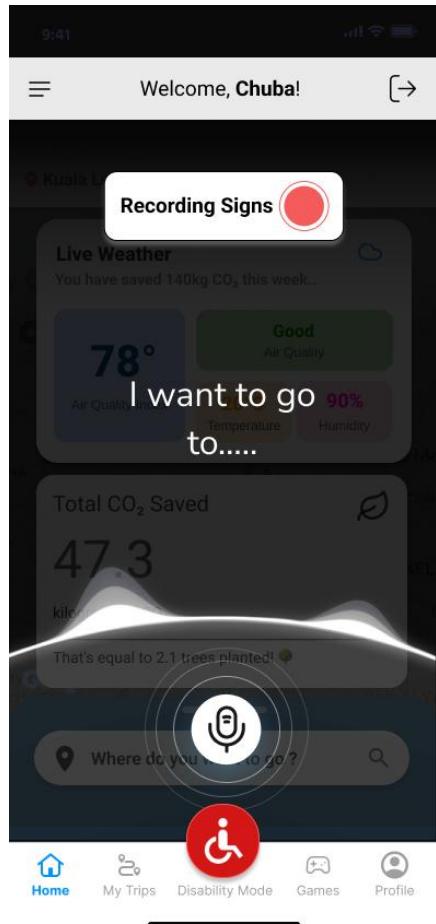
5.1 User choose options - Hearing Disabilities



If the user taps the “Sign Language Mode” button, the system’s mode will be changed to Hearing Disability mode and they will be navigated to the Hearing Disability UI as shown in the screen above. This mode will be handled by Gemini AI Assistant. The agent will introduce itself and announce the live location of the user. Then the AI Agent called Sara will ask the user on their destination location. The announcement will also be interpreted as a Sign Language through the AI Avatar.

5.2 Journey (Option 1)

5.2.1 Replied Destination - User Speak to reply



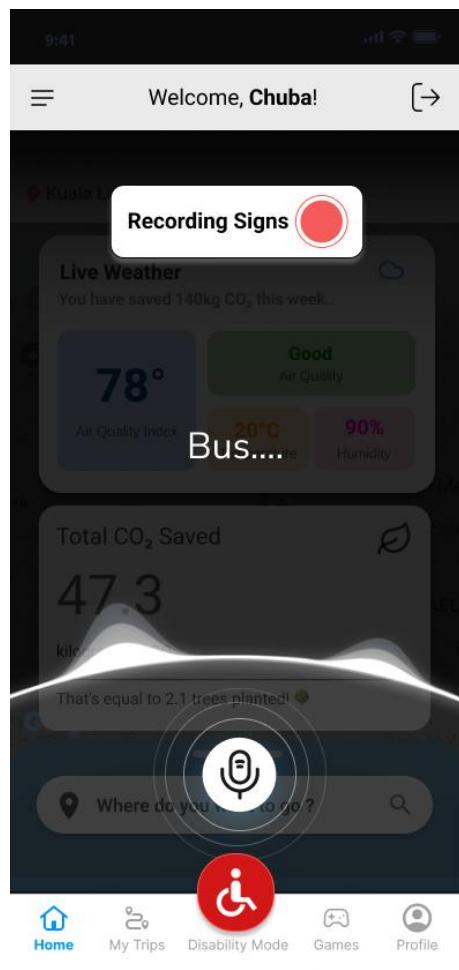
The user can speak to the AI Agent regarding where he/she wanted to go to or destination location. The user can also use their sign language to explain their instructions. The system will then records the user's signs and process to translation.

5.2.2 Choose Transport Options - AI Agent Hear



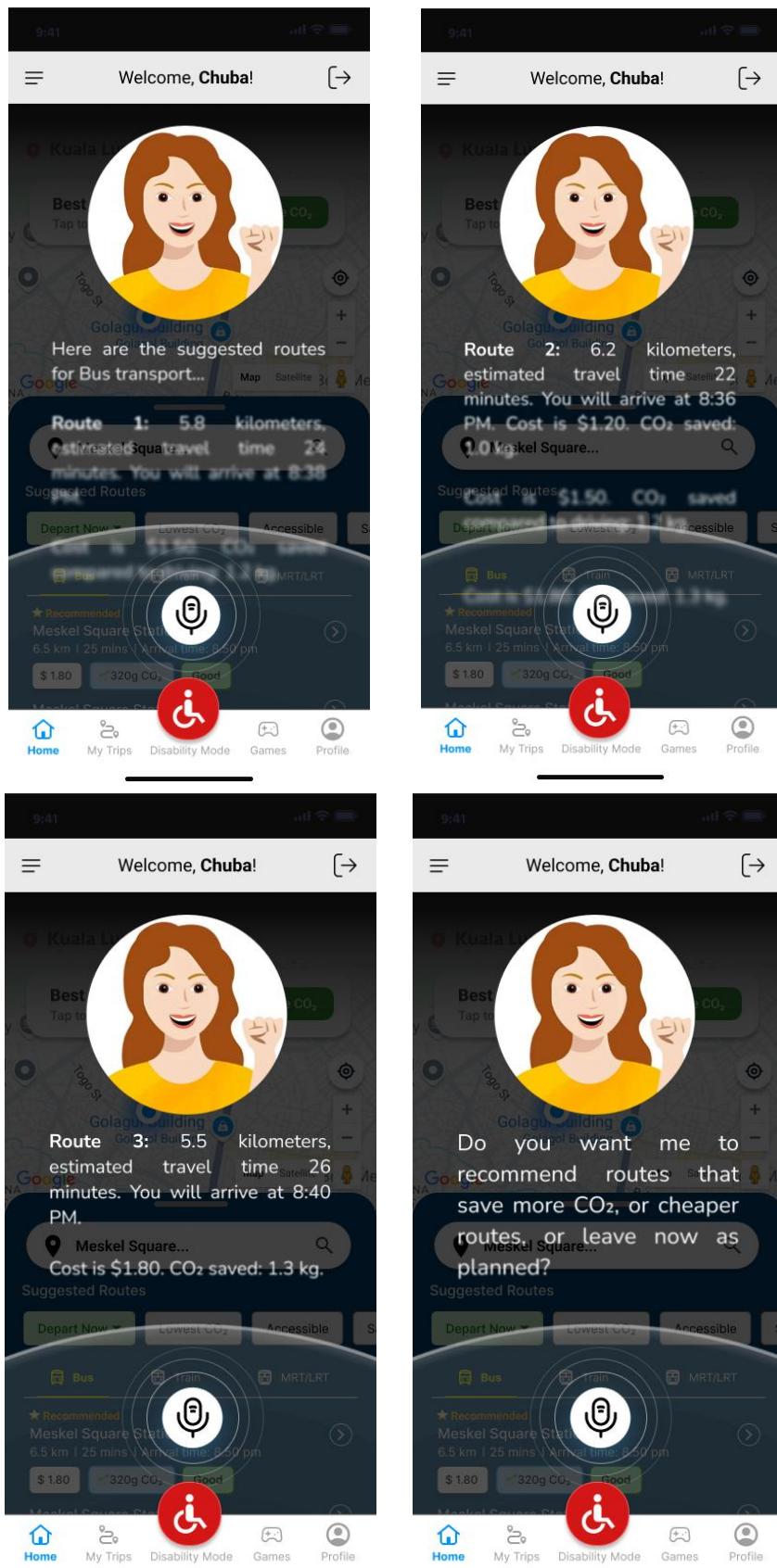
The AI Agent Sara will process the user's input audio and ask the user about the “mode of transport” before suggesting the best routes through audio or sign language.

5.2.3 User choose Bus - User Speak to reply



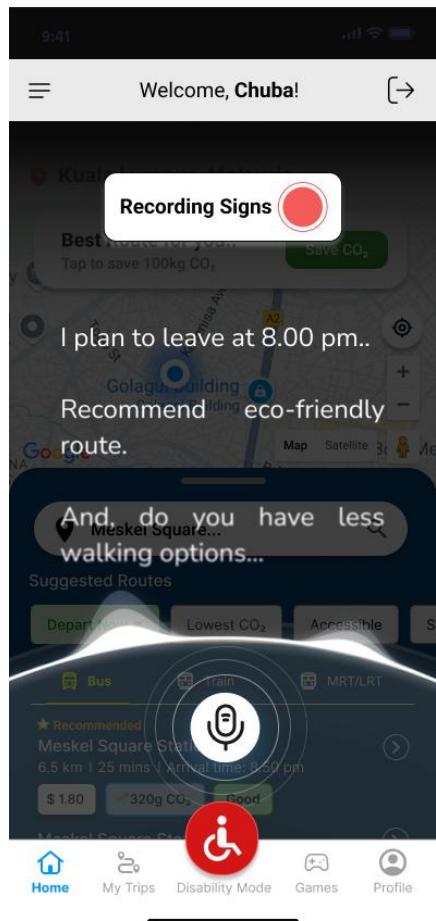
The user will say or show signs of their preferred mode of transport.

5.2.4 Find Best Route for Bus Transport - AI Agent Hear



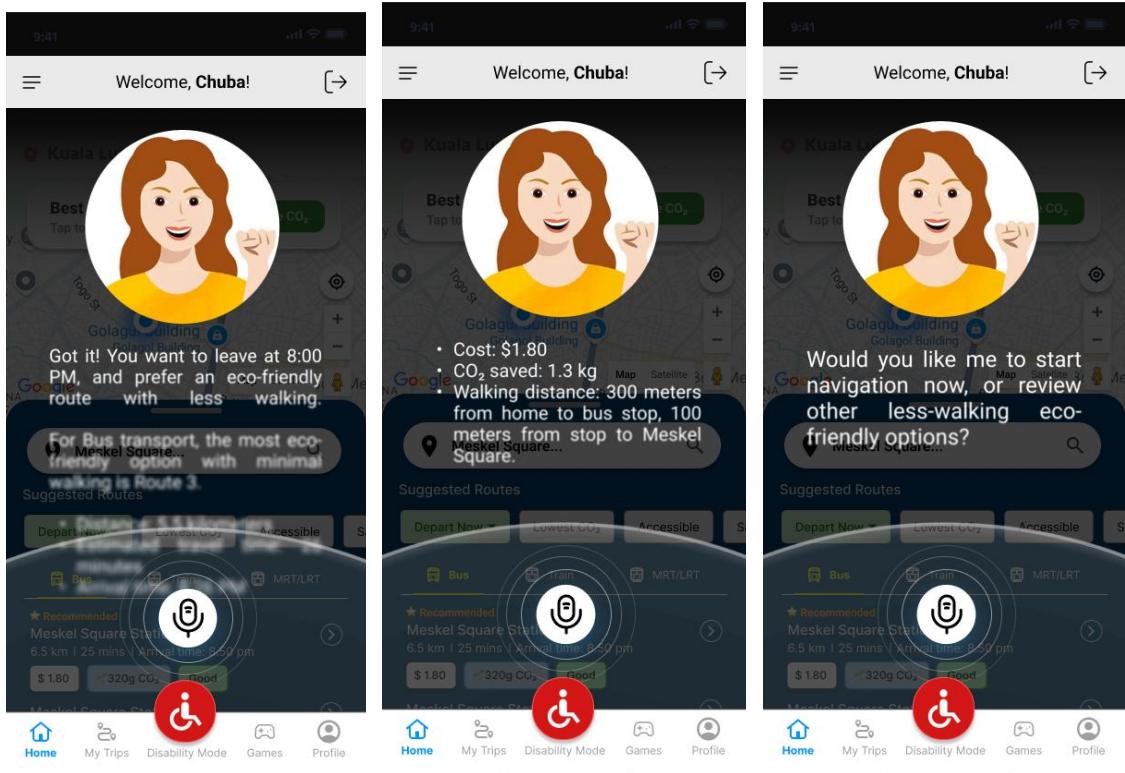
The user will process the input audio and recorded signs and explain or show signs of the routes available and its full details such as the distance, journey time taken, arrival time and travelling cost. These details will be based on the mode of transport that the user has chosen. Then the AI Avatar/Agent will reply if the user wants better options or recommendation, then pause and wait for users respond.

5.2.5 User changes route preference - User Speaks



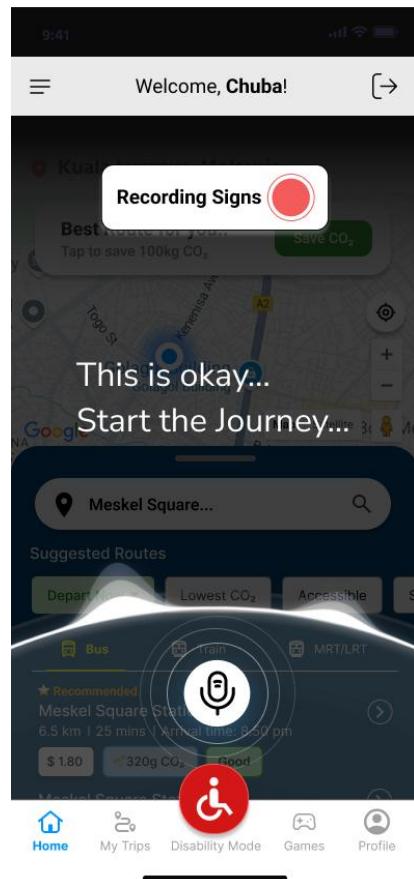
The user will then allow to say or show signs about what time they plan to leave/ start their journey and other options if they want, such as less walking options.

5.2.6 Regenerate Best Route for Bus Transport - AI Agent Hear



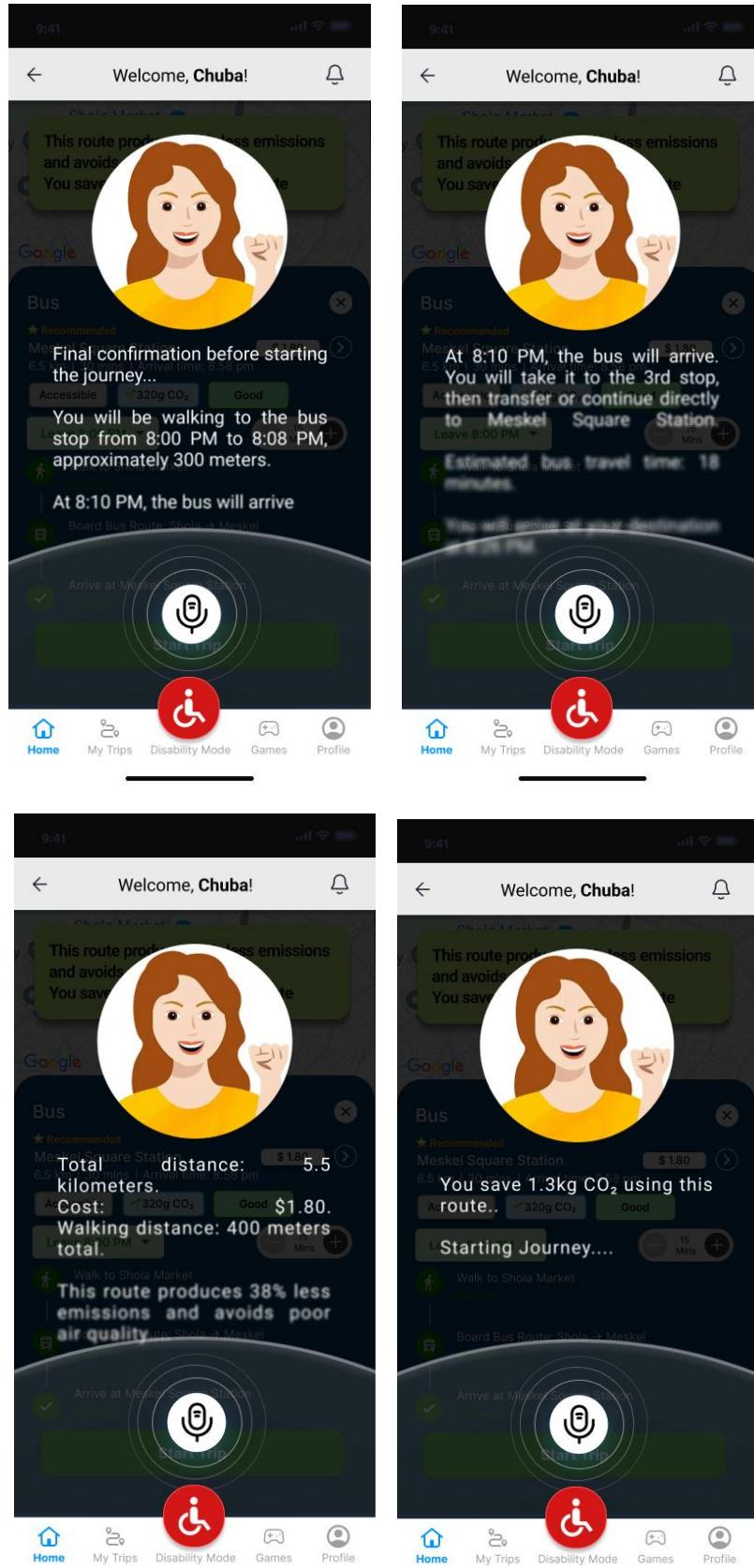
The AI Agent will process the user's input audio or signs and will recalculate the route based on user's preference and explain the available route again. Then the AI Agent will pause to hear the user's respond.

5.2.7 Start Journey - Speak to reply



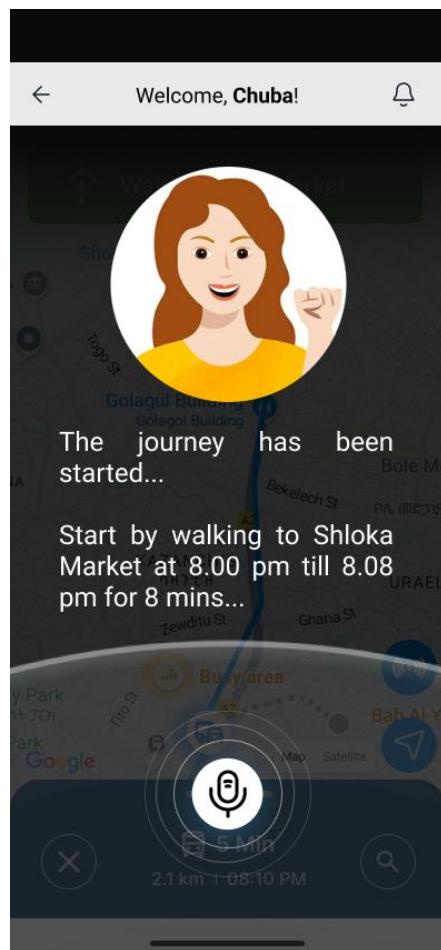
If the user is satisfied with the selected route, they can say “Start the Journey” or show signs to start the journey or keep negotiation with other preference.

5.2.8 Final Route Confirmation before start - AI Agent Hear



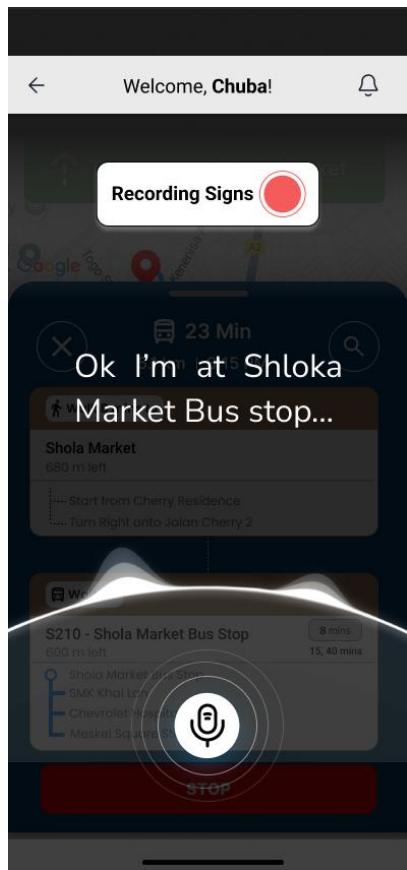
After hearing or seeing the signs, the AI Agents will announce the full details of the final chosen journey before the system starts the journey.

5.2.9 AI Agent Guides the Trip - AI Agent Hear



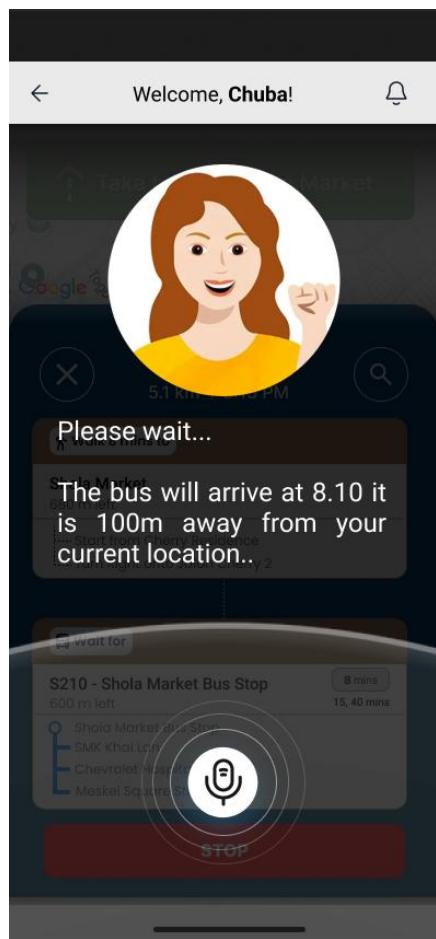
Then the journey will be started by the system and the AI Agent will be guiding the users verbally or through signs throughout their journey.

5.2.10 Updates location - User Speak to reply



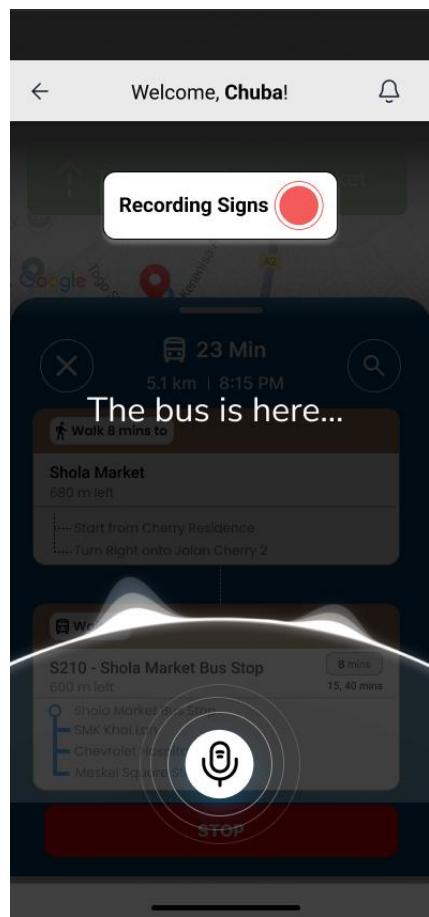
Then the user will reply with their every action to the AI Agent.

5.2.11 AI Agent Guides the Trip 2 - AI Agent Hear

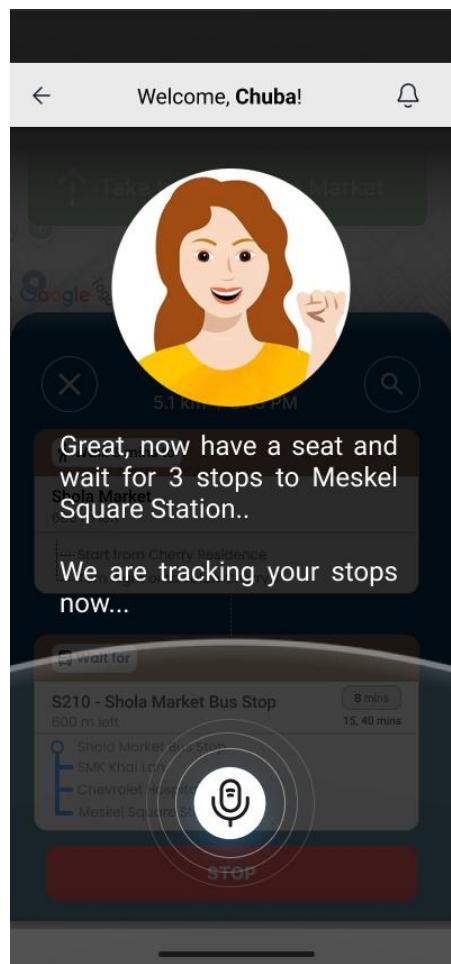


After hearing or seeing the signs of the current status of the user, the AI Agent continue guiding the user towards the end of their journey.

5.2.12 User Updates Bus arrival - User Speak to reply

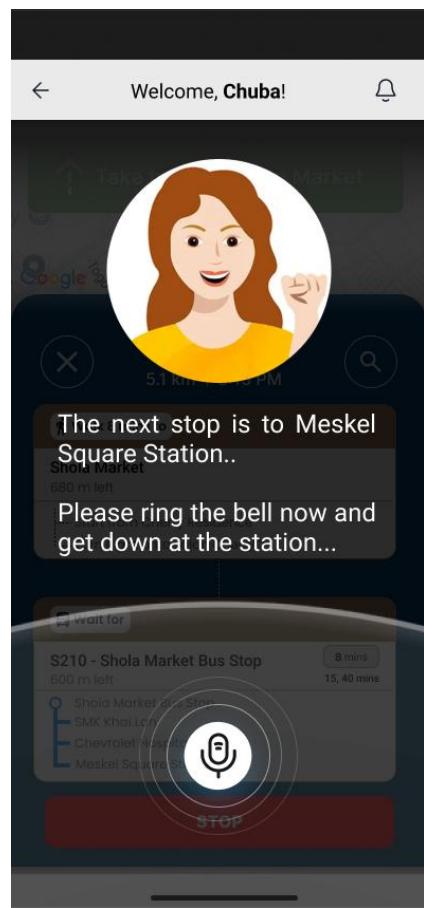


5.2.13 AI Agent Guides the Trip 3 - AI Agent Hear

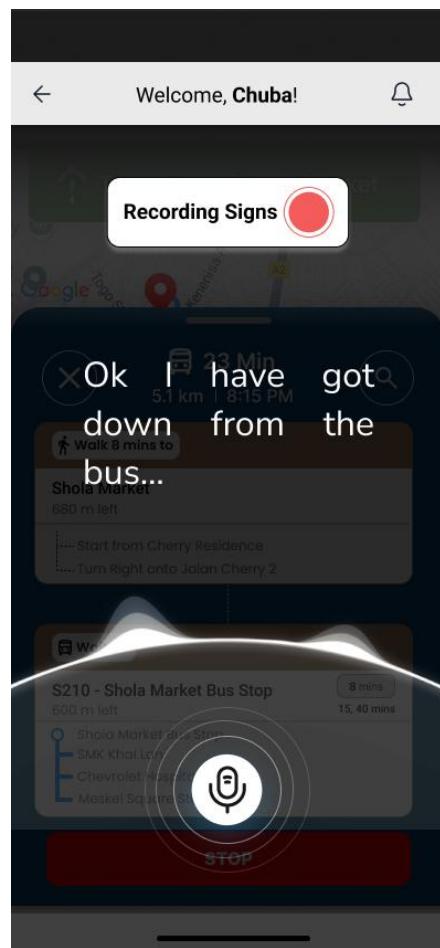


When the user has got into the bus, the system will be tracking the user's current location/bus station checkpoint to guide the user to get down at the current bus stop to arrive at the correct destination.

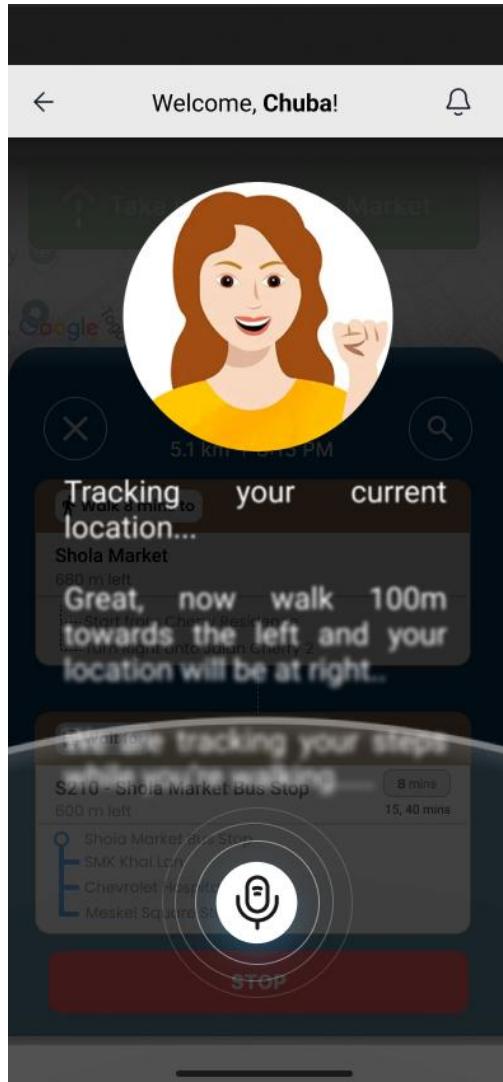
5.2.14 AI Agent Alerts Bus Stop - AI Agent Hear



5.2.15 User updates location - User Speak to reply

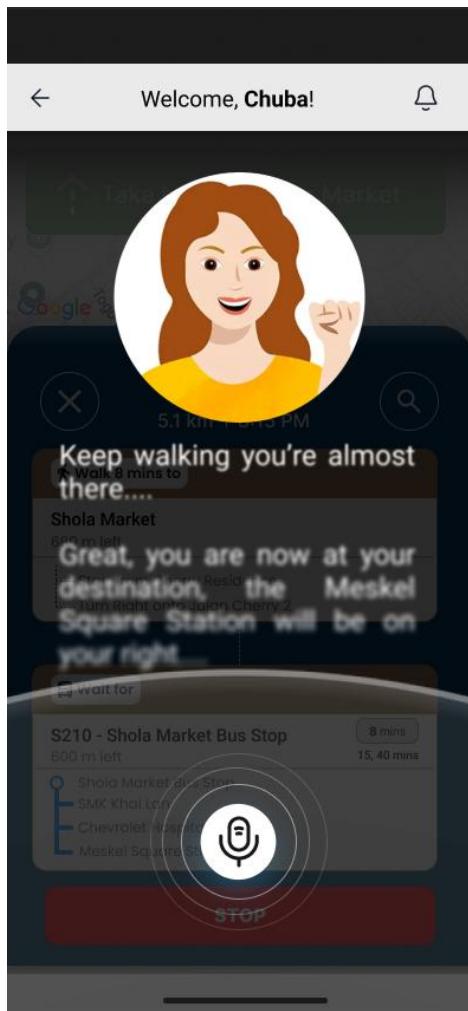


5.2.16 AI Agent Guides the Trip 4 - AI Agent Hear



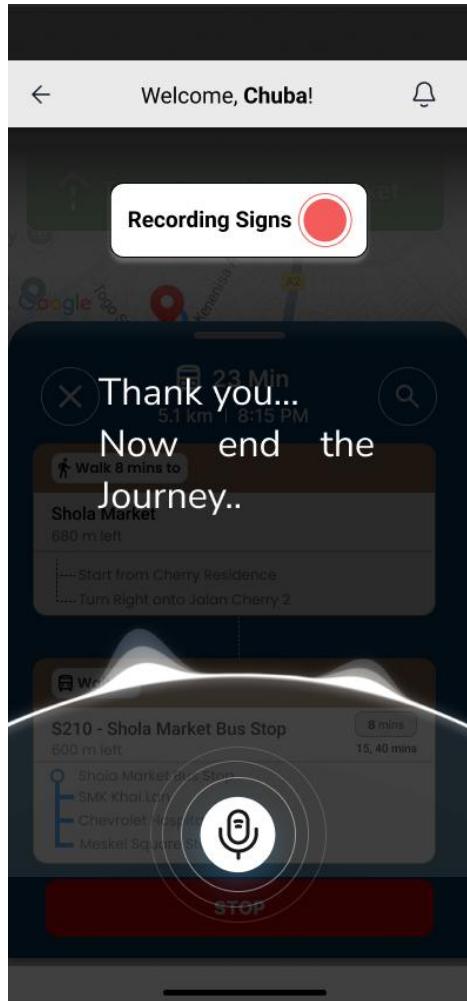
When the user has got down from the bus at the bus stop, the system will calculate the user's current step and then keep guiding the user.

5.2.17 AI Agent Guides the Trip 5 - AI Agent Hear



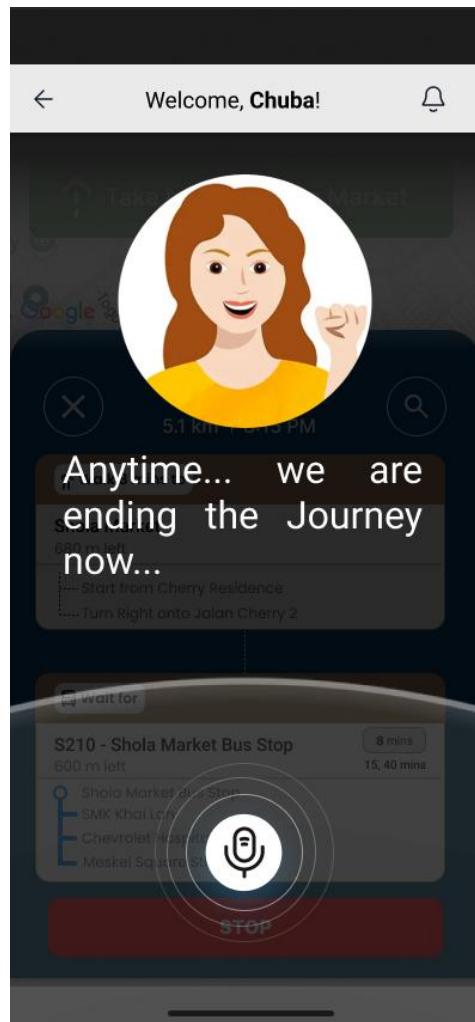
Once the user has arrived at the destination the system will track the user's current location to confirm. Once confirmed the AI Agent will announce to the user that they have successfully arrived at their destination.

5.2.18 User Thank AI Agent - User Speak to reply



Once the user has arrived, they can say “End the Journey” or show signs to exit the journey.

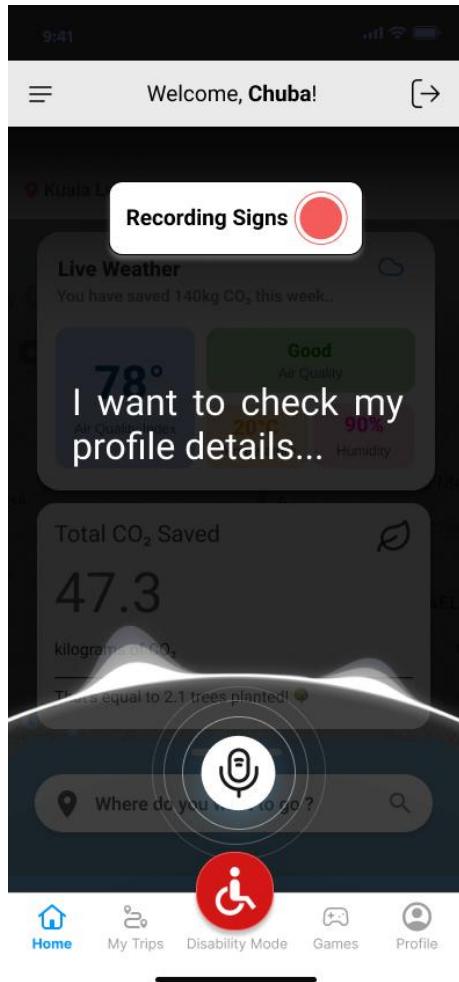
5.2.19 AI Agent Ends Trip - AI Agent Hear



The system will track the user's current journey to confirm if the user has arrived at the destination and will end the journey.

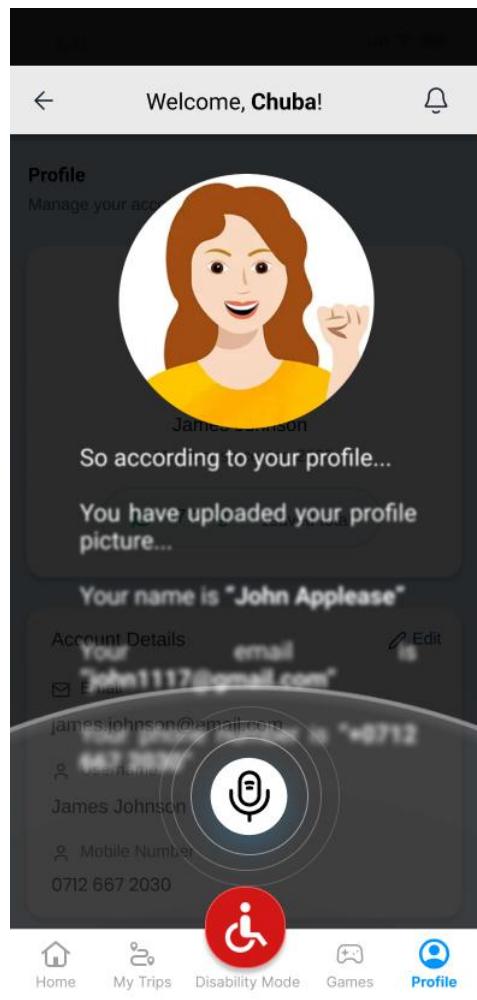
5.3 Editing (Option 2)

5.3.1 Navigate to Profile Page - User Speaks



The user can speak or shows signs through the recordings to the AI Agent that they wanted to check the profile details.

5.3.2 AI Agents Speaks Profile Details - AI Agent Hear



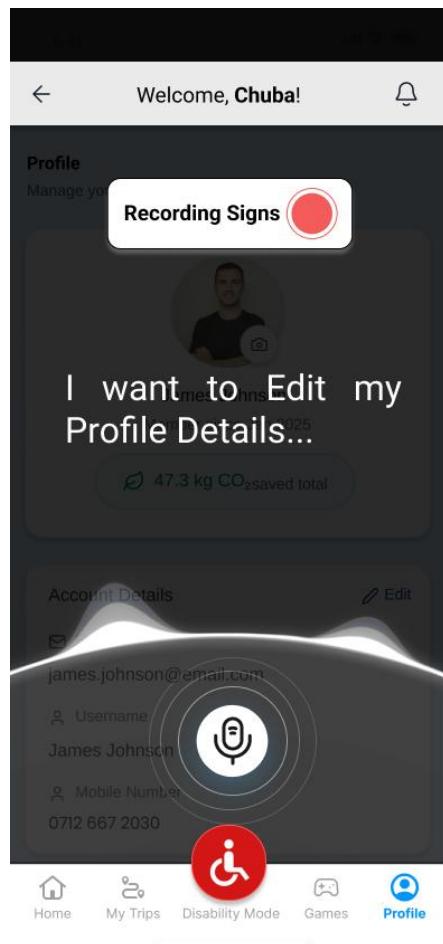
The AI Agent will then explain to the user about their profile details that they have stored in the system.

5.3.3 Edit/Sign out - AI Voice Hear



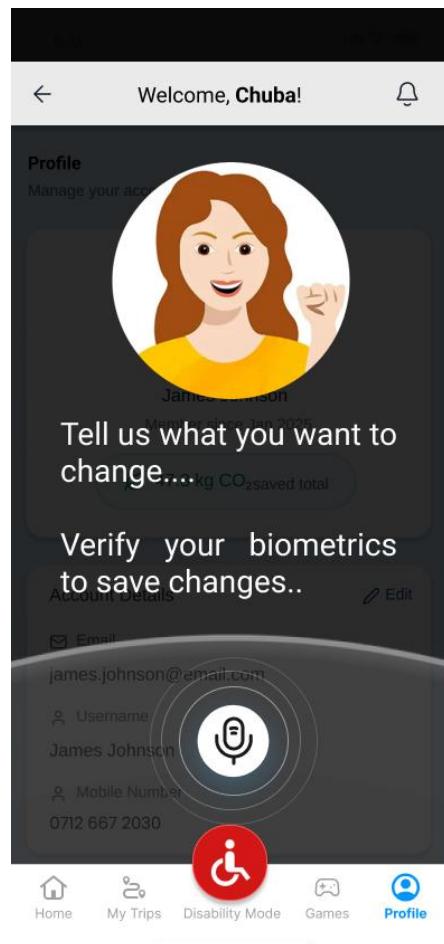
Then the AI Agent will ask the user if they want to edit their profile details or Sign Out.

5.3.4 Edit profile - User Speaks



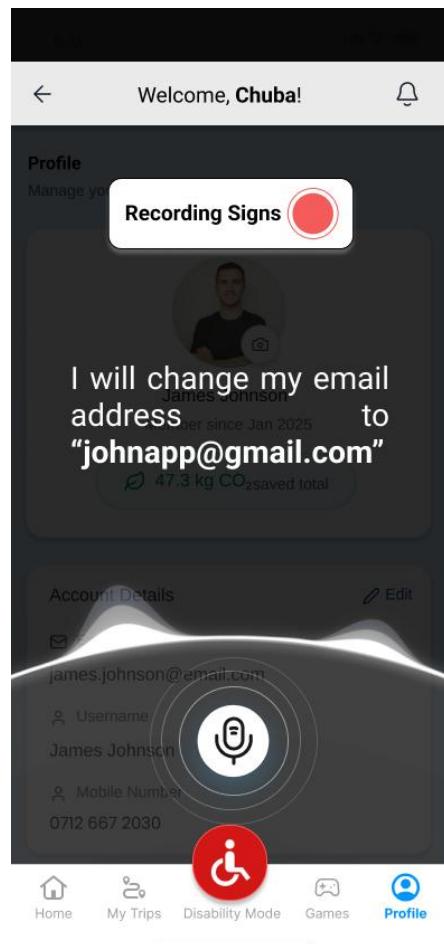
The user can ask verbally to edit the details and the system will change their profile details according to their request.

5.3.5 Asking what to change - AI Agent Hear



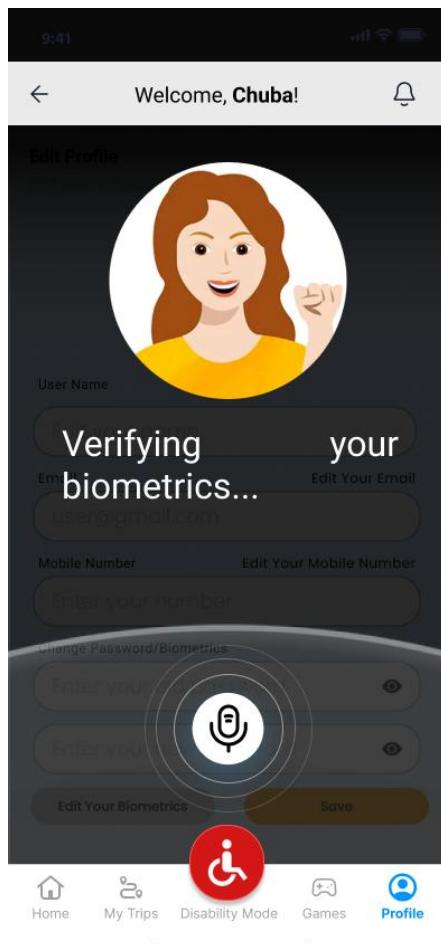
The AI Agents will process the input and reply with what details the user wanted to change.

5.3.6 Change Email - User Speaks



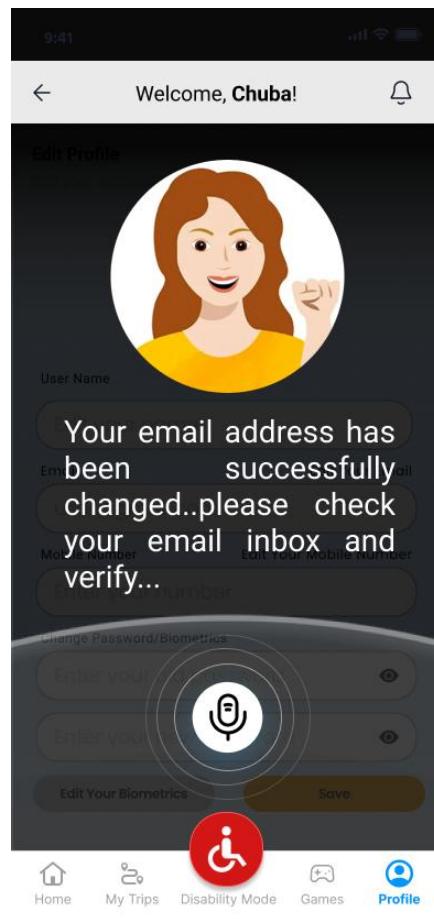
The user will say or shows signs of the details that they wanted to change such as the email address and verify their biometrics for the system to validate if they are the authorized user.

5.3.7 AI verifies Biometrics - AI Agent Hear



The system will then process the input audio and signs and verify the input biometrics.

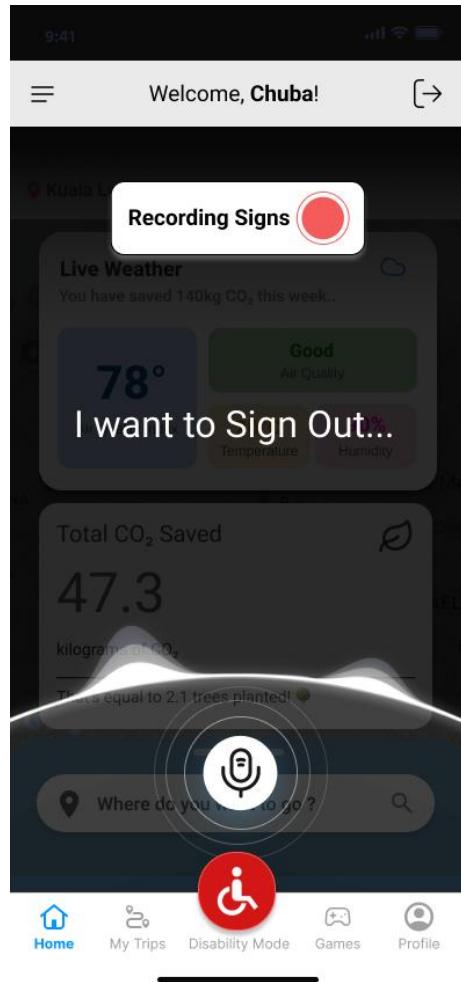
5.3.8 Email Address Changed - AI Agent Hear



Then, the AI agent will process the input audio and change it accordingly. Then, it will announce the user about the new email, so that the user can change it if it's wrong.

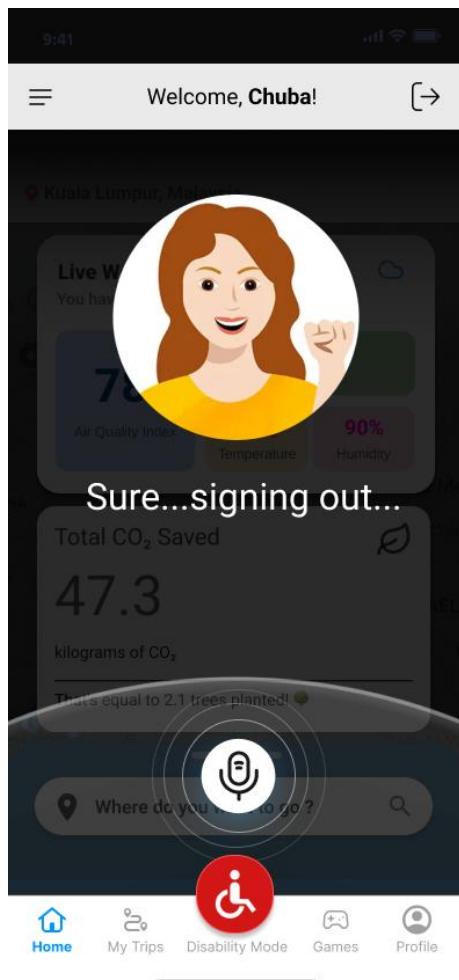
5.4 Sign Out (Option 3)

5.4.1 User Speak to Sign Out - User Speaks



The user can speak or show signs to the AI Agent that they wanted to sign out.

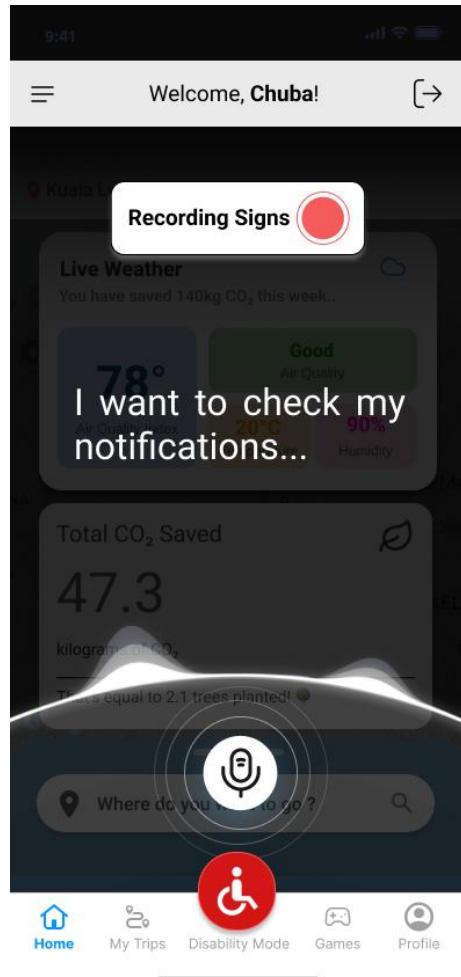
5.4.2 Sign out - AI Agent Hear



The AI Agent will process the input audio and signs the user out form the system.

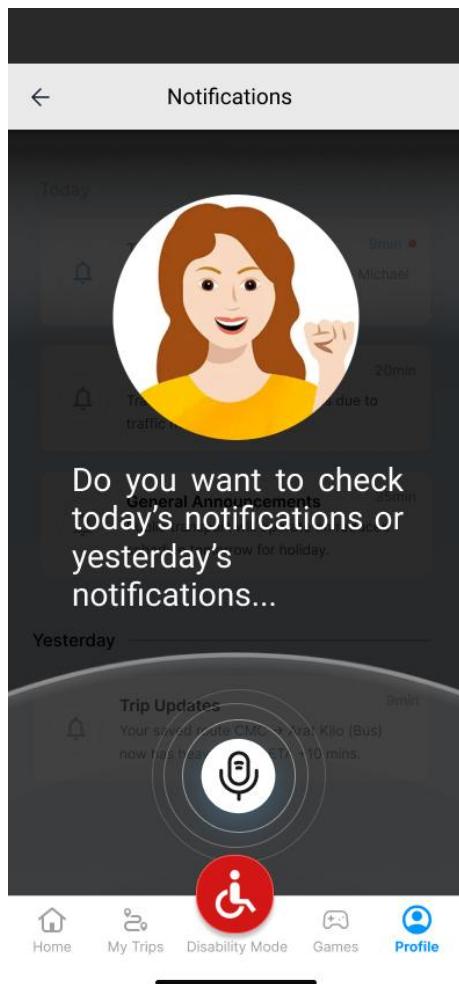
5.5 Notification (Option 4)

5.5.1 User Speak to navigate to Notifications - User Speaks



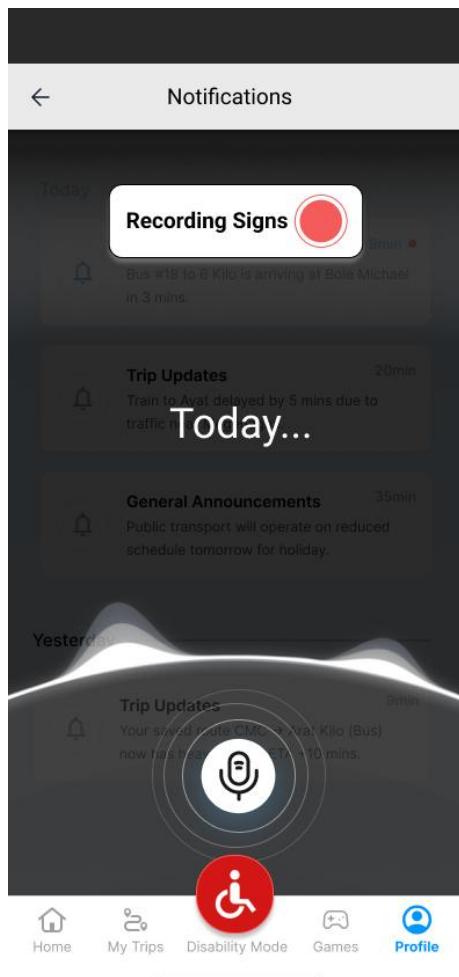
The user can speak to the AI Agent to check the notifications.

5.5.2 AI ask for which Notifications - AI Voice Hear



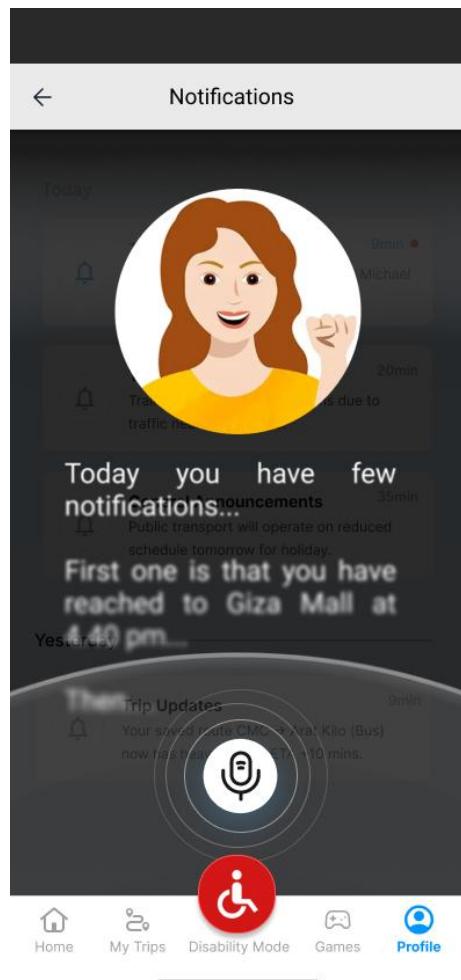
The AI Agent will then ask the user about the timeline of the notification that the user wants to know.

5.5.3 User ask for Today's Notifications - User Speaks



The user will reply with the notification timeline.

5.5.4 AI explains the Notifications - AI Voice Hears



The AI Agent will then announce the notifications details from the timeline that the user requested.

5.6 Change Languages (Option 5)

5.6.1 User Speak to change language - User Speaks



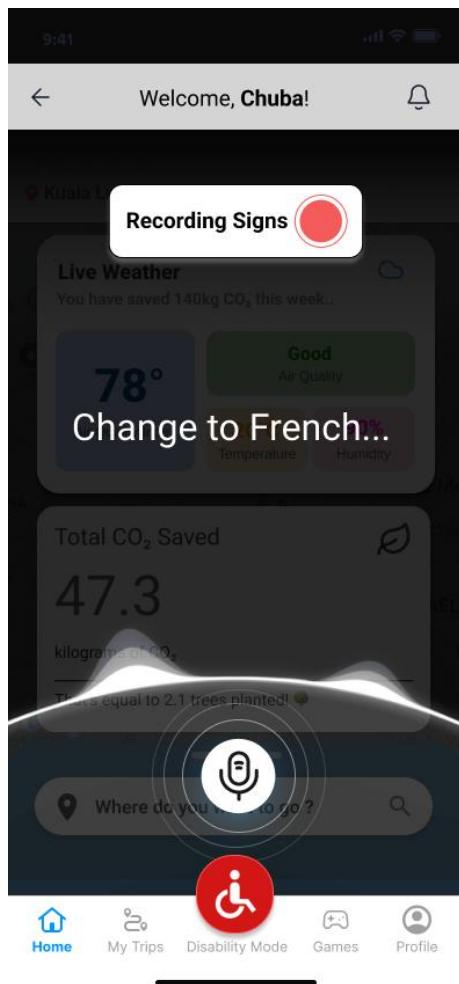
The user can speak to the AI Agent that they wanted to change the system's current language to their desired language.

5.6.2 Request which language - AI Agent Hear



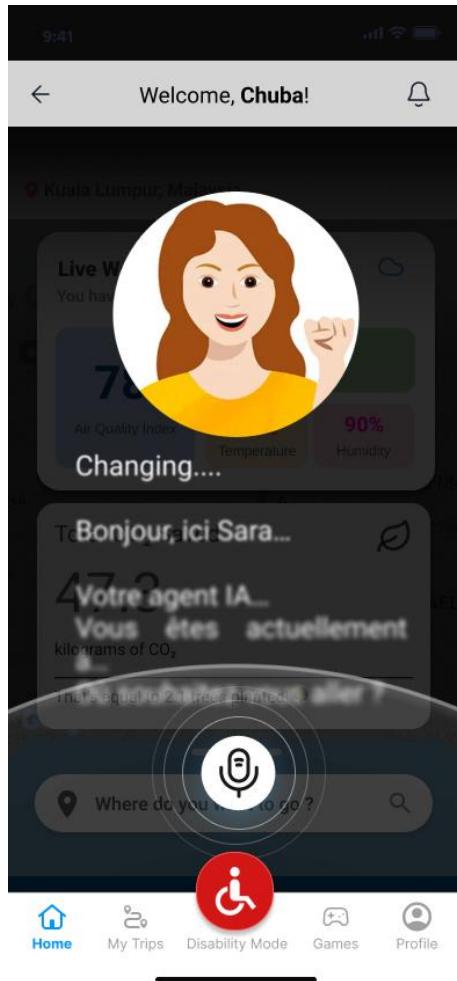
The AI Agent will then process the audio or recorded signs input, and will proceed to ask the user on what language to be changed.

5.6.3 User chooses language - User Speaks



Then the user will then say or shows signs of the language name like “French”.

5.6.4 Language changed - AI Agent Hear



Then, the AI Agent will then process the input and then proceeds to change the system's language. Then the user has to interact with the system with their preferred language like in French.

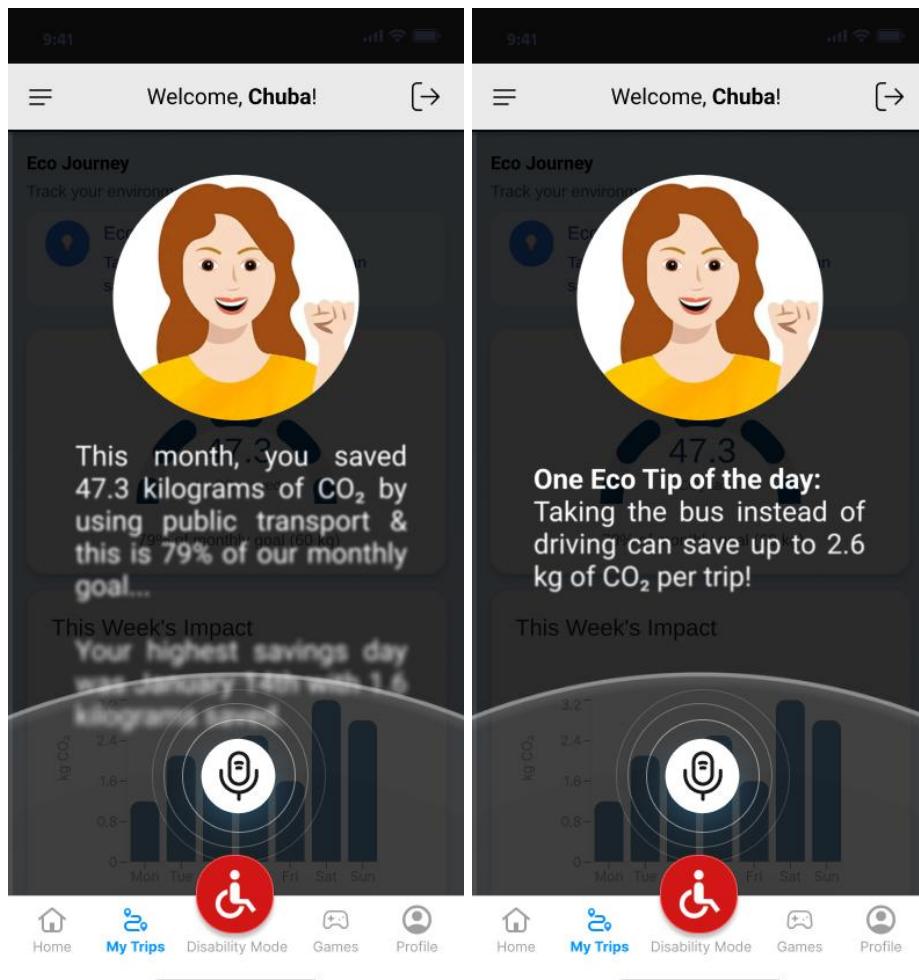
5.7 My Trips (Option 6)

5.7.1 User Speak to navigate to “My Trips” page - User



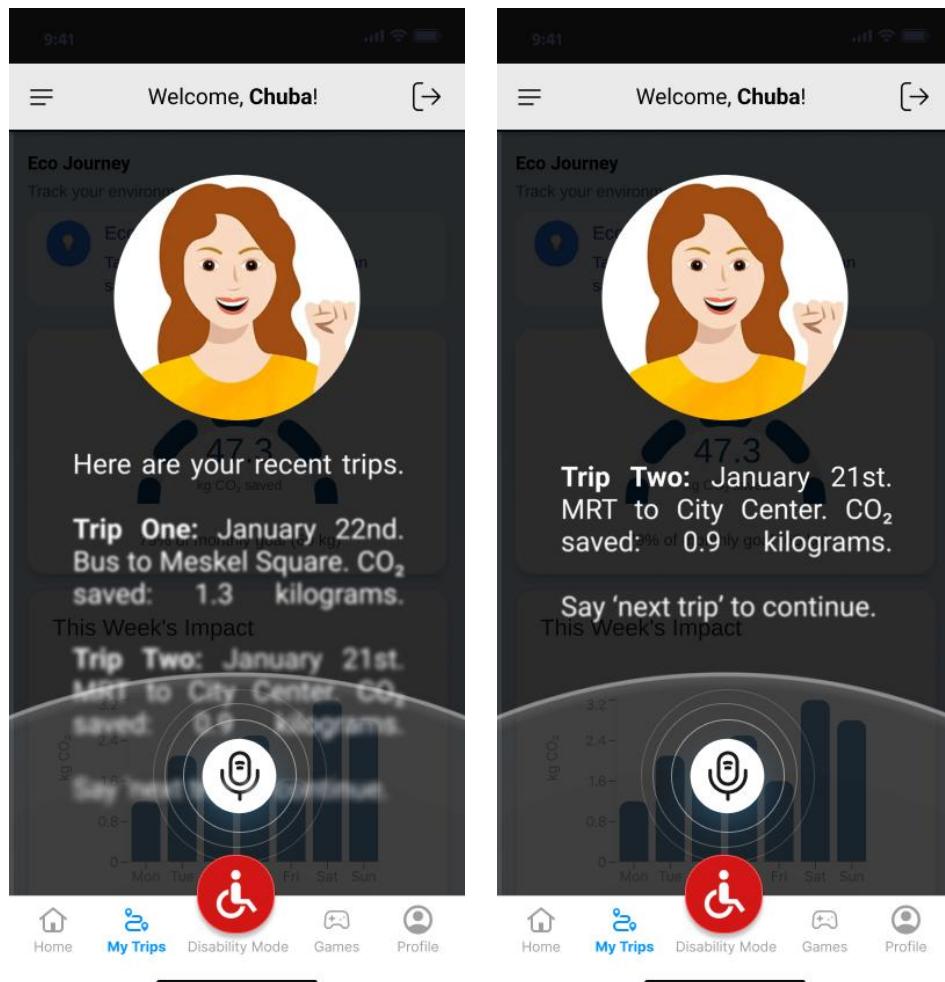
The user can speak to the AI Agent that they wanted to view their past trips or they wanted to view how much carbon footprint that they saved on the current time period. Then the system will navigate them to the “My Trips” page section.

5.7.2 Transit - Saved Carbons – AI Agent Voice



Then, the AI Agent will announce the amount of carbon foot print that the user saves in a month, and how much is it compared to the monthly goal. Then, the user will also speak out the eco tip for the user to save more carbon emission.

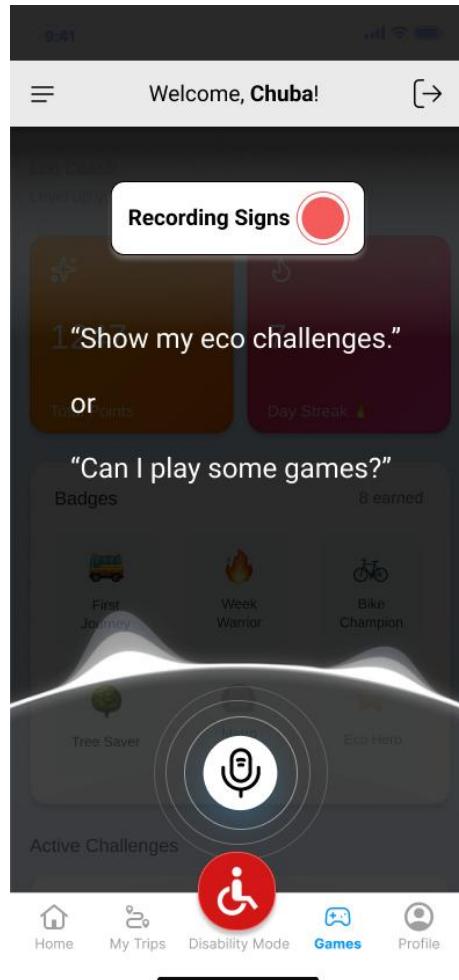
5.7.3 Transit – My Trips – AI Agent Voice



Then, the AI Agent will announce the recent trip details as requested by the user.

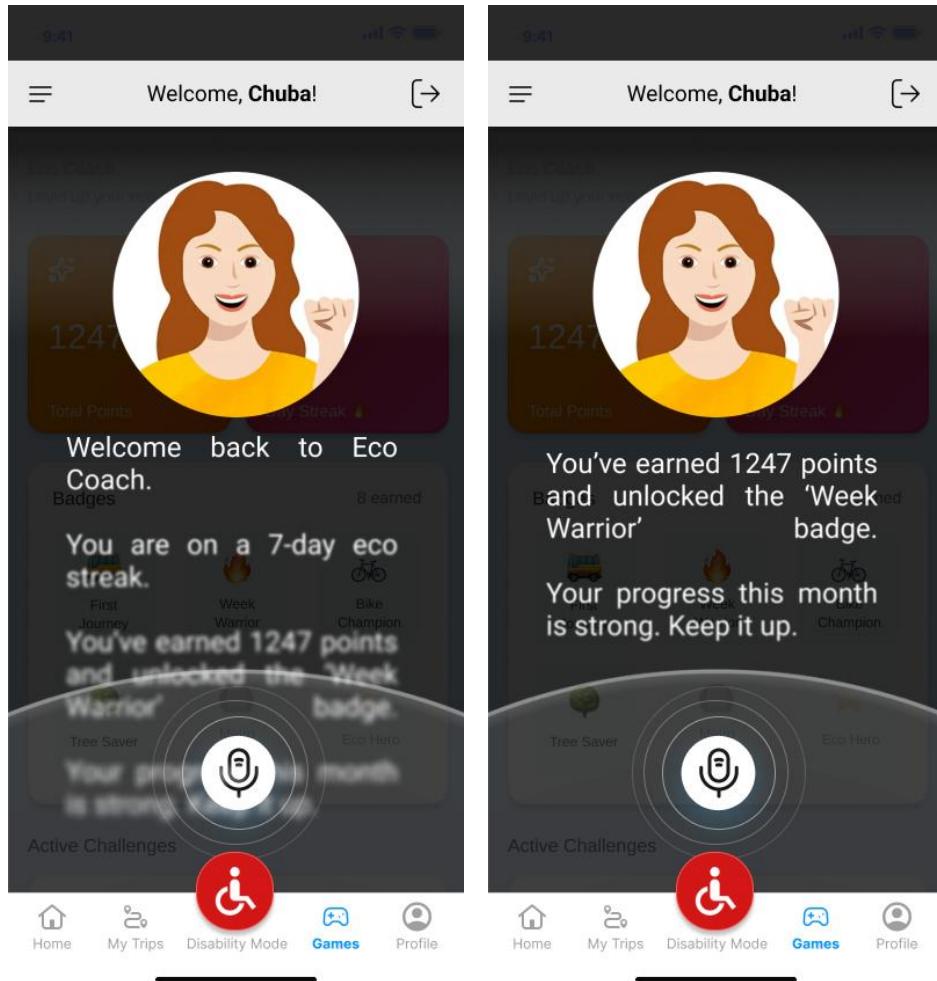
5.8 Games (Option 7)

5.8.1 User Speak to navigate to “Games” page - User



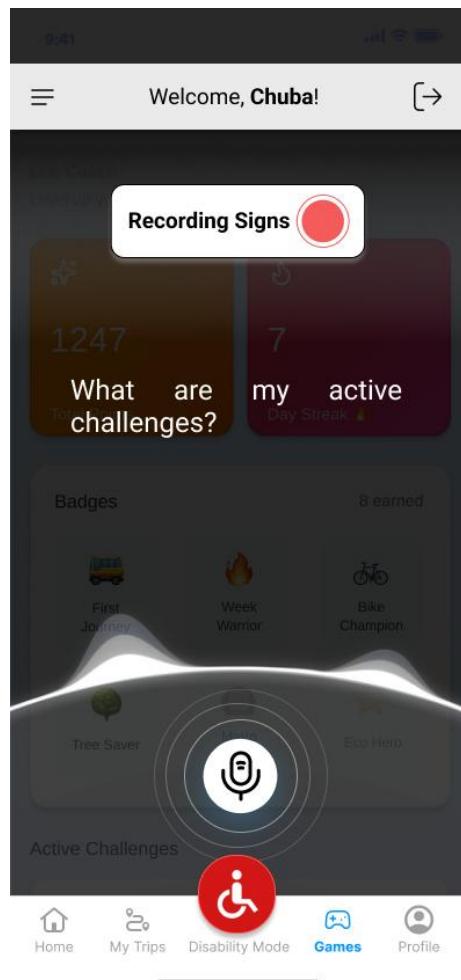
The user can speak to the AI Agent that they wanted to view their eco challenges or they wanted to play some games. Then the system will navigate them to the “Games” page section.

5.8.2 Transit - Challenge summary - AI Agent Voice



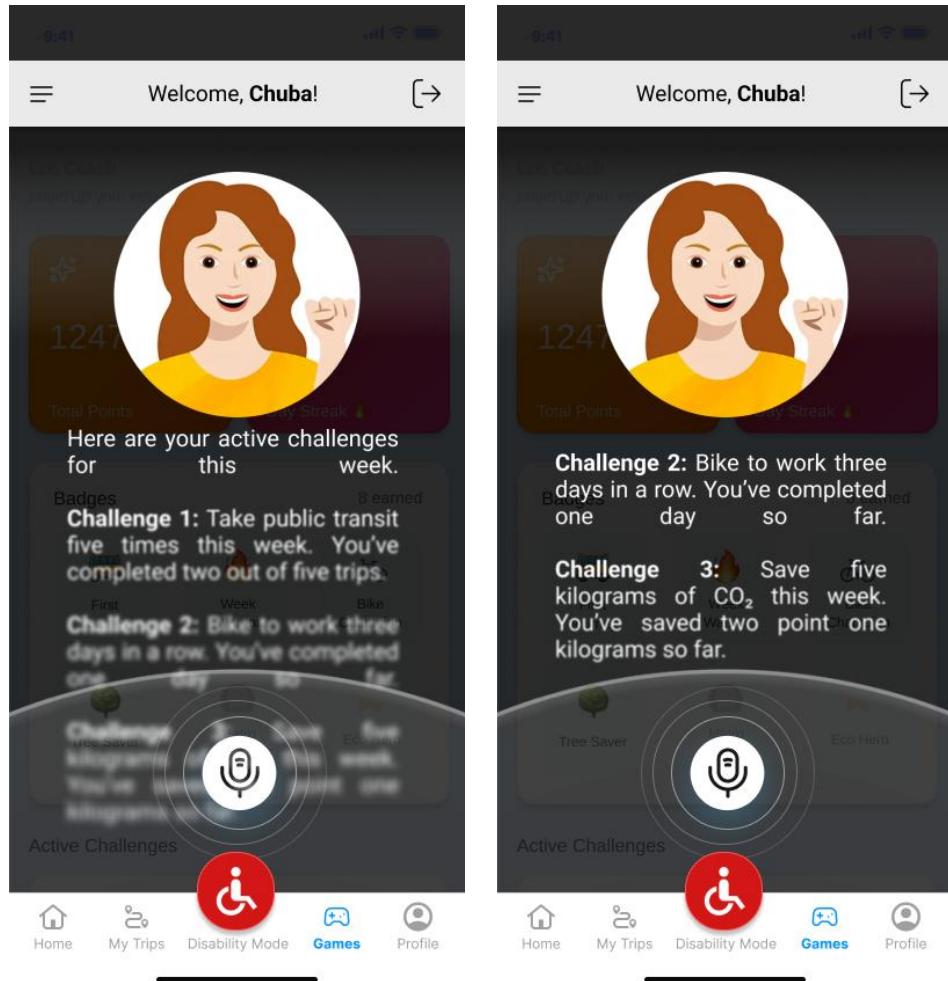
Then, the AI Agent will announce the number of streaks and how many points the user has earned and some motivational words.

5.8.3 Transit – Games - Active Challenges - User Speaks



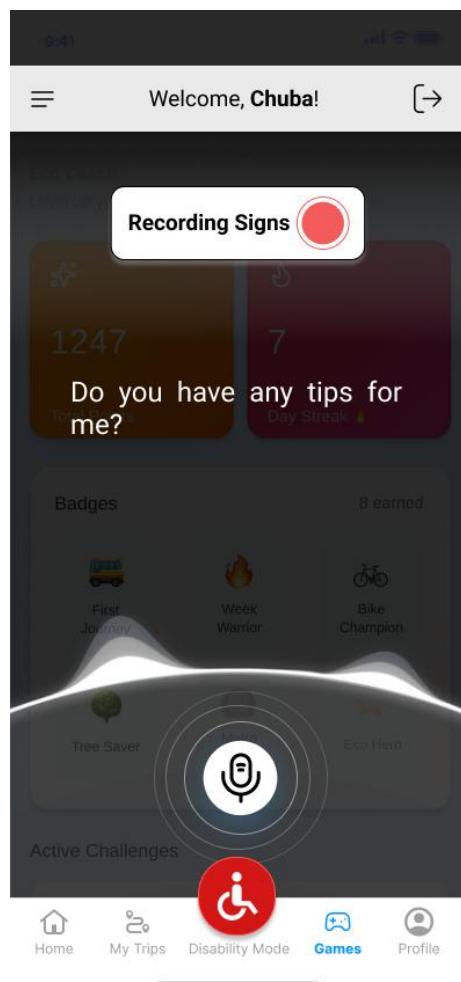
The user can also ask about their active challenges which will be treated like a game.

5.8.4 Transit – Games - Active Challenges - AI Agent Voice



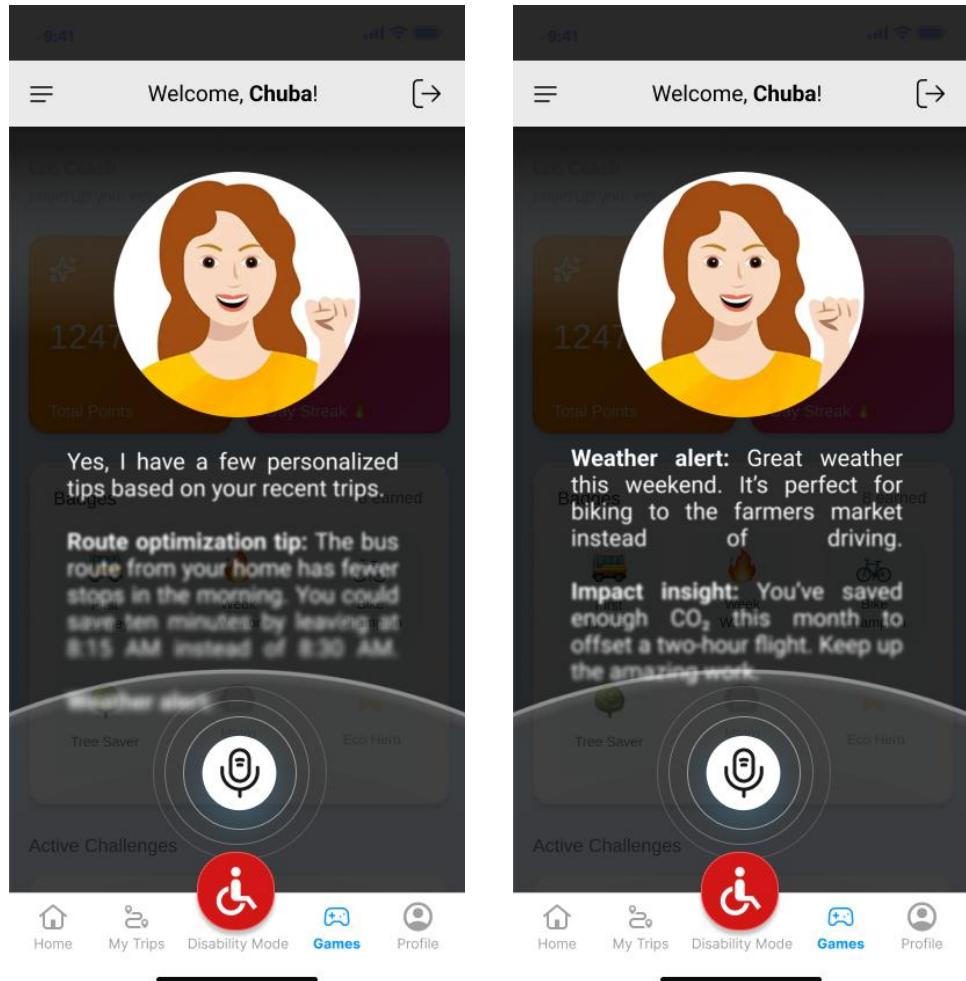
Then, the AI Agent will announce the number of active challenges that the users can do in order to get rewarded.

5.8.5 Transit – Games - Personalised Trips - User Speaks



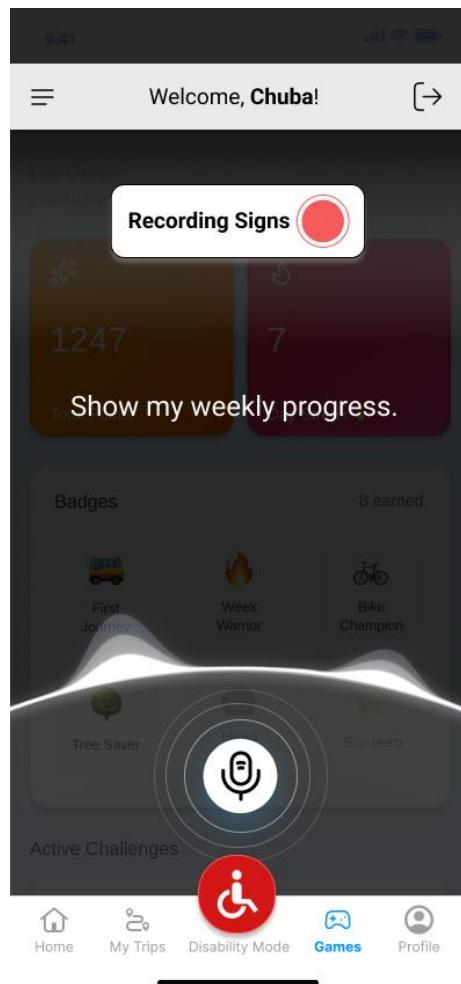
The user can also ask about any personalised tips based on recent trips.

5.8.6 Transit - Games- Personalised Trips - AI Agent Voice



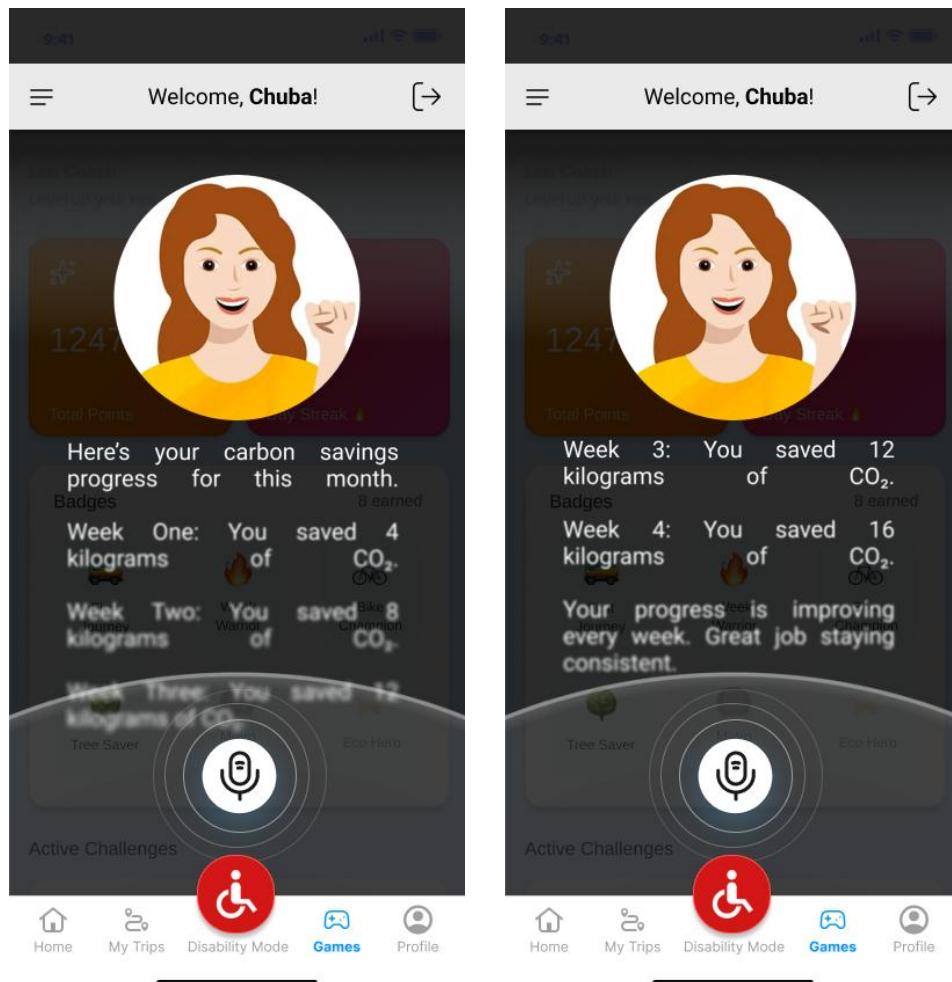
Then, the AI Agent will announce the list of personalised tips based on recent trips.

5.8.7 Transit - Games- Weekly Progress - User Speaks



The user can also ask about their weekly progress such as how much carbon they saved every week.

5.8.8 Transit - Games- Weekly Progress - AI Agent Voice



Then, the AI Agent will announce the weekly progress such as how much carbon they have saved every week.