

Home Page

1

Hamburger Menu Icon

Tapping leads to conventional sliding hamburger menu.
Screen reader reads: "Open/close Hamburger Menu".

2

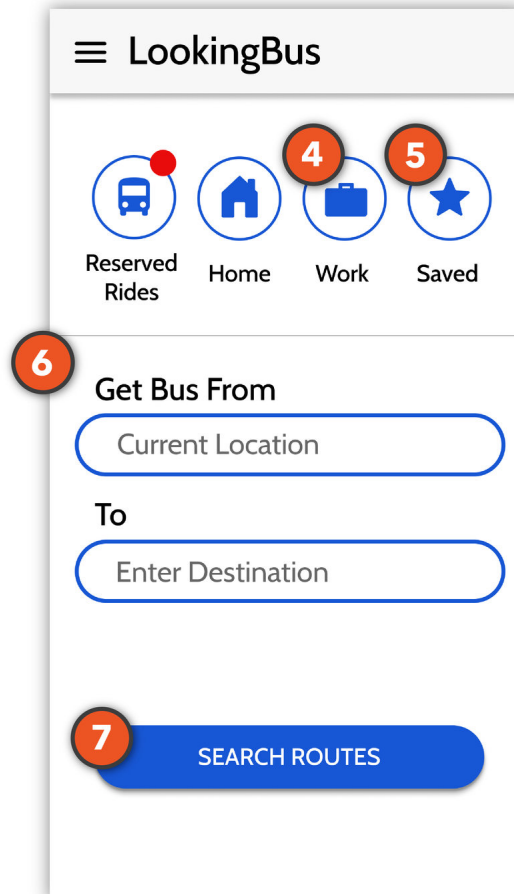
Reserved Rides

Tapping this icons leads to page titled "Reserved Rides," which has list of current and future bus rides. The Red Icon Dot appears when there is a either a Ride occurring at that moment, or when there some change to reserved ride. This button will grey out and move to the right-most position when no rides have been reserved. In such a situation, the screen reader will skip this.

3

Home Quick Action Button

Tapping this fills in Destination to "Home" in the search field below. Screen Reader reads "Set Destination to Home and Search Routes". Focus of app moves to "Search Routes" button after tapping this button. After enough initial rides, the app will prompt the user with the option to add one of the earlier ride locations as their Home location.



Home Page – Continued

4

Work Quick Action Button

Tapping this fills in Destination to "Work" in the search field below. Screen Reader reads "Set Destination to Work and Search Routes". Focus of app moves to "Search Routes" Button after tapping this button. After enough initial rides, the app will prompt the user with the option to add one of the earlier ride locations as their Work location.

5

Saved Locations Button

Tapping this leads to page that lists saved locations. Screen reader reads: "Go to Saved Locations Page".

6

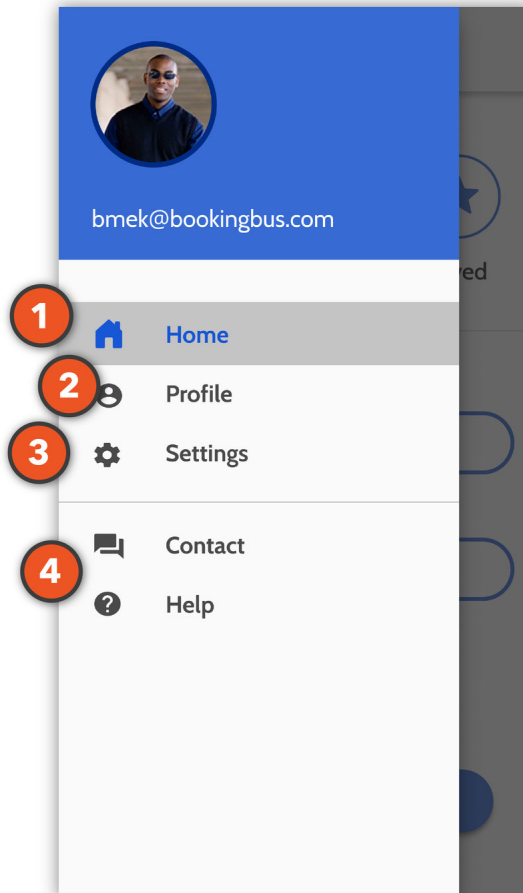
Ride Details Input

Tapping each of these text input boxes leads to a conventional keyboard input with auto-suggestions. Screen Reader reads: on "Get Bus From" Field: "Start Location is Current Location of X. Select to choose different location", and on "To" Field: "Select to enter destination."

7

Search Routes Button

Tapping leads to a page with appropriate route search results. Screen reader reads "Tap to search bus routes".



Home Page – Expanded Hamburger Menu

This conventional hamburger menu lists every page of the app. Screen Reader reads every button as “Tap to go to X page”. Whichever page the user is currently on, the screen read will prepend “Currently on X page” to the command. Screen Reader ignores top-left profile image and account name.

1

Home Page Button

Tapping leads user to the app home page

2

Profile Page Button

Tapping leads to a page where users can view and edit their profile info, like Name, Email, Locations, etc. All info pertaining to the user is found here.

3

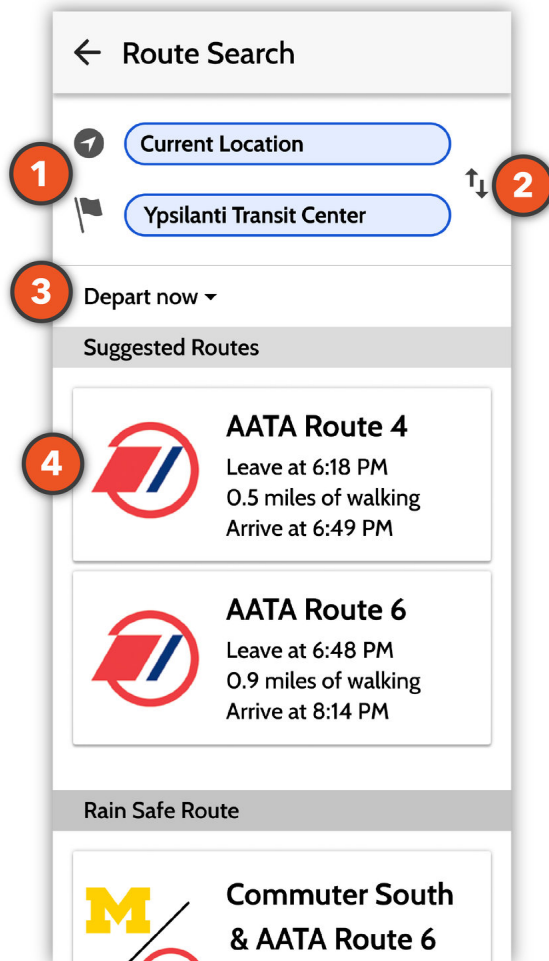
Settings Page Button

Tapping leads to a page where users can view and edit app settings, like font size, vibration feedback, etc.

4

Contact & Help Buttons

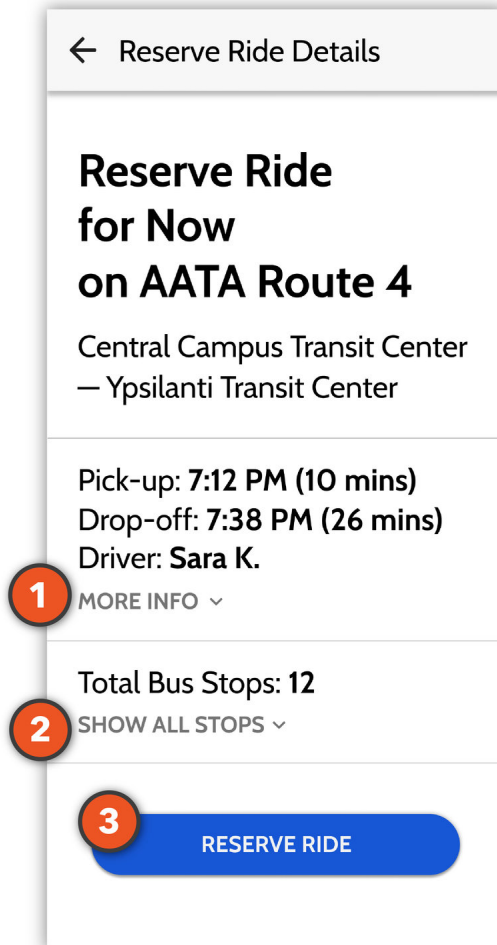
Tapping CONTACT leads to a page that lists LookingBus contact details, like email and phone. Tapping HELP leads user to a page with information on using the mobile app.



Route Search Page

The page is divided into search details and search results, which is further stratified according to different user needs, such as "Rain Safe" and "Least Walking Distance".

- 1 Search Details**
Tapping leads to standard text input pattern. Screen reader reads earlier mentioned script.
- 2 Switch Origin and Destination Button**
Tapping switches origin and destination locations. Screen Reader reads "Tap to switch origin and destination."
- 3 Edit Ride Date and Time Button**
Tapping leads to a dialog box to set time and date of the bus ride. Default time is now. Screen Reader reads "Ride Start Time set to right now. Tap to change time and date."
- 4 Search Result Card**
These cards contain all pertinent ride information, and the screen reader reads this verbatim. It ignores bus logos. Additionally, it appends said info with "Tap to view and continue with this ride." Tapping this card lead to a page with more ride details, plus the option to reserve the bus ride.



Reserve Ride Details Page

The page details all information about a particular selected ride, and it has the option to reserve a ride.

1

More Info Button

Tapping this list expands the ride information section to show even more information, such as walking distance, weather, potential traffic, etc. Screen Reader reads "Tap to expand and see more ride info".

2

Show All Stops Button

Tapping this expands the bus stop information section to show a detailed list of all bus stops along with approximate time and distance breakdowns. Screen Reader reads "Tap to expand and see more ride info".

3

Reserve Ride Button

Tapping this button sends a request to the LookingBus servers to notify the bus driver on a specified route that this BVI user will be taking this trip. This ride, when scheduled successfully, can be found again under the "Reserved Rides" button on the Home Page.



Reservation Successful

**AATA Route 4
to Ypsilanti Transit Center**

Your bus driver, Sara K, will be notified when you reach the bus stop.

Reminder set for 10 minutes before bus arrives at stop.

1 [EDIT REMINDER](#)

2

OKAY

3

[EDIT RIDE](#)

Reservation Successful Page

The page is to communicate to the user that this bus ride has been successfully reserved. All text has been carefully chosen and should be read verbatim by the screen reader.

1

Reminder Details

This informs the user that the app will remind them of the ride. The default reminder time is 5 minutes before the bus arrives at the bus stop. Tapping EDIT REMINDER will lead to a dialog box to change or add reminders.

2

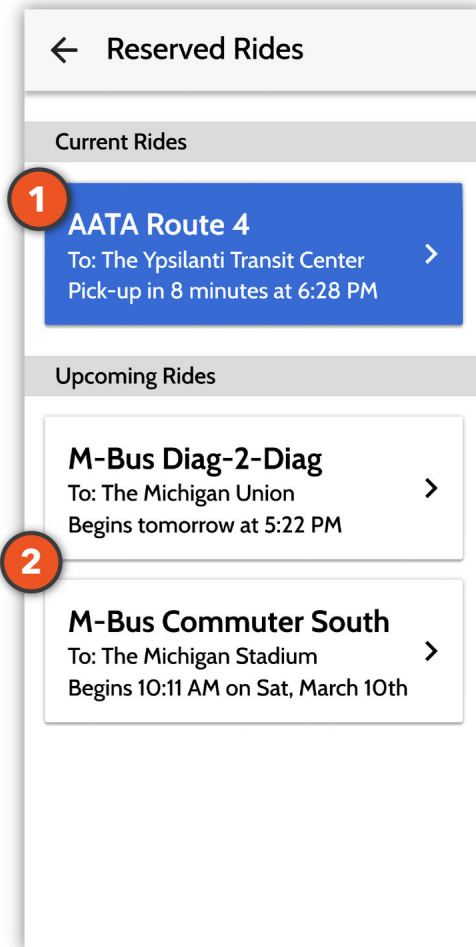
Okay Button

Tapping this brings the user back to the home screen. If the "Reserved Rides" button was greyed out prior, it will now be filled and properly visible.

3

Edit Ride Button

Tapping this button brings the user to the details page of the ride, where the user sees timely information and can perform actionable items, such as edit or cancel ride.



Reserved Rides Page

The page is divided into “Current Rides” for bus rides that are currently in progress or that are just about to begin, and “Upcoming Rides” are for rides that are supposed to take place in the future.

1

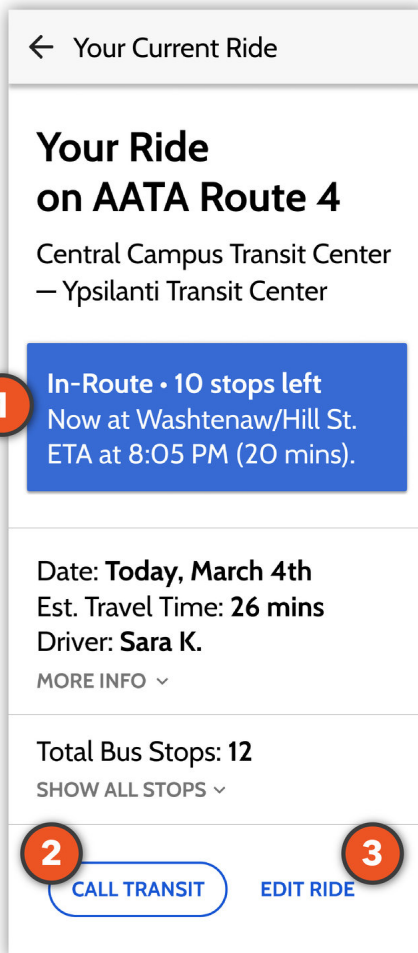
Current Ride Card

Tapping this card leads to a page with all pertinent ride and bus details. Screen Reader reads all the text in the card, given that every line of text present is filled with timely and important information. It is colored blue to highlight importance and draw the user’s attention.

2

Upcoming Ride Cards

Displayed here is a list of upcoming reserved ride. Default order shows soonest rides first. Tapping each of these cards leads to a page where the upcoming reserved ride is detailed and where all actionable items like “Call Transit”, “Edit Ride”, and “Cancel Ride” can be found.



Your Current Ride Page

1

Ride Info Card

This continually-updated card provides timely and important ride information to the user. It cannot be tapped. Screen Reader reads text verbatim. The color of the card conveys additional real-time info about the ride, and it adapts accordingly.

2

Call Transit Button

This button gives a user the ability to call a representative at the appropriate transit service. Our research indicates that BVI users appreciated the ability to contact a human, if they wanted to get more information or wanted to cancel a ride. This button launches the phone's dialer app and auto-fills with the appropriate contact number.

3

Edit Ride Button

Tapping this button allows user to change details like time and location. Screen reader reads this verbatim. The ability to cancel a ride is nested beneath this button.



Interaction Design Spec

1

AATA Route 6 Ride Confirmed.
Pick-up in 8 minutes.
Destination at 7:55 PM.

2

You're at the Bus Stop.
Pick-up in 1 min.
Get Ready to Board.

In-Route • 10 stops left
Now at Washtenaw/Hill St.
ETA at 8:05 PM (20 mins).

Destination at Next Stop.
Now at Washtenaw/Perrin St.
Get Ready to Exit.

3

Bus Ride Complete.
Reached at 8:07 PM.

Your Current Ride Page – Ride Info Card

These cards are designed to be a clean, distinct, and succinct conveyor of timely and important ride information. Since these cards are very high in the information hierarchy interpreted by a screen reader, the information in this card must be concise, relevant, updated, and conscious.

1

Grey Card

This indicates that the bus ride has been confirmed, but the user isn't at the bus stop and hasn't been pinpointed by the LookingBus IoT sensors.

2

Blue Card

This indicates that the bus ride has been confirmed and that the user has been pinpointed by the LookingBus IoT sensors at the bus stop. The card will remain blue for the total duration of the journey, given all is normal.

2

Green Card

This indicates that the bus ride has been completed and that the user has successfully reached their destination.