

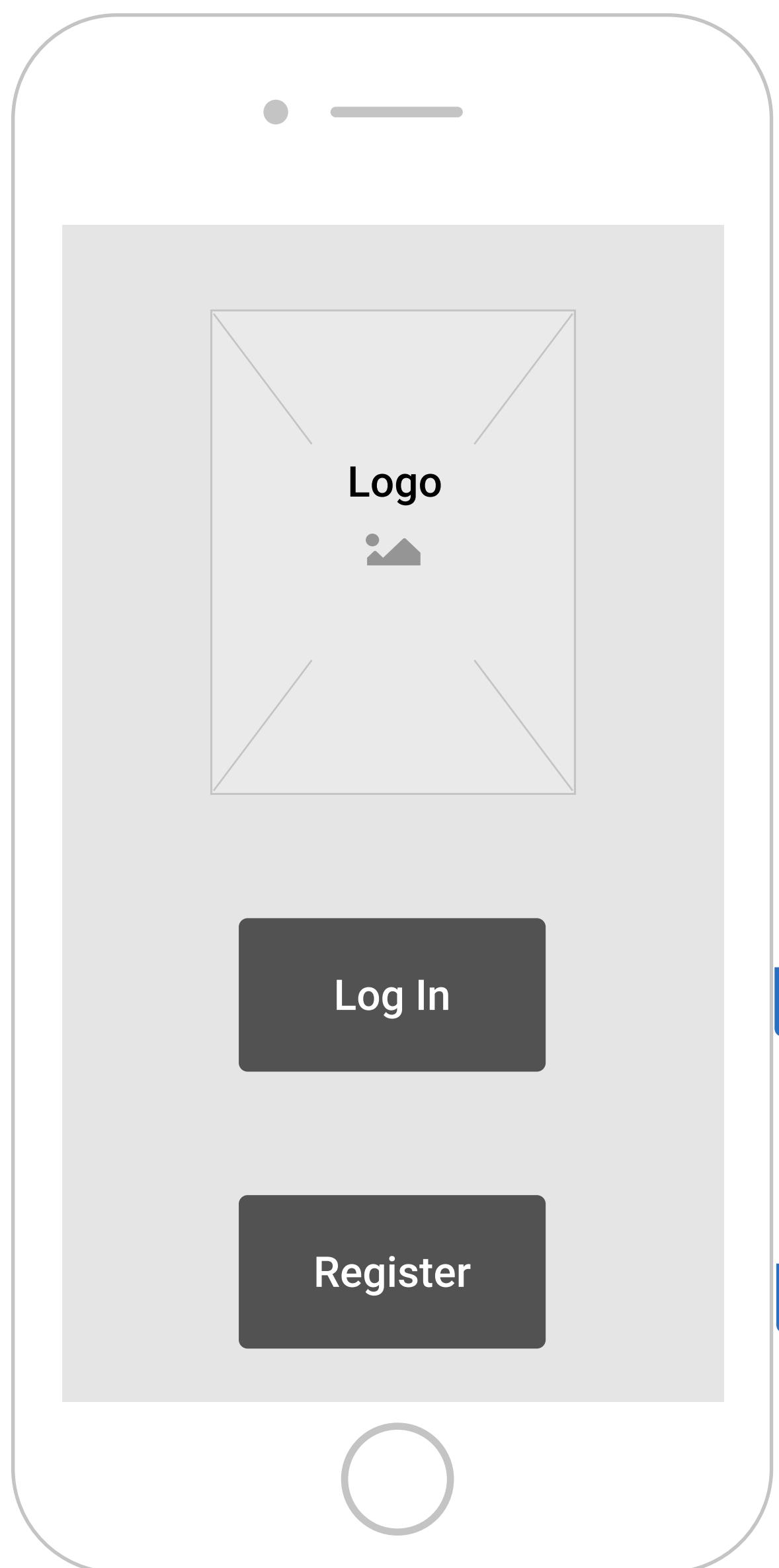
# P8: Annotated Wireframes

## Smart Bike Lock System

Team One

# Login/Register Screen

Designer: Nadir



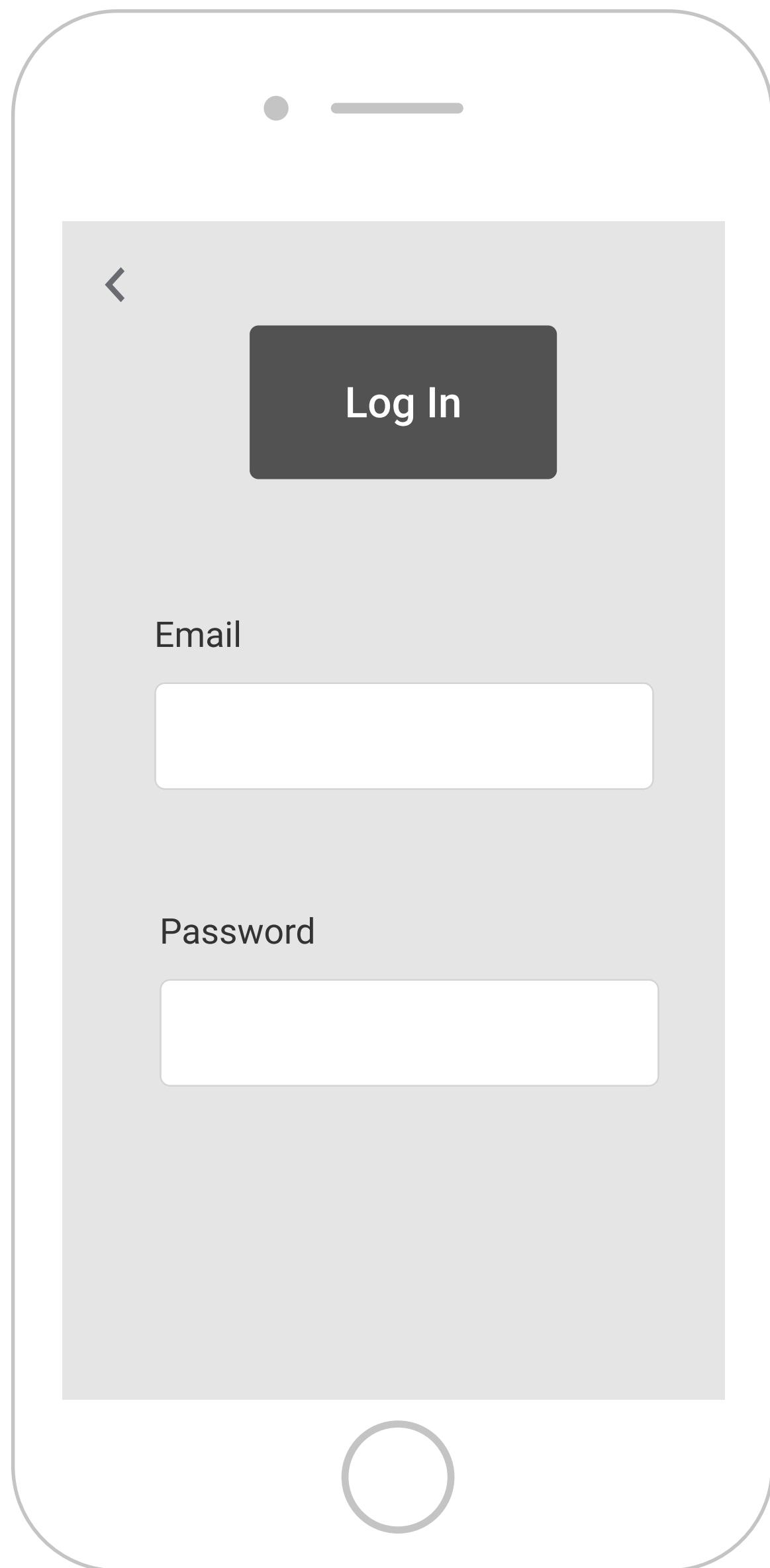
- 1 The user can log in if they are an existing user
- 2 The user can register if they are a first time user



Designer: Nadir

# Login/Register Screen

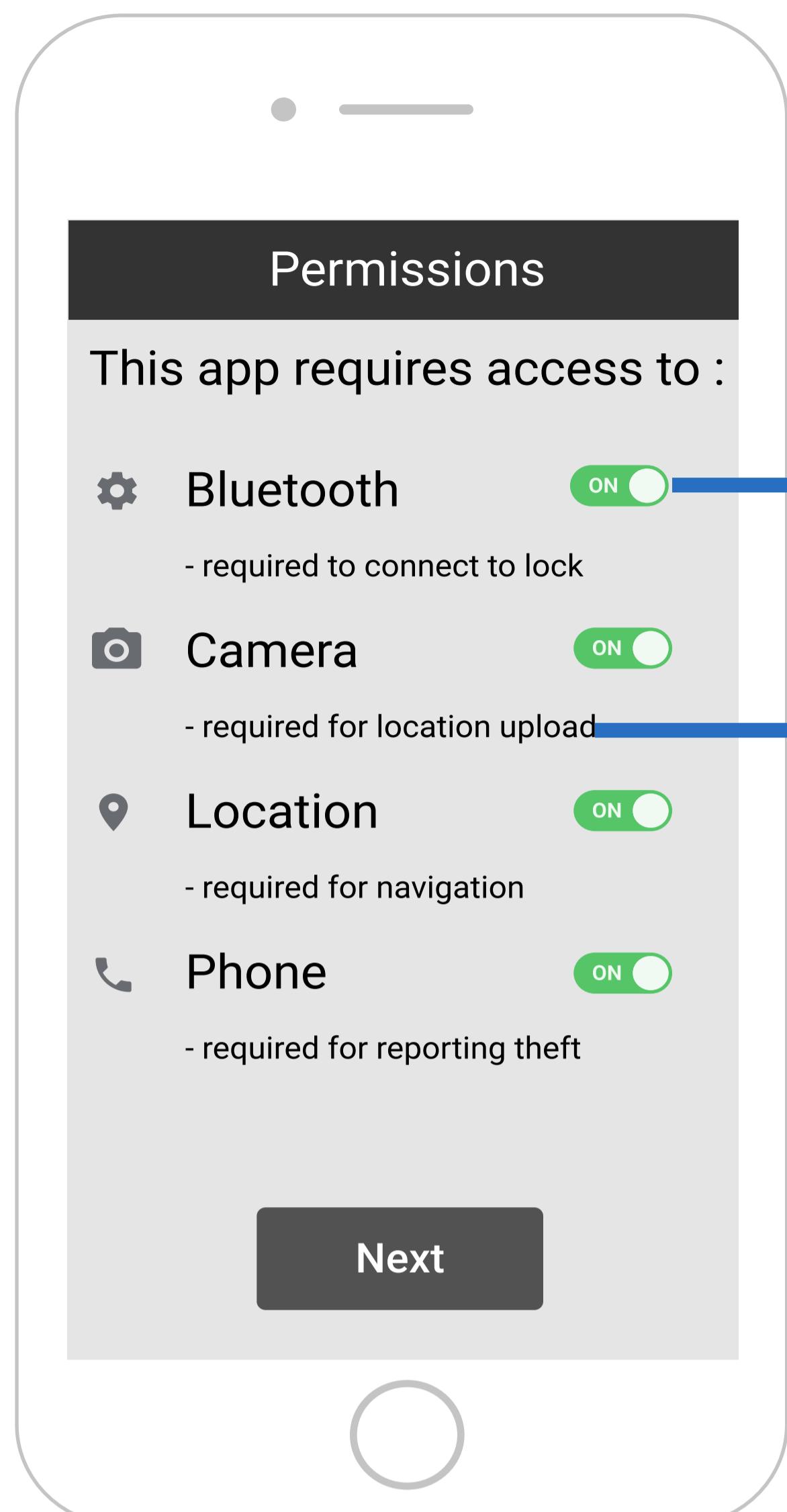
Designer: Nadir



Login screen where user can enter email address and password to sign in

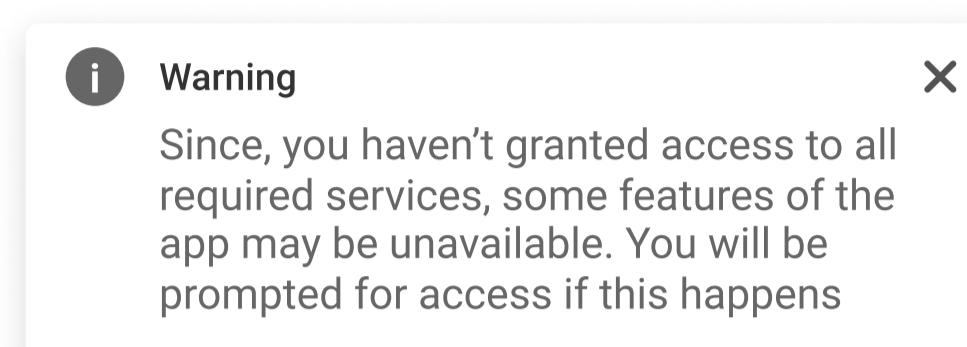
# Set Up: Permissions

Designer: Nadir



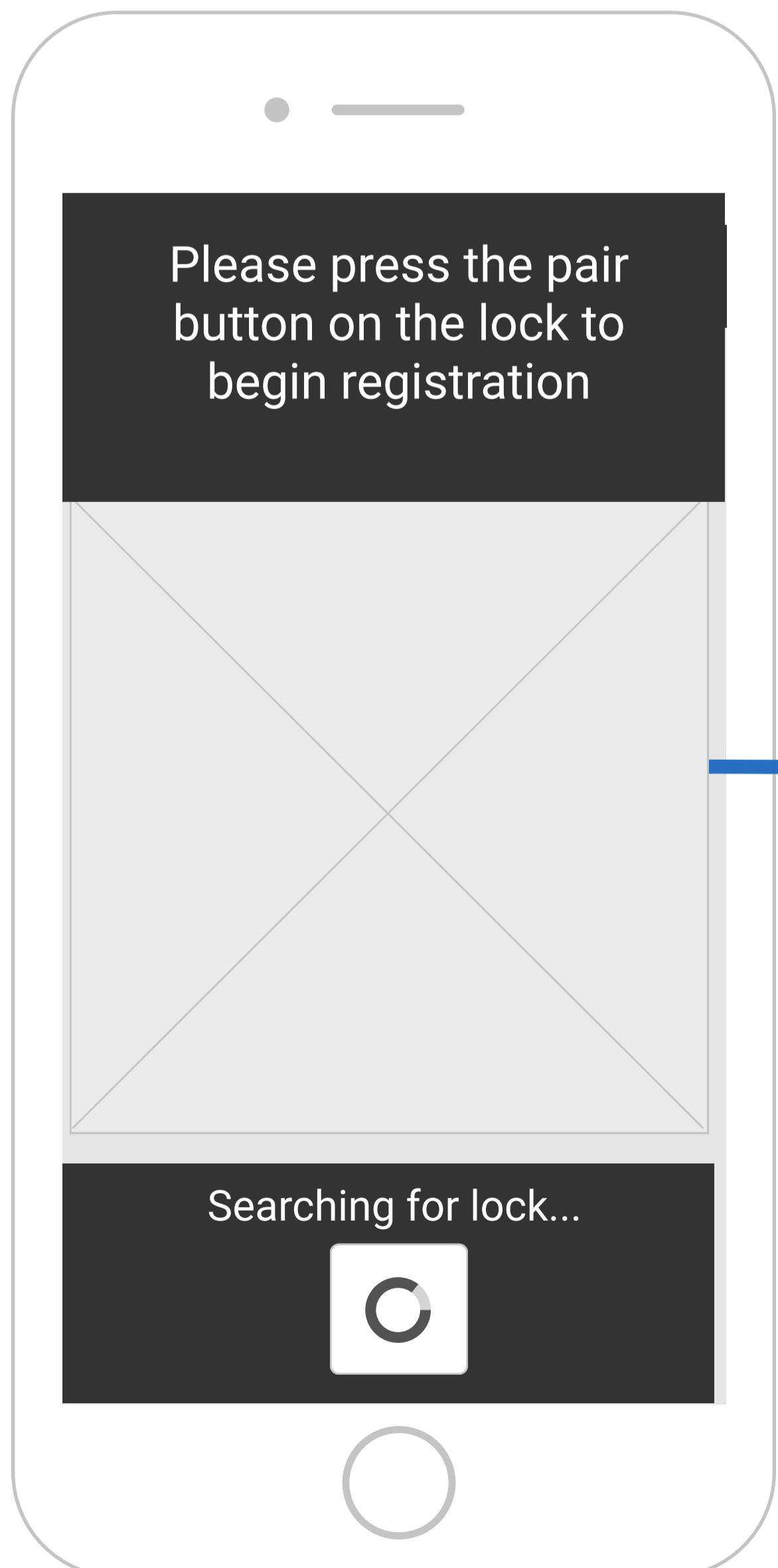
[1] The user can choose which permissions they would like to give access to, however they will be prompted with the warning below if all services are not given access

[2] The user gets a brief description of why that service is needed.



# Set Up: Lock Pairing

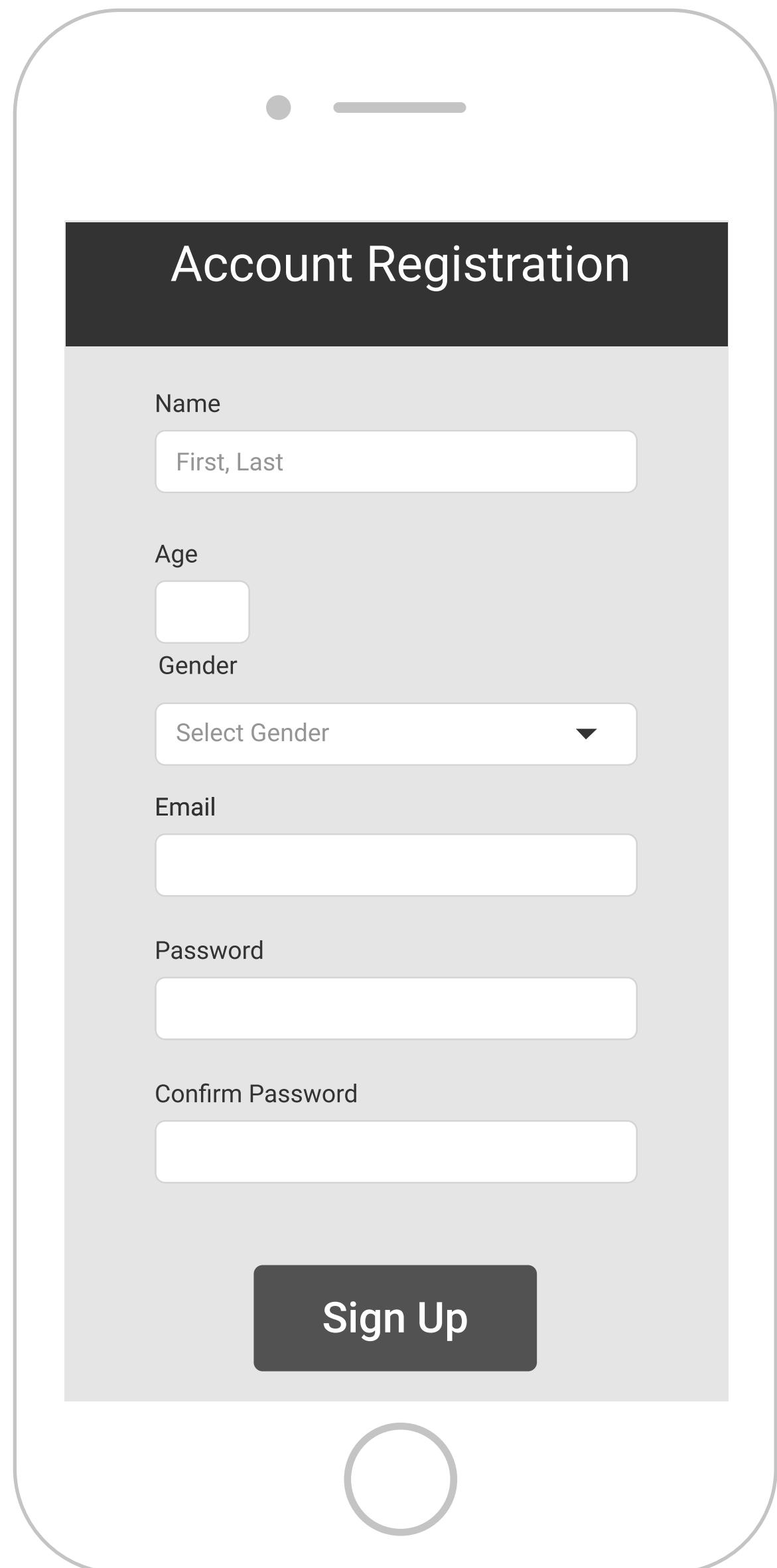
Designer: Nadir



[1] The user will be given a picture of which button to press on the physical lock to begin the pairing process

# Set Up: Account Registration

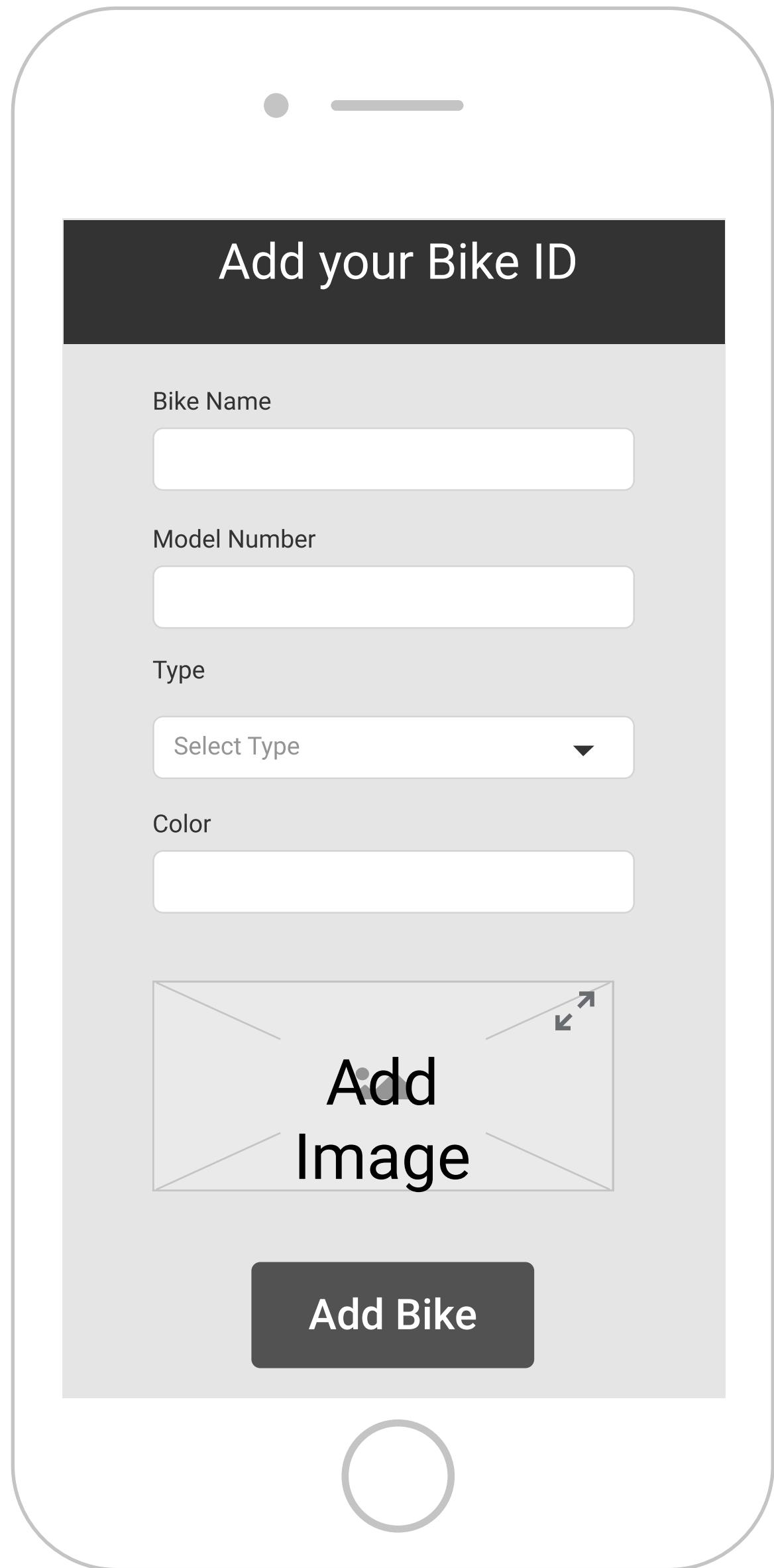
Designer: Nadir



On this page, the user can enter the required information to create their account.

# Set Up: Add Bike ID

Designer: Nadir

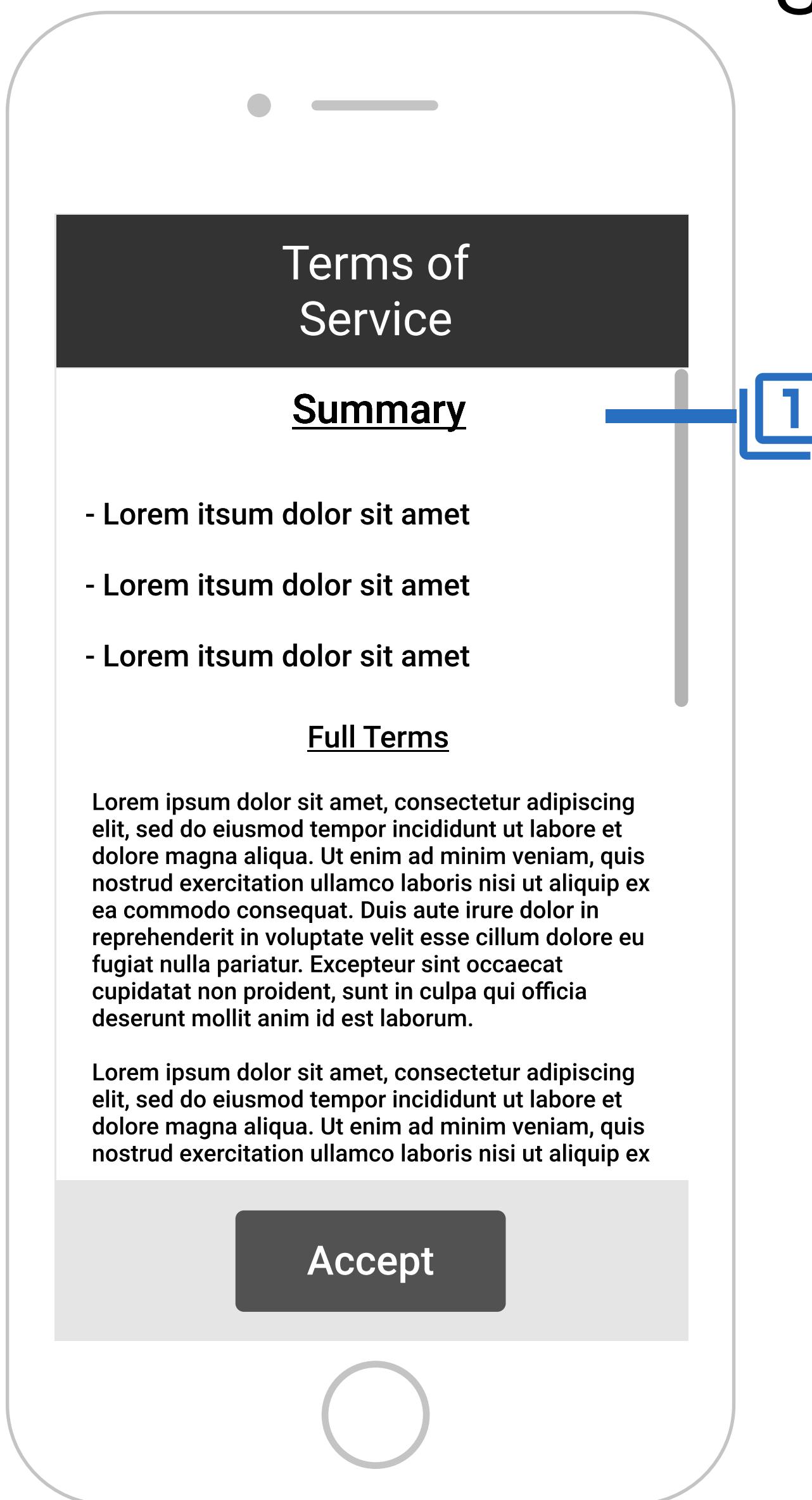


Here the user can add relevant information about their bike to be paired to lock.

This information can be used to report theft

# Set Up: Terms of Service

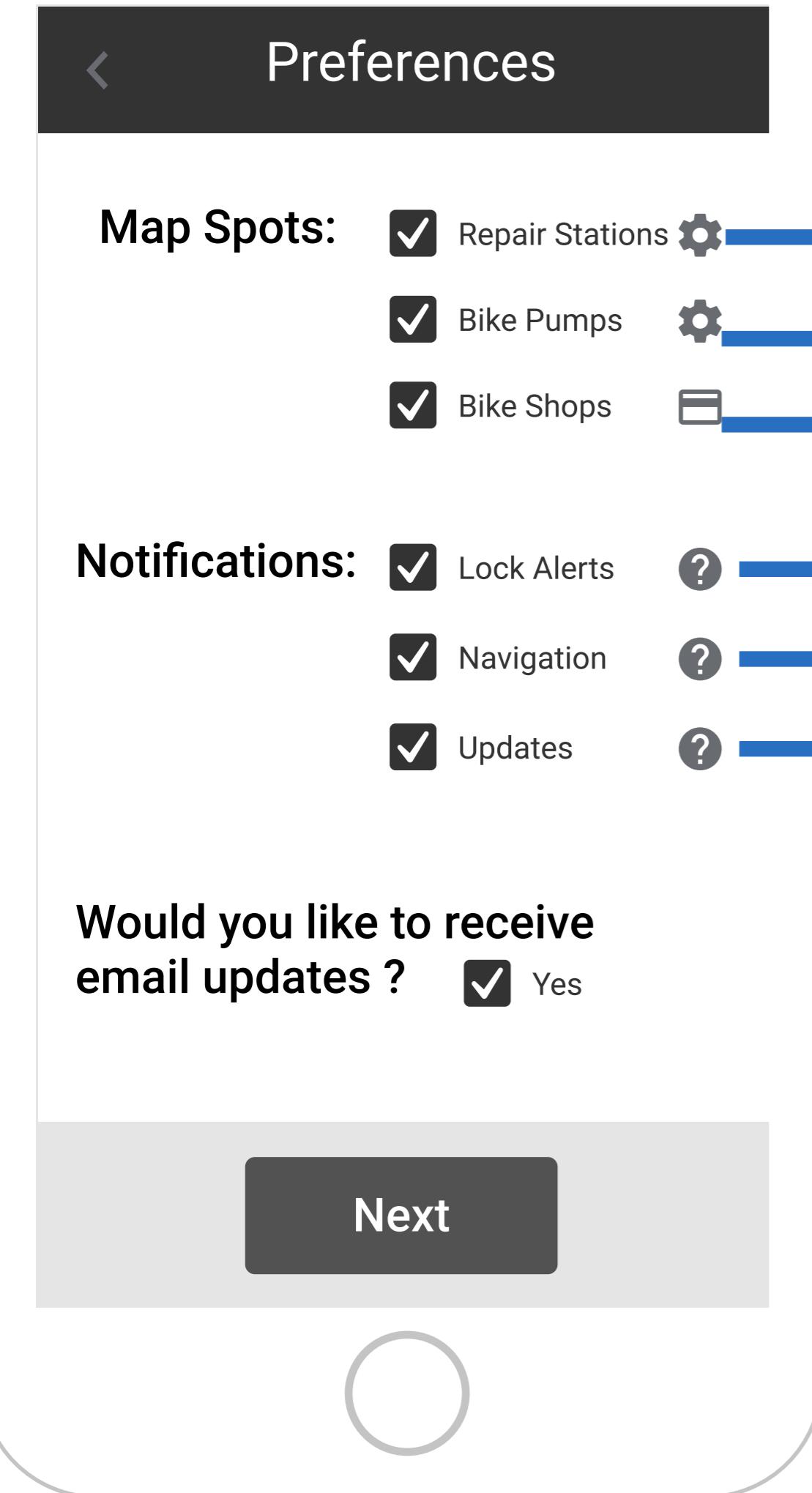
Designer: Nadir



The user gets a summary of key points to pay attention to in the Terms of Service. This is so that they do not have to skim the official document but may do so if they please.

# Set Up: Preferences

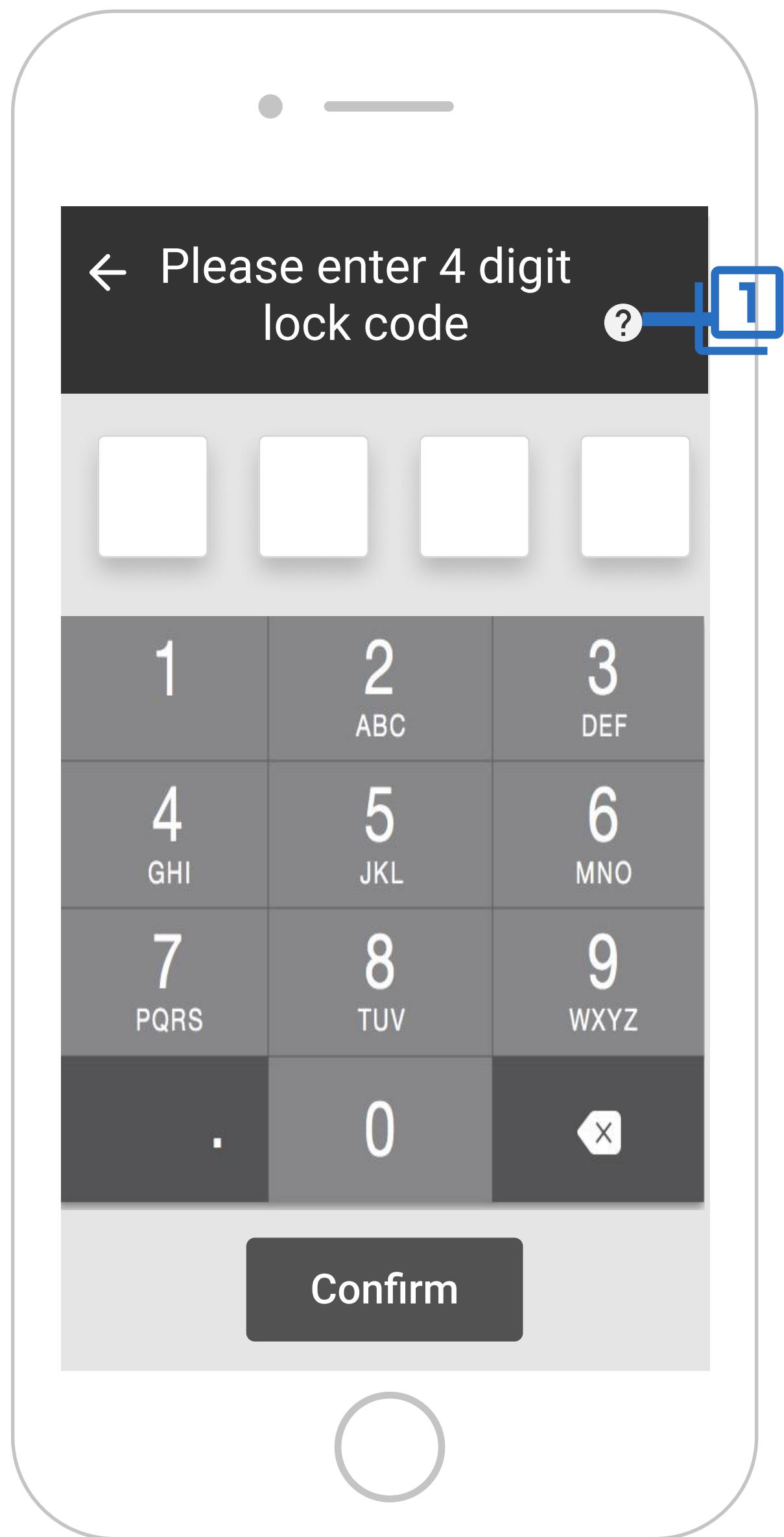
Designer: Nadir



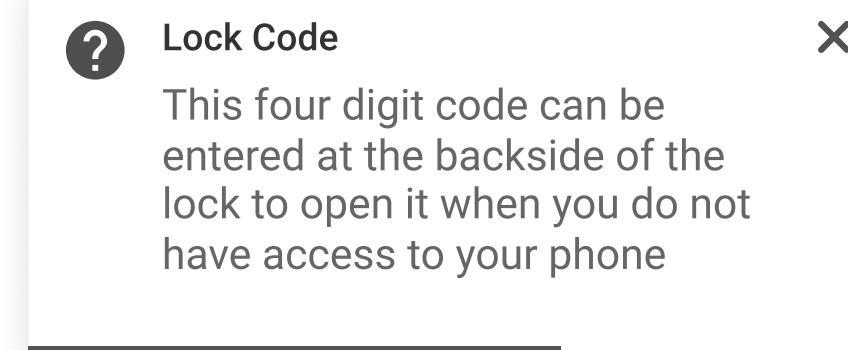
- 1 The user gets can choose whether they want to see bike repair stations on the map
- 2 The user can choose whether they want to see bike pumps on the map
- 3 The user can choose whether they want to see bike shops on the map
- 4 The user can choose to receive lock alert notifications when the lock is compromised
- 5 The user can choose to receive navigation related notifications when navigating using the app
- 6 The user can choose to receive notifications regard updates that happen to the app

# Set Up: Lock Code Entry

Designer: Nadir

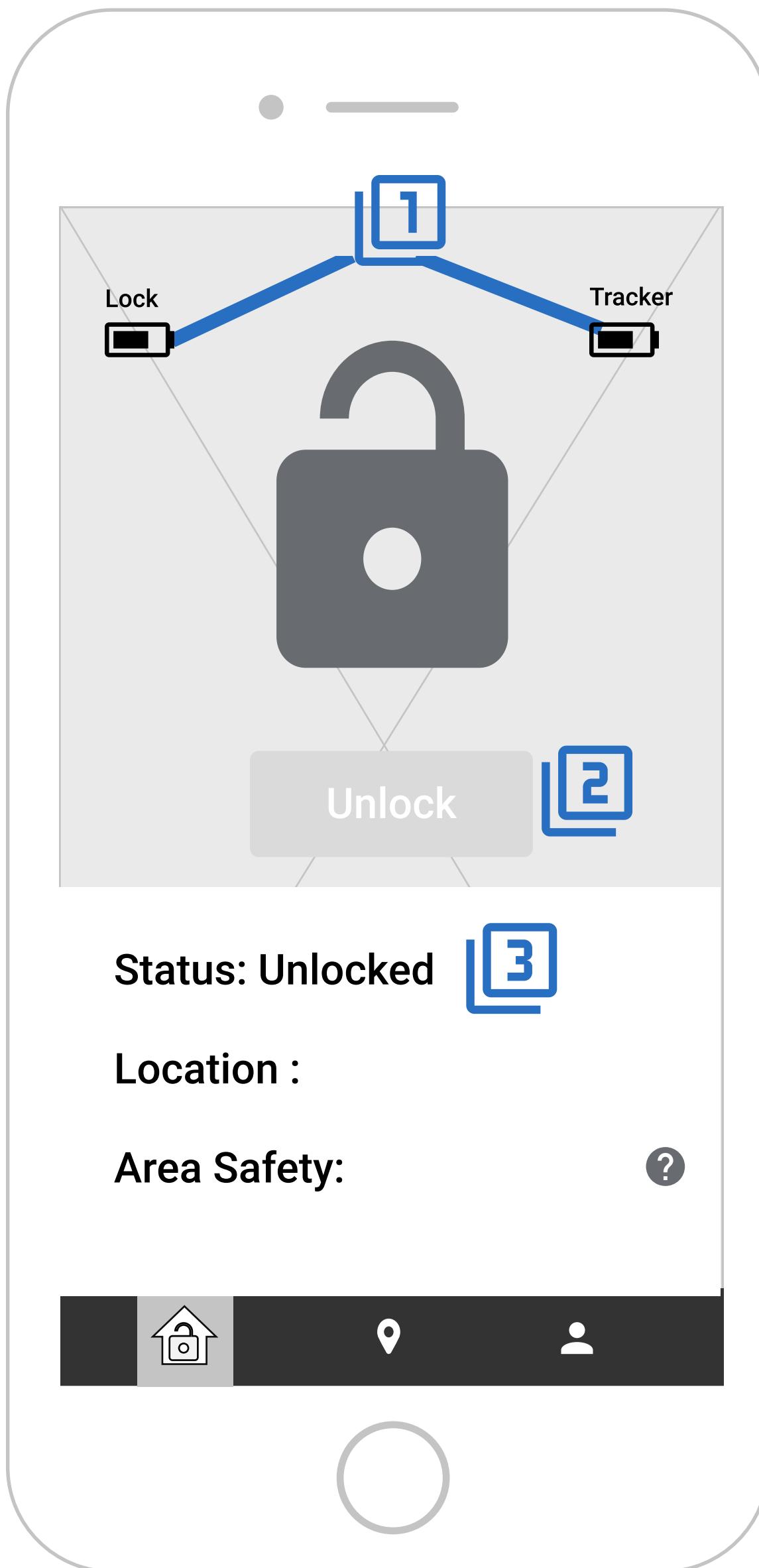


- 1 This button gives the user more information about the lock code displaying the pop up below.



# Home Screen: Lock Disabled

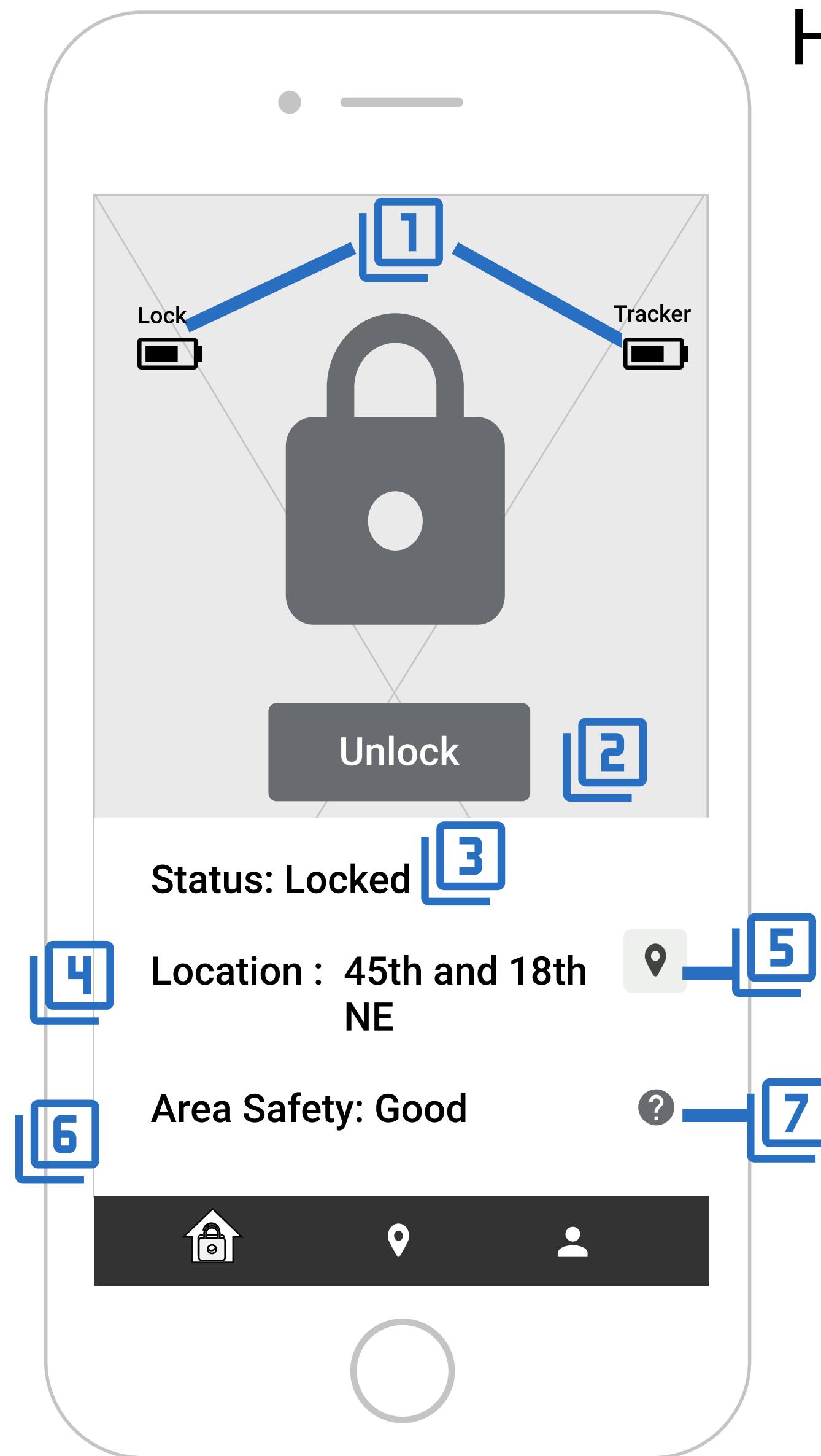
Designer: Nadir



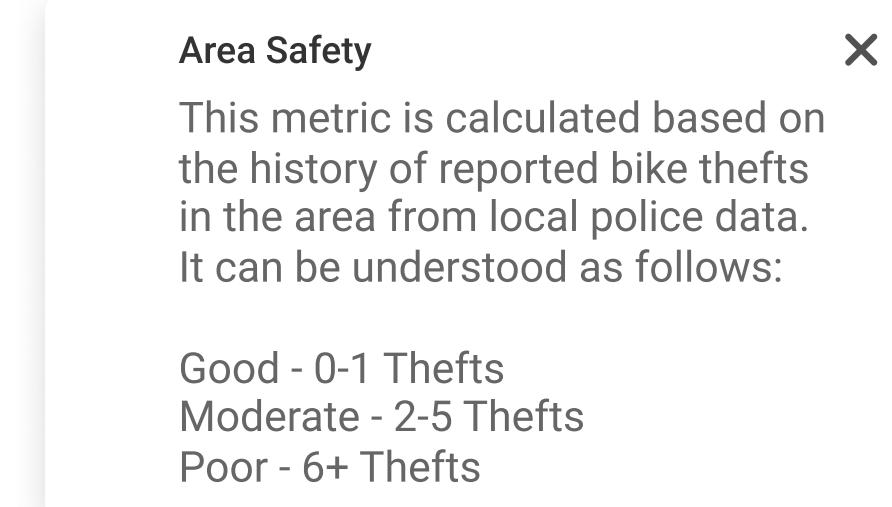
- [1] Battery indicators report the last known battery levels of the lock and GPS tracker components to inform the user
- [2] The Unlock button for the lock is disabled until the lock is activated
- [3] The status bar shows “Unlocked” when the lock is not in use

# Home Screen: Lock Enabled

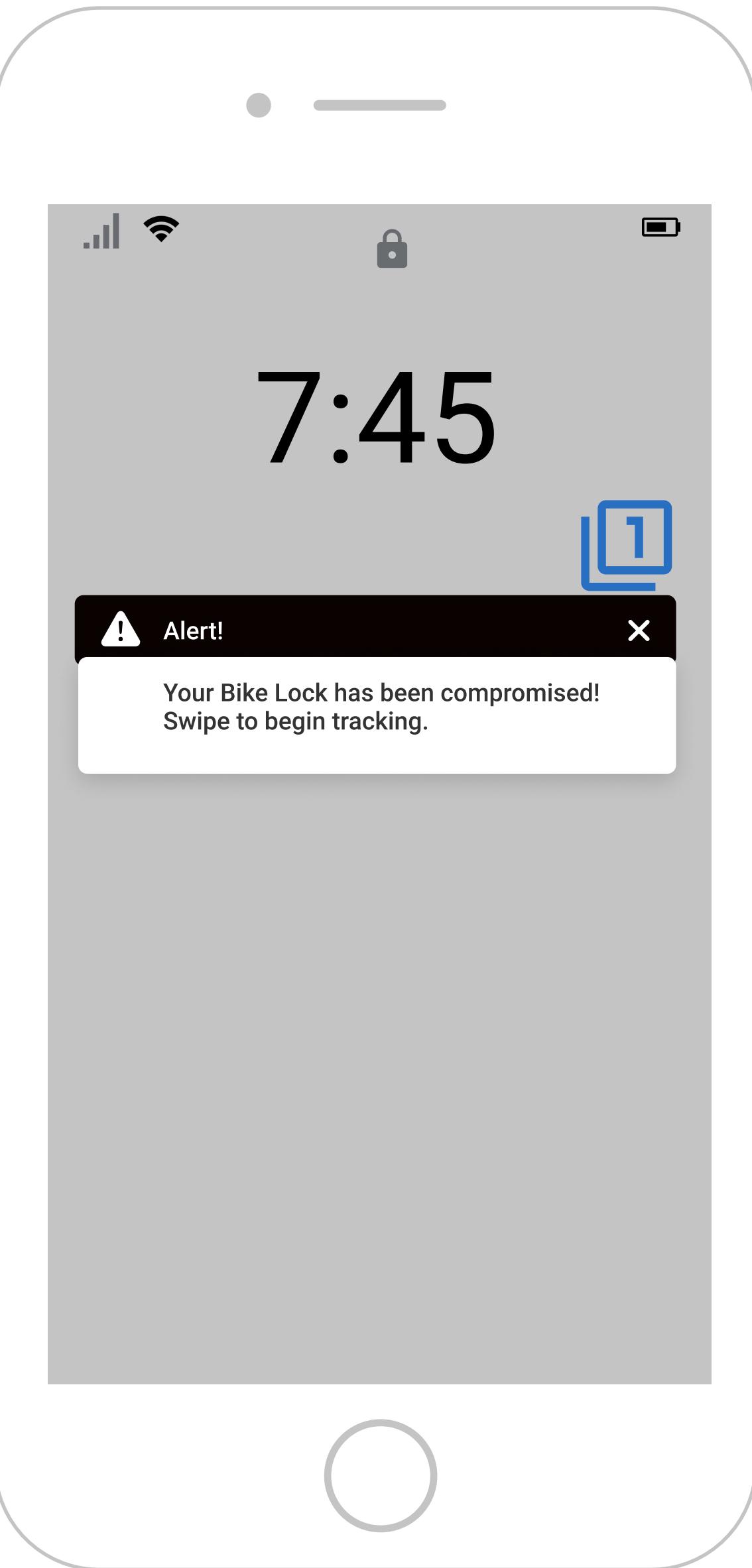
Designer: Nadir



- 1 Battery indicators report active battery levels of the lock and GPS tracker components to inform the user
- 2 The Unlock button for the lock is enabled for the user to remotely open the lock when they want to use their bike
- 3 The status bar shows “locked” when the lock is active
- 4 The status bar also reports the location of the bike
- 5 This button will take the user to their bike’s location on the map
- 6 The status bar also reports the safety of the surrounding area
- 7 This button will trigger the following pop-up explaining the area safety feature to the user

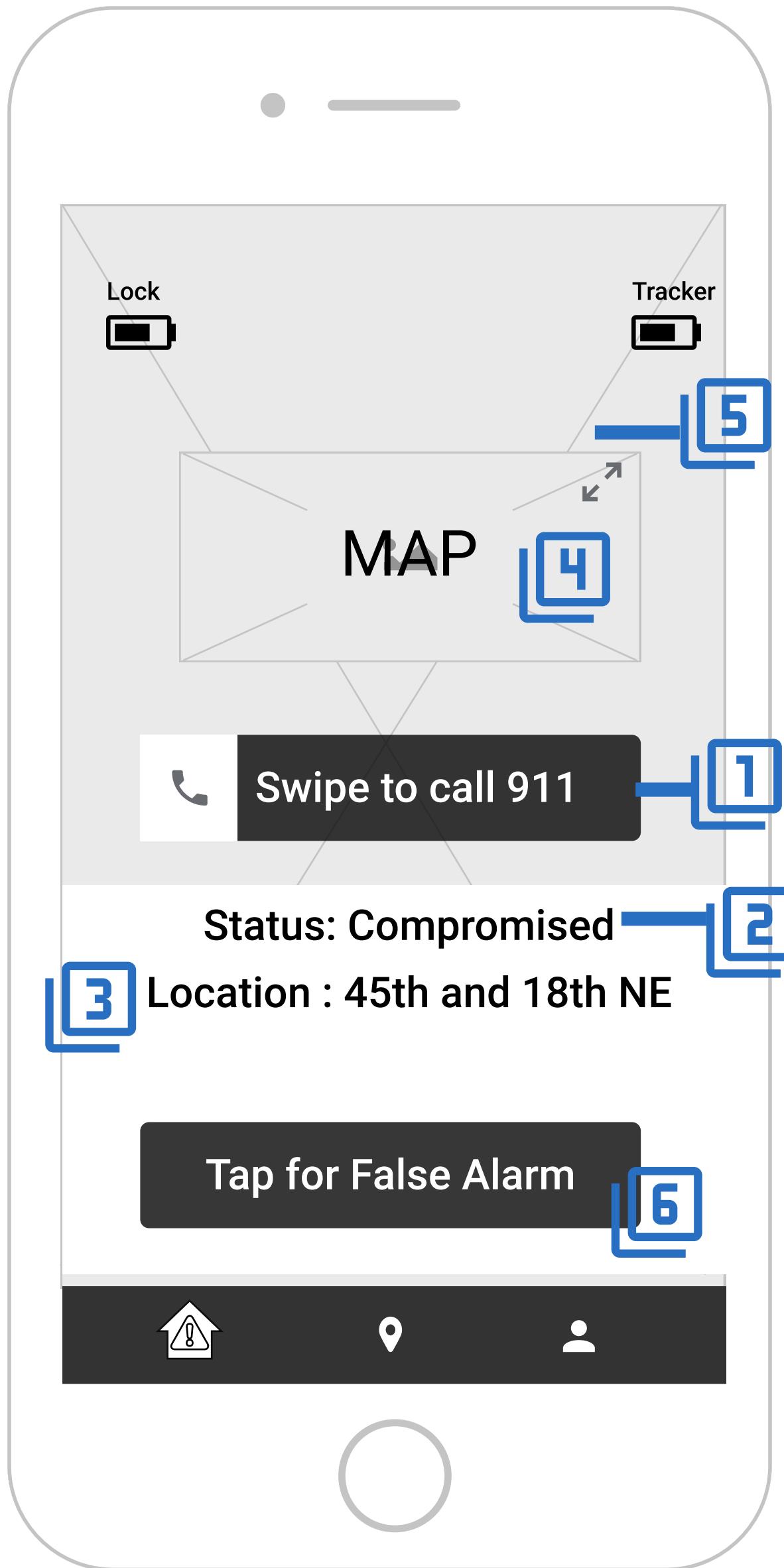


# Lock Screen: Lock Compromised



The user receives an swipable notification alerting them to their compromised lock

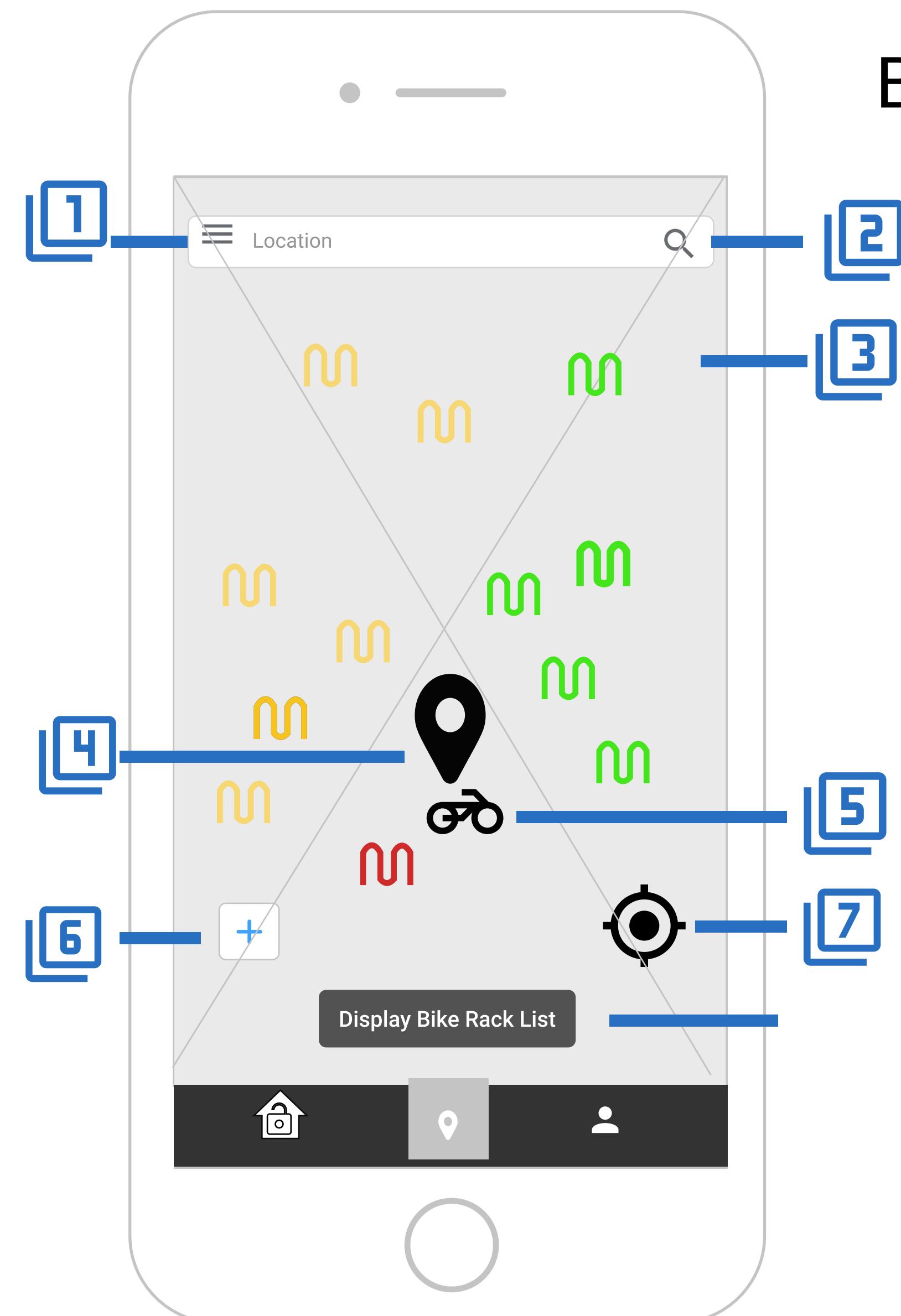
# Home Screen: Lock Compromised



- 1** The user can swipe to call emergency services to report the theft
- 2** The Lock Status will show “compromised”
- 3** The location will give the bike's active location to the user to report
- 4** The mini map will let the user track their bike in real time
- 5** This button will switch to the map screen, expanding the map
- 6** This button will override the compromised status in case of a false alarm

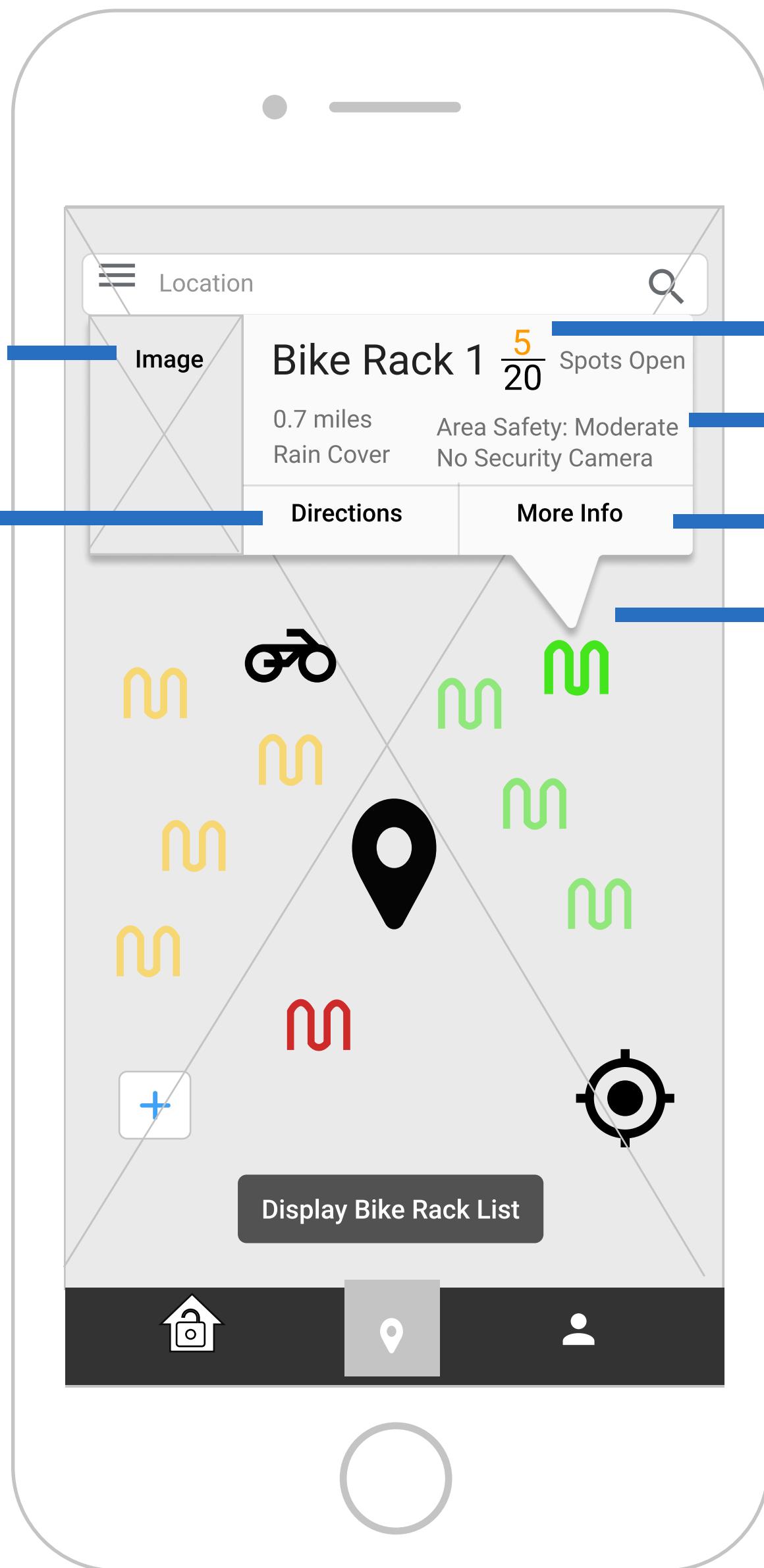
# Bike Rack Map

Designer: Carl



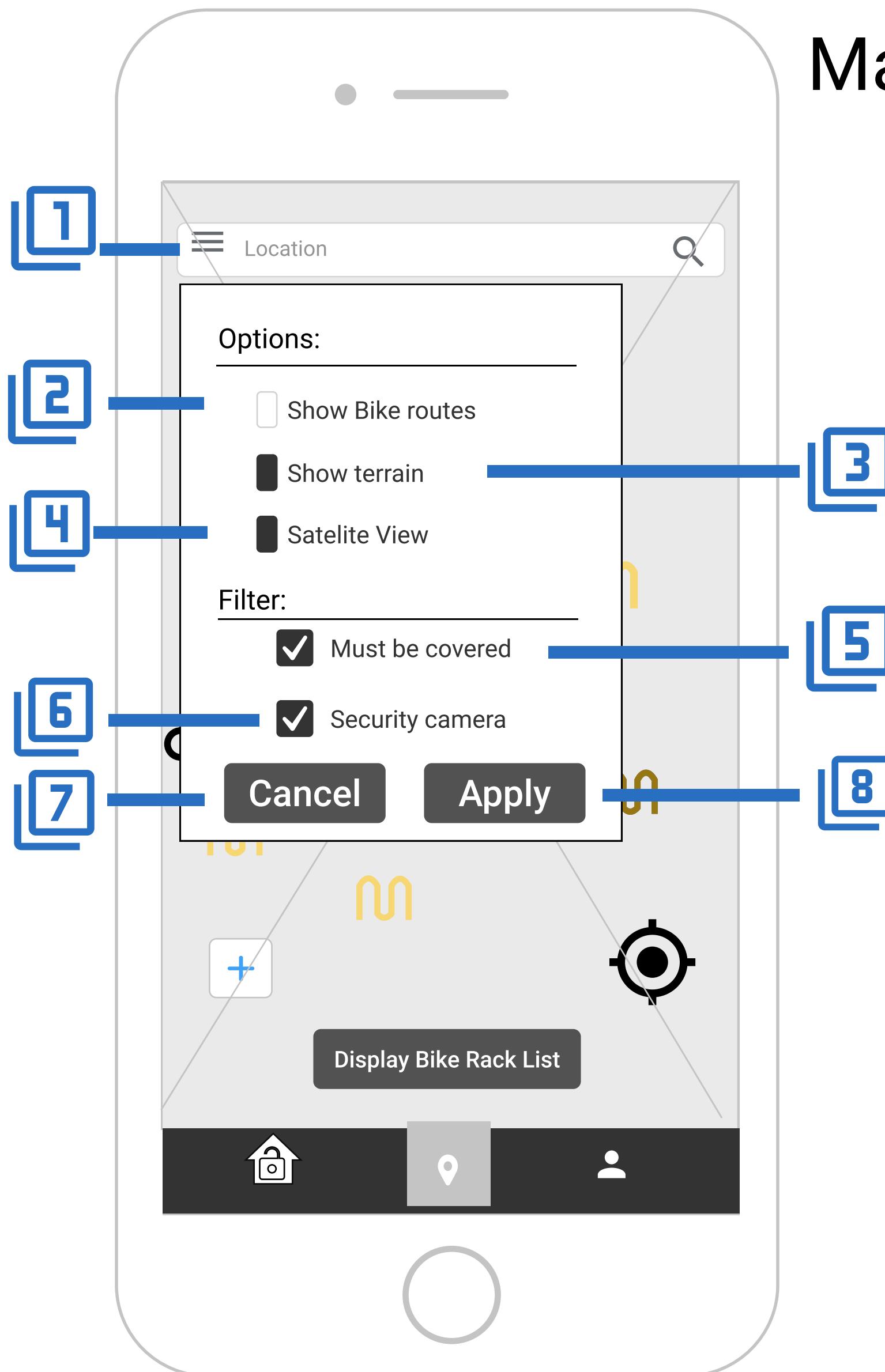
- 1 Options menu for map and stops shown on map
- 2 Search lets users enter a name of a Bike Rack or a locations that they want to see stops next to
- 3 Bike Lock locations on map, they can be tapped on to see more information about the rack. Their color represents their area safety rating.
- 4 Shows location from GPS on users phone so that they can see distance to stops
- 5 Displays users bike location if equipped with a compatible GPS tracker. Can help users find their bike if it is lost or stolen
- 6 Opens dialog to add a missing stop to the map
- 7 Centers the map on the users GPS location
- 8 Opens up a list of all stops around the users so the user can compare them by features instead of location

# Pop up Bike Rack Information

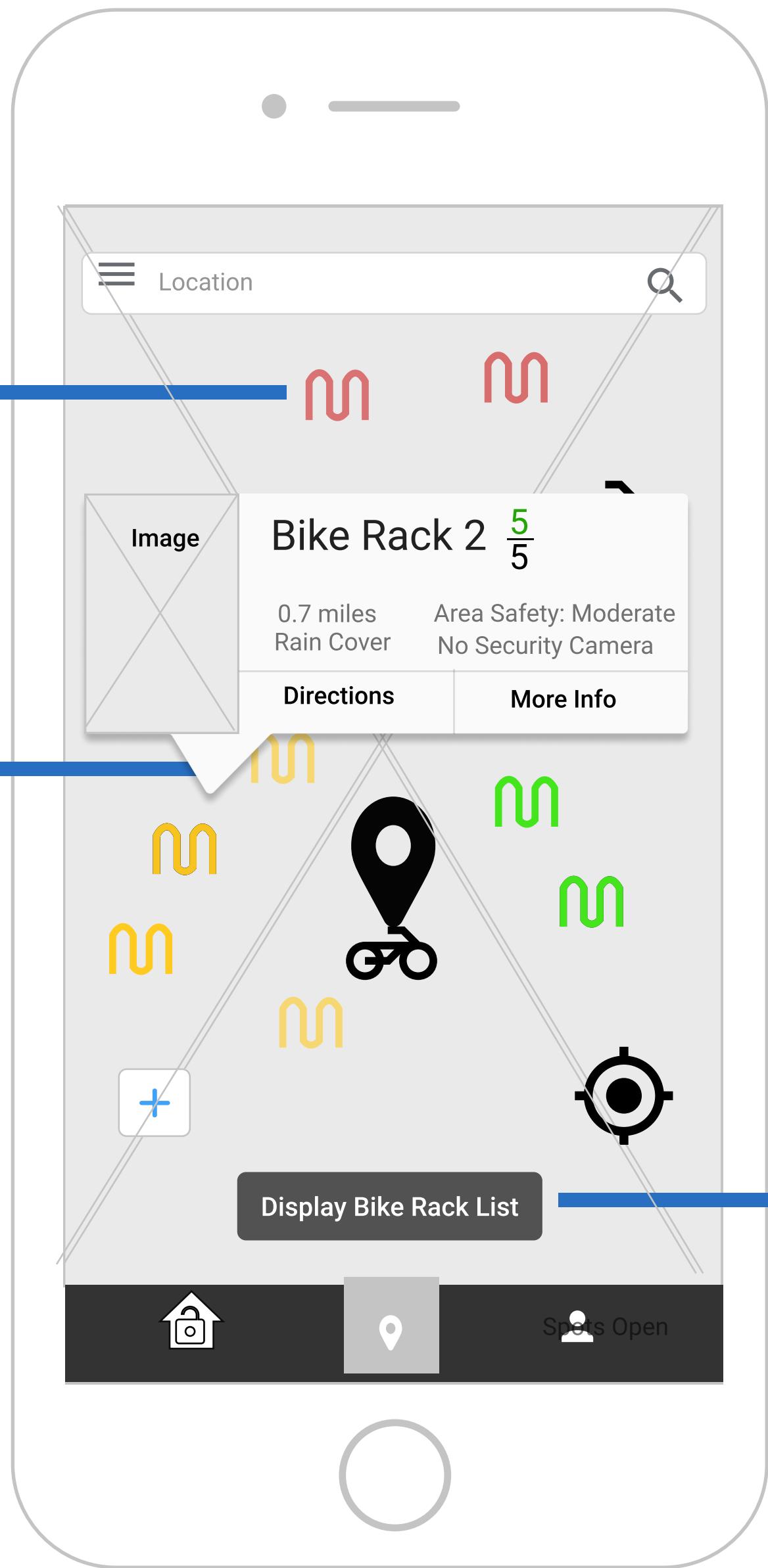


- [1] Displays number of open and total spots at the selected bike rack. Color is used to quickly tell how full the stop is
- [2] Image of bike rack to let users know more about the location and help them find it.
- [3] Bike lock features are highlighted to let users choose which bike lock they want to use
- [4] Opens up directions to location in the app
- [5] Lets users see further details about the rack
- [6] Arrow shows which stop is selected

# Map Options Drop Down Menu



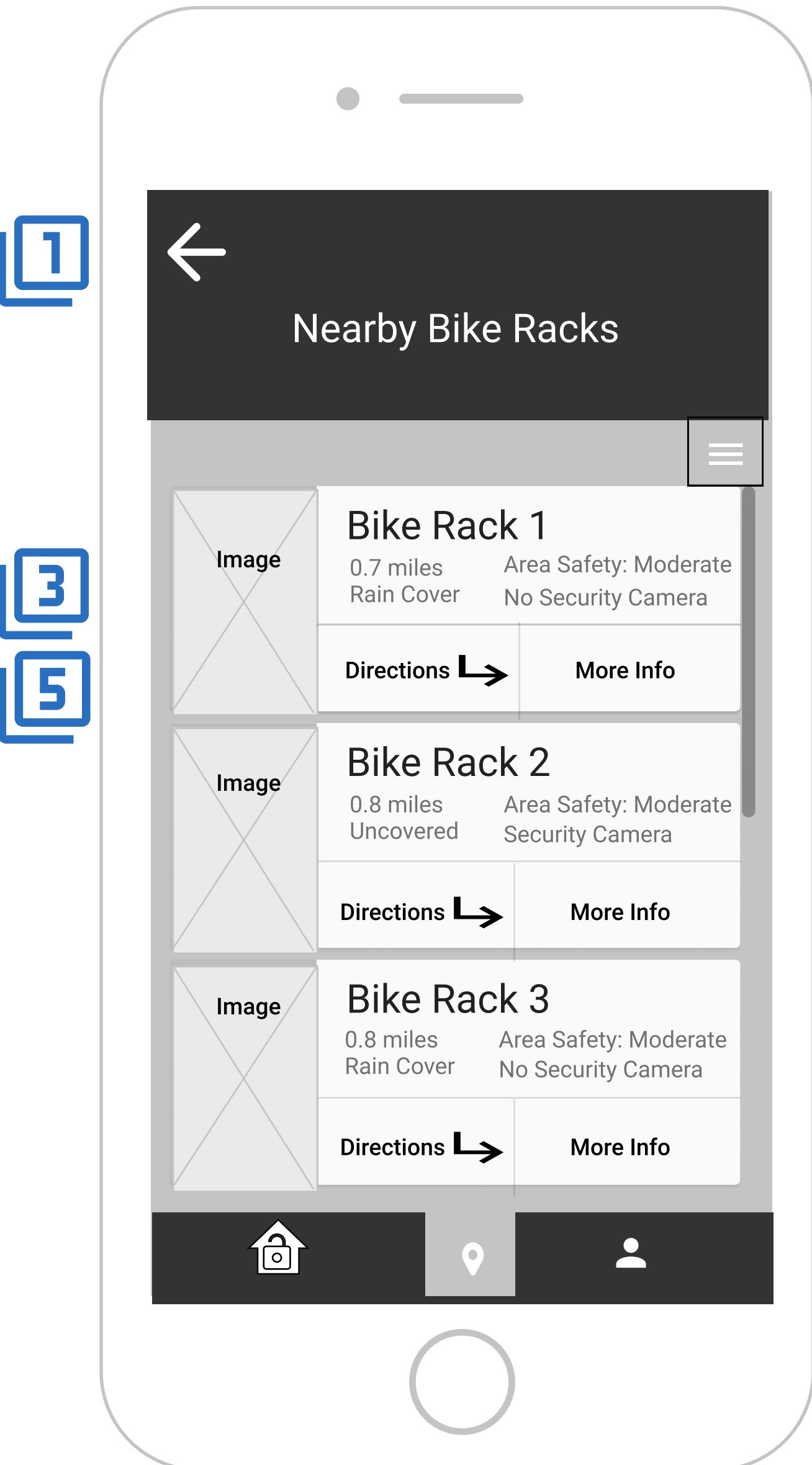
- 1** Clicking this button opens up this menu, tapping on the map outside the menu cancels the changes
- 2** Toggles an overlay on the map that outlines roads and trails that accomidate biking
- 3** Shows elevation and forest areas on map. Lets users know if the stop is up a hill from them.
- 4** Toggles displaying a satelite map instead of a traditional road map, usefull for offroading.
- 5** Greys out all racks on the map that don't have a rain cover to shield bikes from rain or sun, incase weather requires users to use one with a cover.
- 6** Greys out all bike racks without a working security camera so users can find more secure sites.
- 7** Closes the menu, and removes users changes
- 8** Applies changes made above to the map and closes the menu.



# Bike Rack Map after Filters

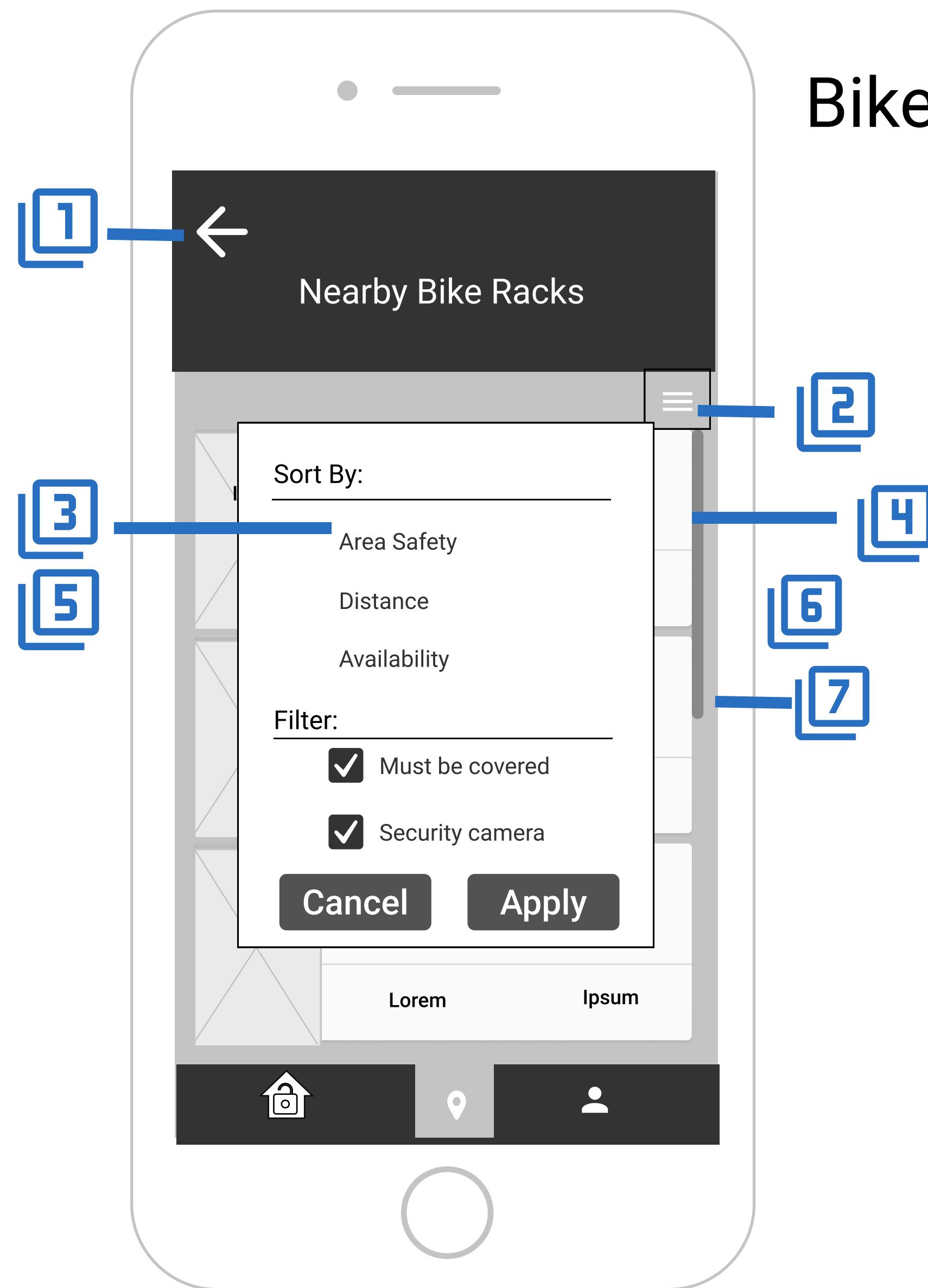
- 1 Racks that don't pass through filter are greyed out, but still allow user to click on them to see if they want to compromise
- 2 Arrow displaying stop moves to other side while keeping the popup centered on screen
- 3 Opening up bike rack list will apply the filters active on map to the list

# Bike Rack List



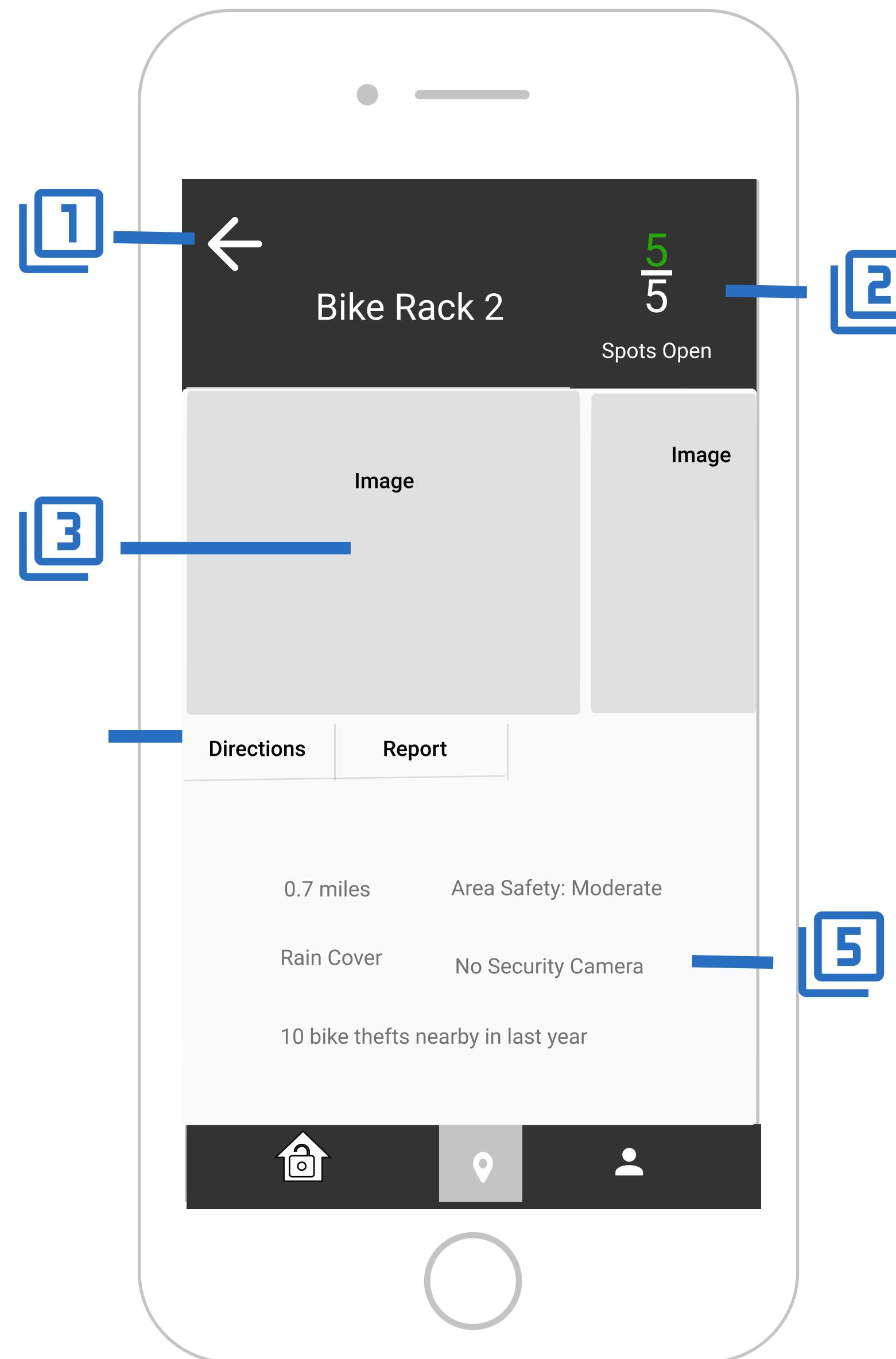
- 1 Takes the users back to the map of bike racks if they want to get a better view
- 2 Opens up drop down menu to filter stops
- 3 Shows an Image of the bike rack to help user decide if they want to lock up here
- 4 Bike lock details to help users choose the rack they will use
- 5 Open up directions to stop in the app
- 6 Lets users see further details about the rack
- 7 Able to keep scrolling to see more stops

# Bike Rack List Drop Down Filter



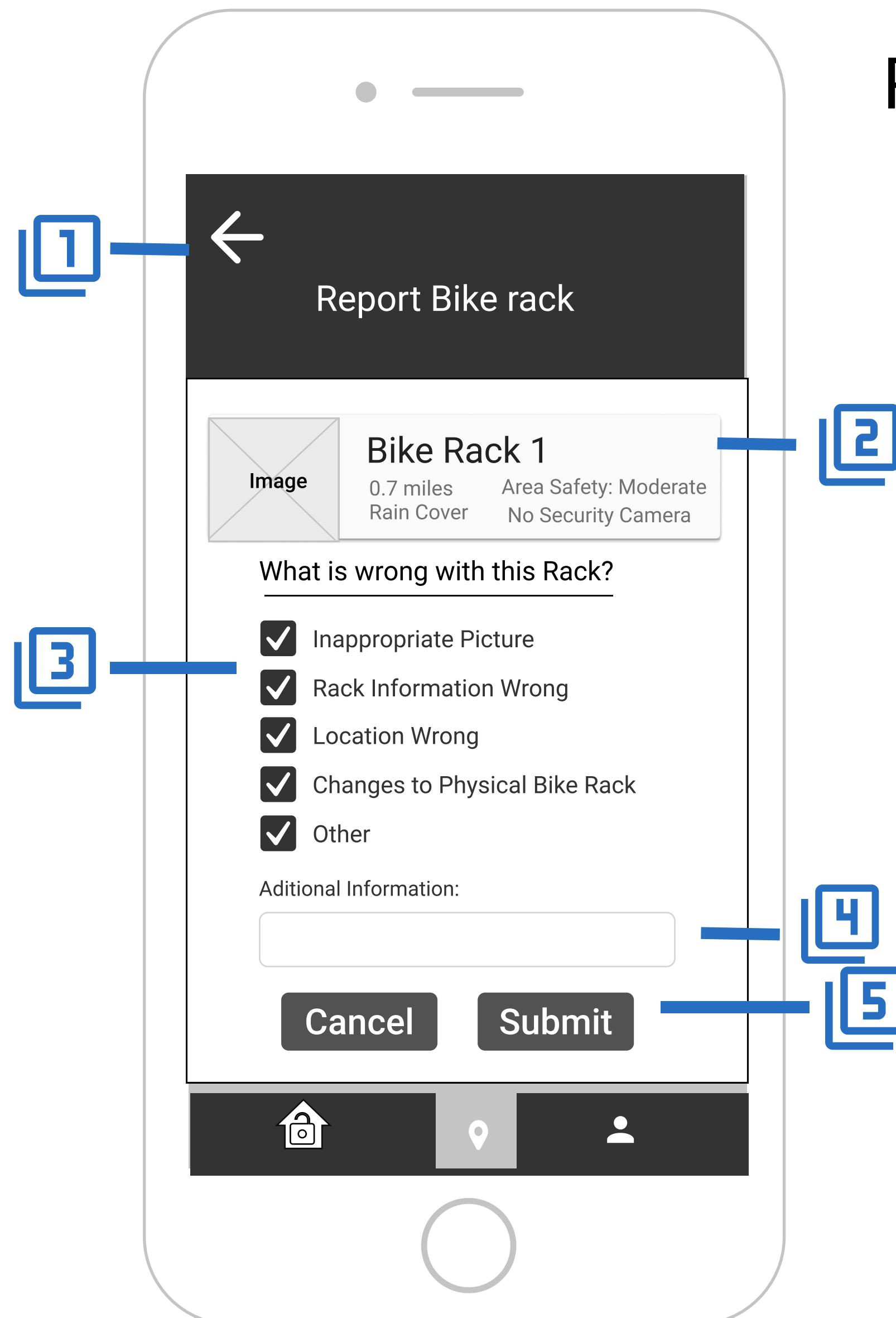
- 1 Takes the users back to the map of bike racks if they want to get a better view
- 2 Opens up drop down menu to filter stops
- 3 Shows an Image of the bike rack to help user decide if they want to lock up here
- 4 Bike lock details to help users choose the rack they will use
- 5 Open up directions to stop in the app
- 6 Lets users see further details about the rack
- 7 Able to keep scrolling to see more stops

# Single stop information



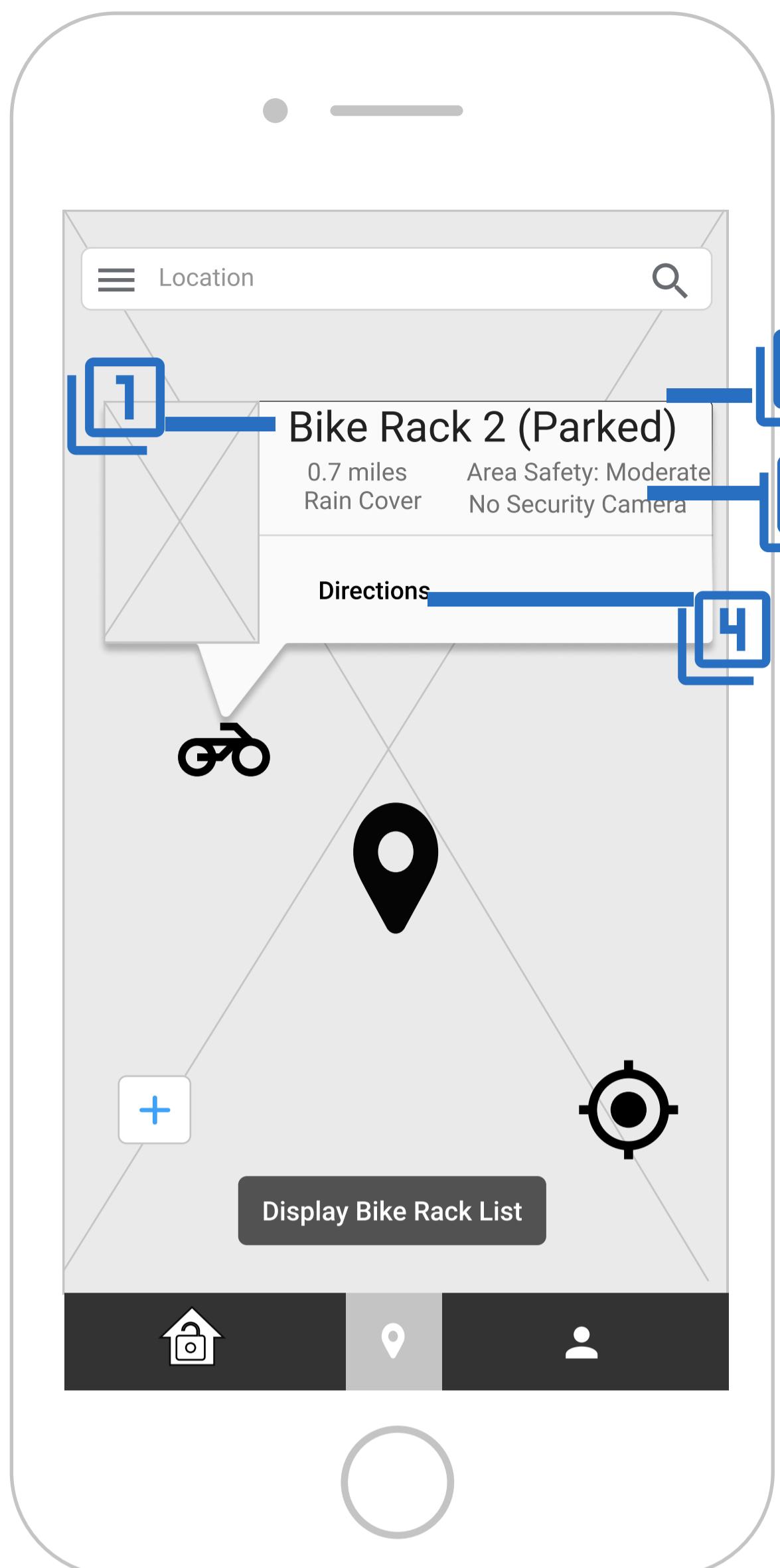
- 1 Takes the users back to the list of racks or the map of racks.
- 2 Number of Open spots at the bike rack. Green indicates high proportion of spots is open
- 3 Displays all images taken of the stop. User can scroll through by swiping right.
- 4 Open up directions to stop in the app or opens up Report Bike rack screen
- 5 Bike lock details to help users choose the rack they will use

# Report Bike Rack



- 1 Navigation back to the stops details page
- 2 Summary of stop to make sure user gets right stop.
- 3 Possible things to be wrong with the stop that immediate action could be taken about.
- 4 User can add additional comments about the stop, or highlight the problem if not listed above
- 5 Submits the report and returns to bike rack map.

# Parked bike location information



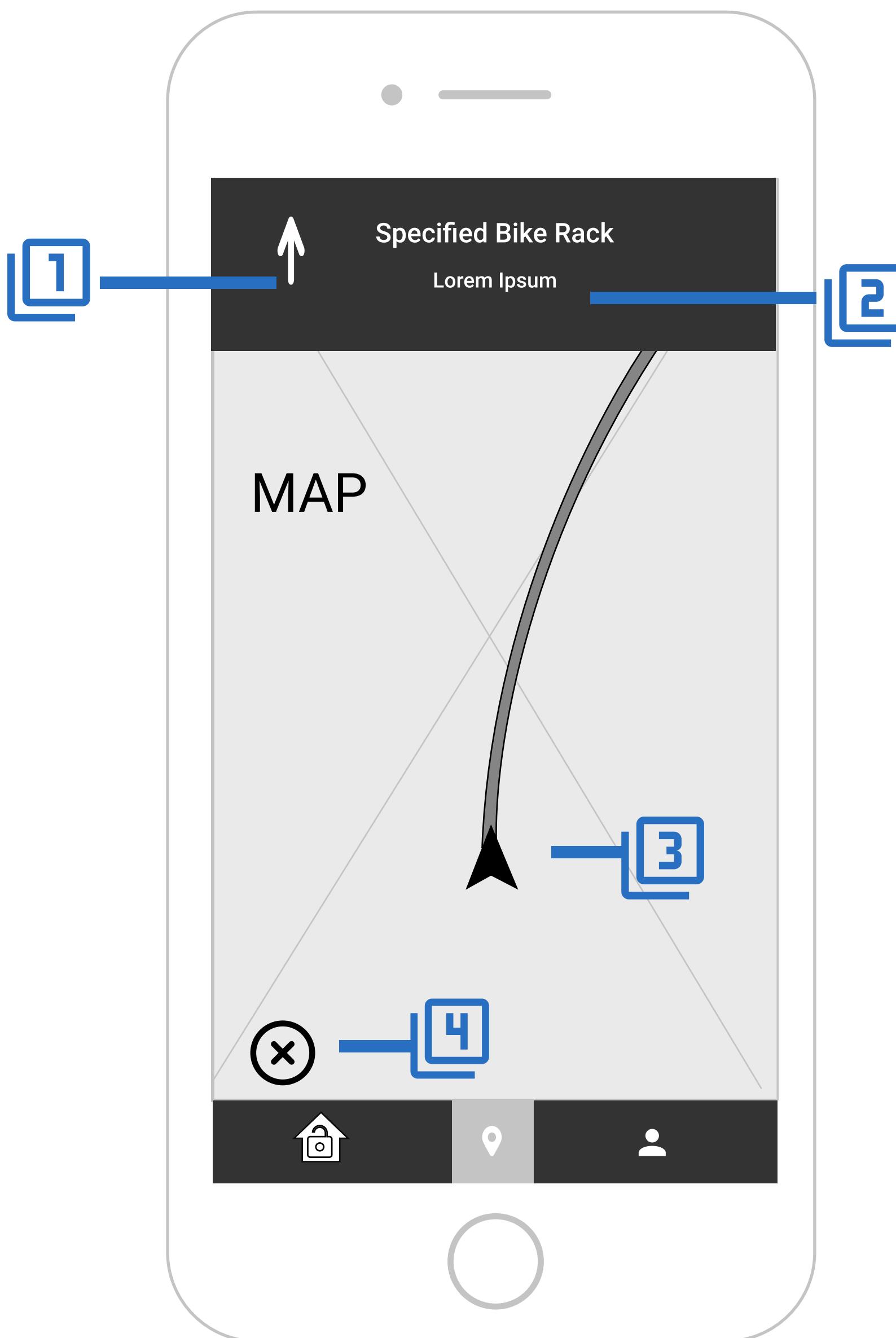
- [1] Displays the name of the nearby bike rack
- [2] Notifies the user that their bike is locked at this location
- [3] Descriptions are given about the bike rack
- [4] Displays a route from the user to the selected bike rack

# Routing screen

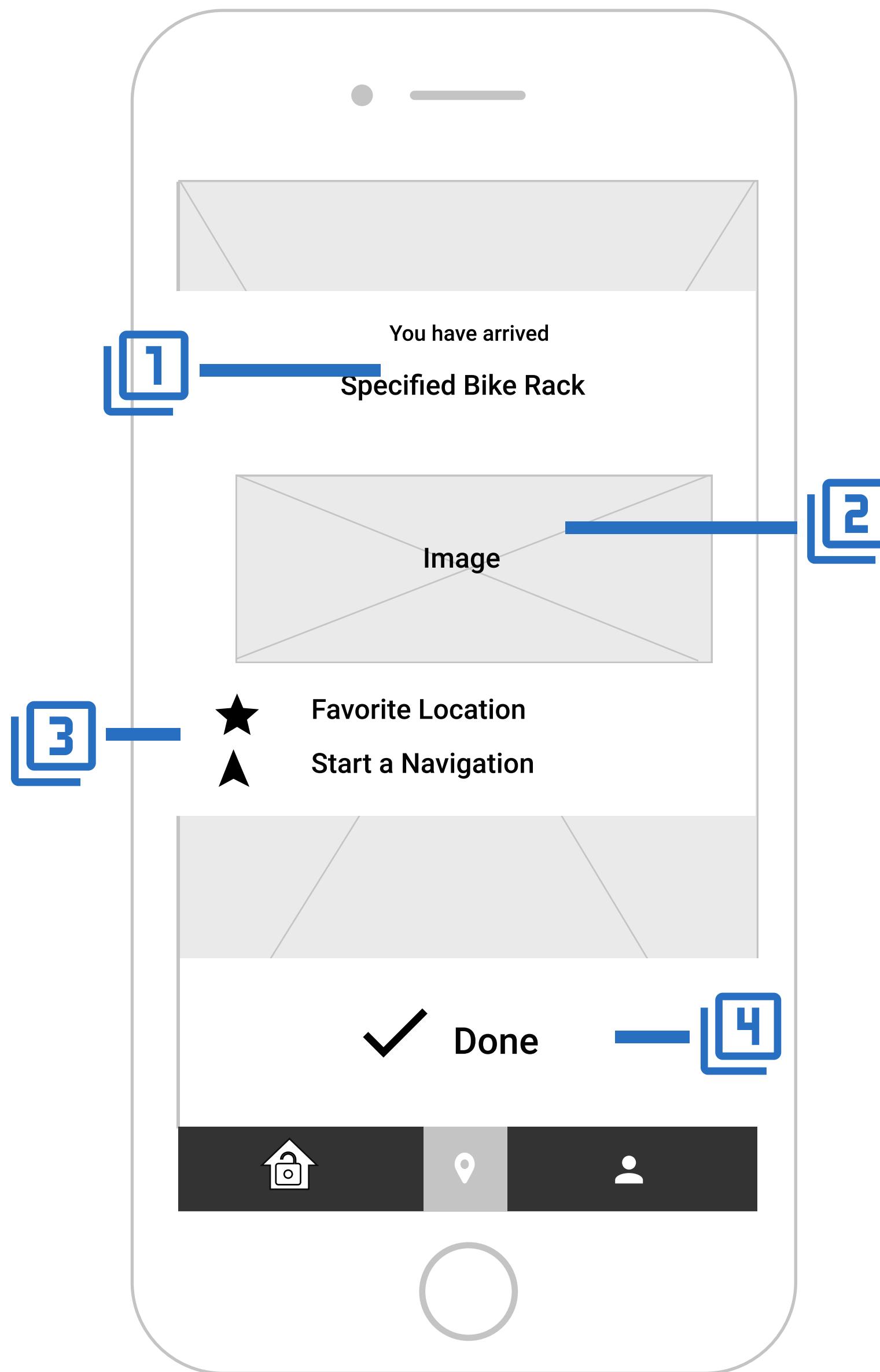


- [1] Displays the user's current location
- [2] Displays the current's targeted destination
- [3] Highlights the suggested route towards user's selection
- [4] Displays the estimated time of arrival and distance to destination
- [5] Allows users to begin navigation toward selection

# Navigation



-  1 Displays the current suggested direction toward destination.
-  2 Displays the name of destination and address of next turn.
-  3 Displays user's current location and update as user is moving
-  4 Gives user the option to exit out of the navigation process.



# Arrival



Notifies user they have arrived at the selected location.



Displays an image of destination the user has arrived at.

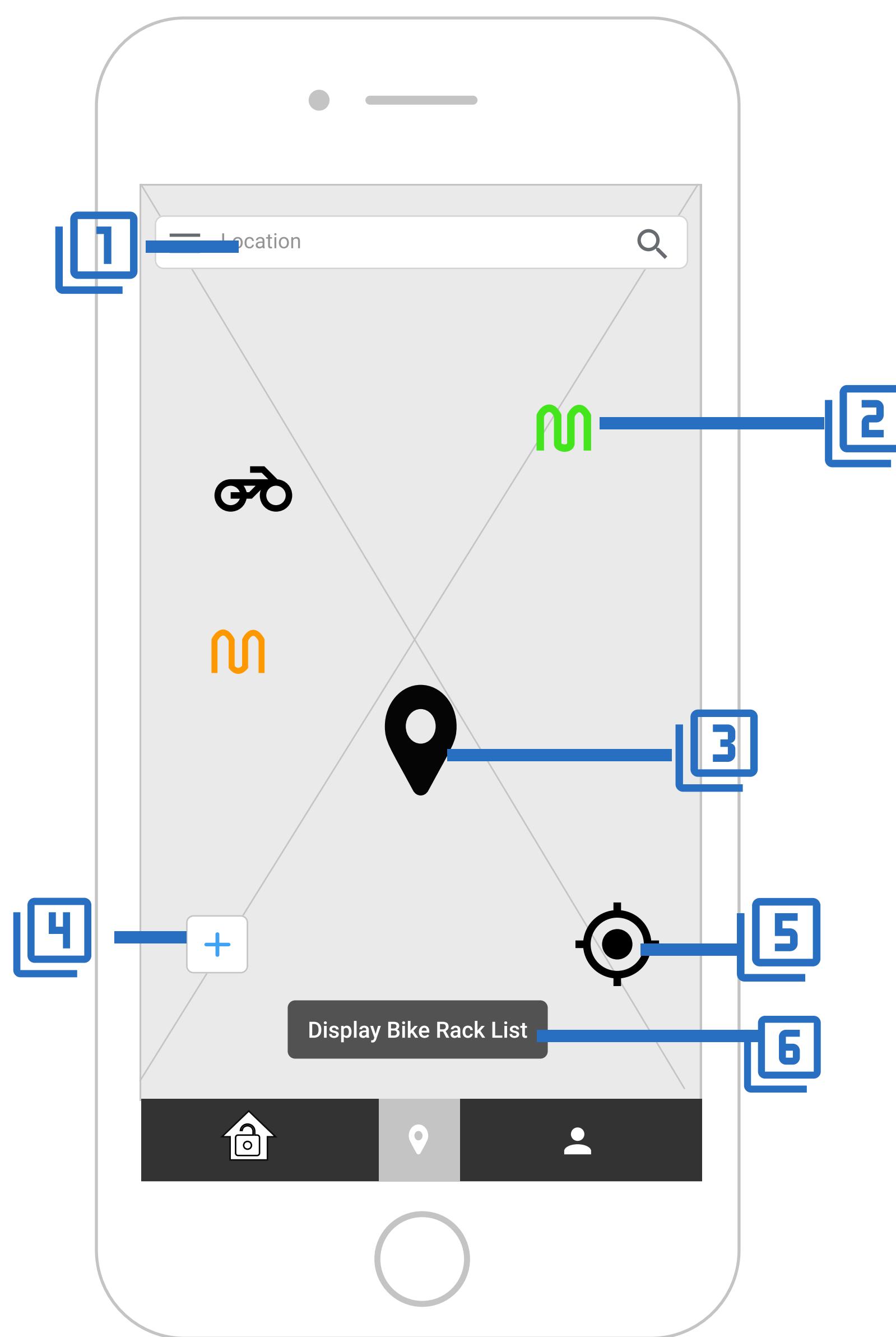


Gives user the option to add location to favorites and to begin a new navigation.



Button for completion and to return to map screen.

# Main Bike Map Page



1 Enables users to search by locations

2 Icon denoting a nearby bike rack

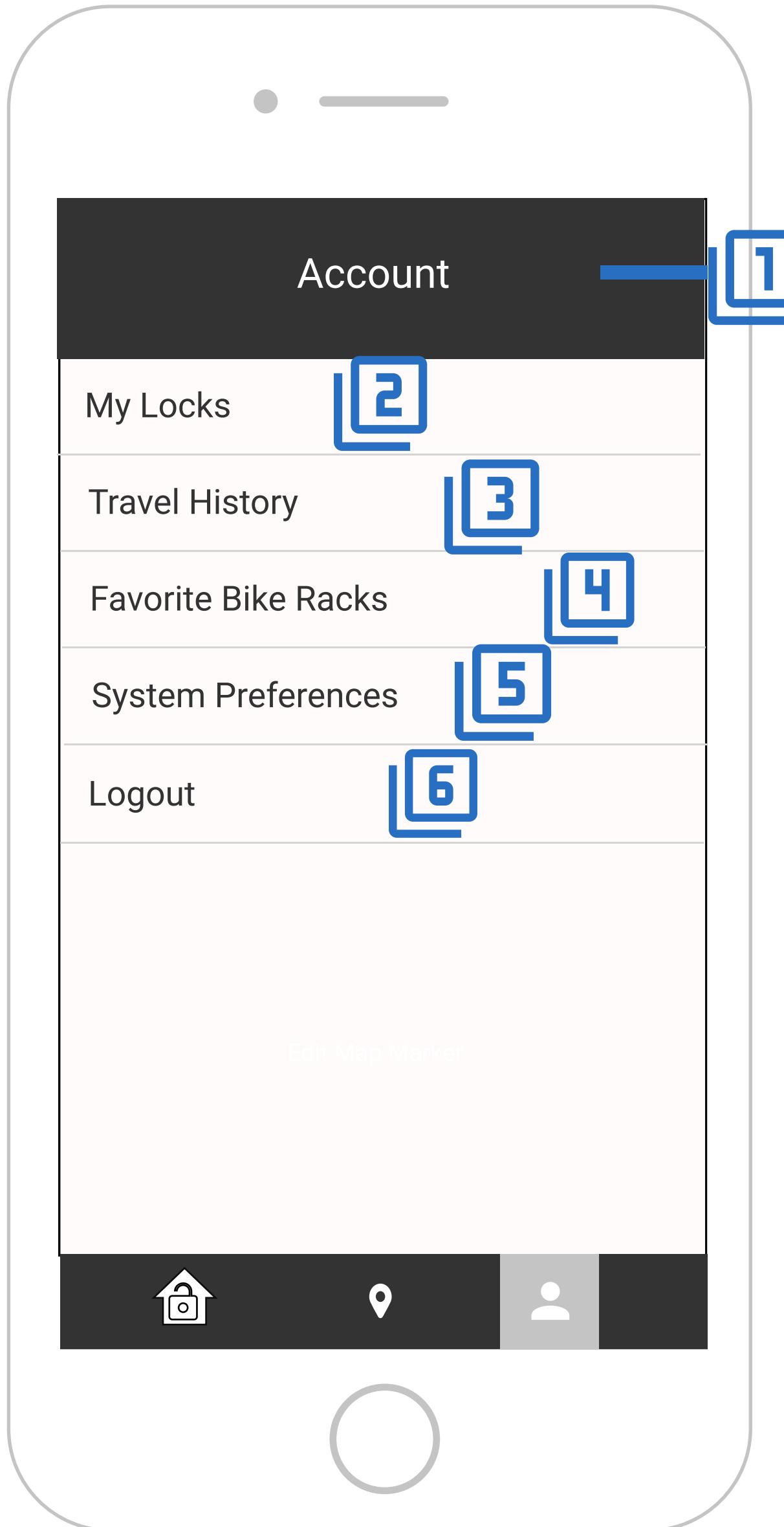
3 Icon denoting the user's current location

4 Enables users to add an registered location

5 Centers the map screen on the user

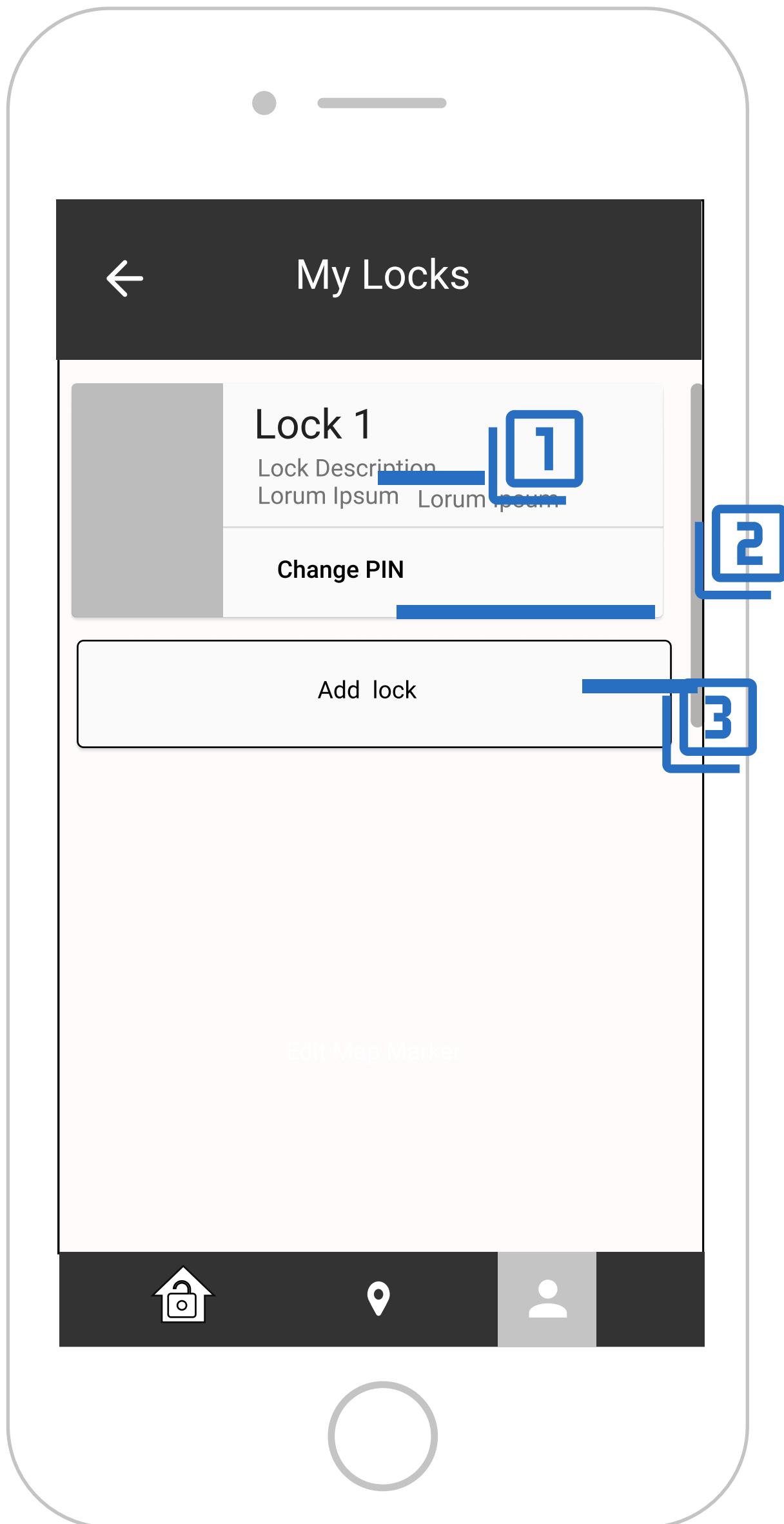
6 Displays a list of nearby bike racks with descriptions

# Account Page



- 1 Displays options of account related settings
- 2 Displays the registered locks owned by the user
- 3 Displays a list of recently visited bike racks
- 4 Enables users to look through and edit their favorited bike rack locations
- 5 Enables the user to adjust their app preferences
- 6 Option for the user to logout of their account

# Locks Page



1

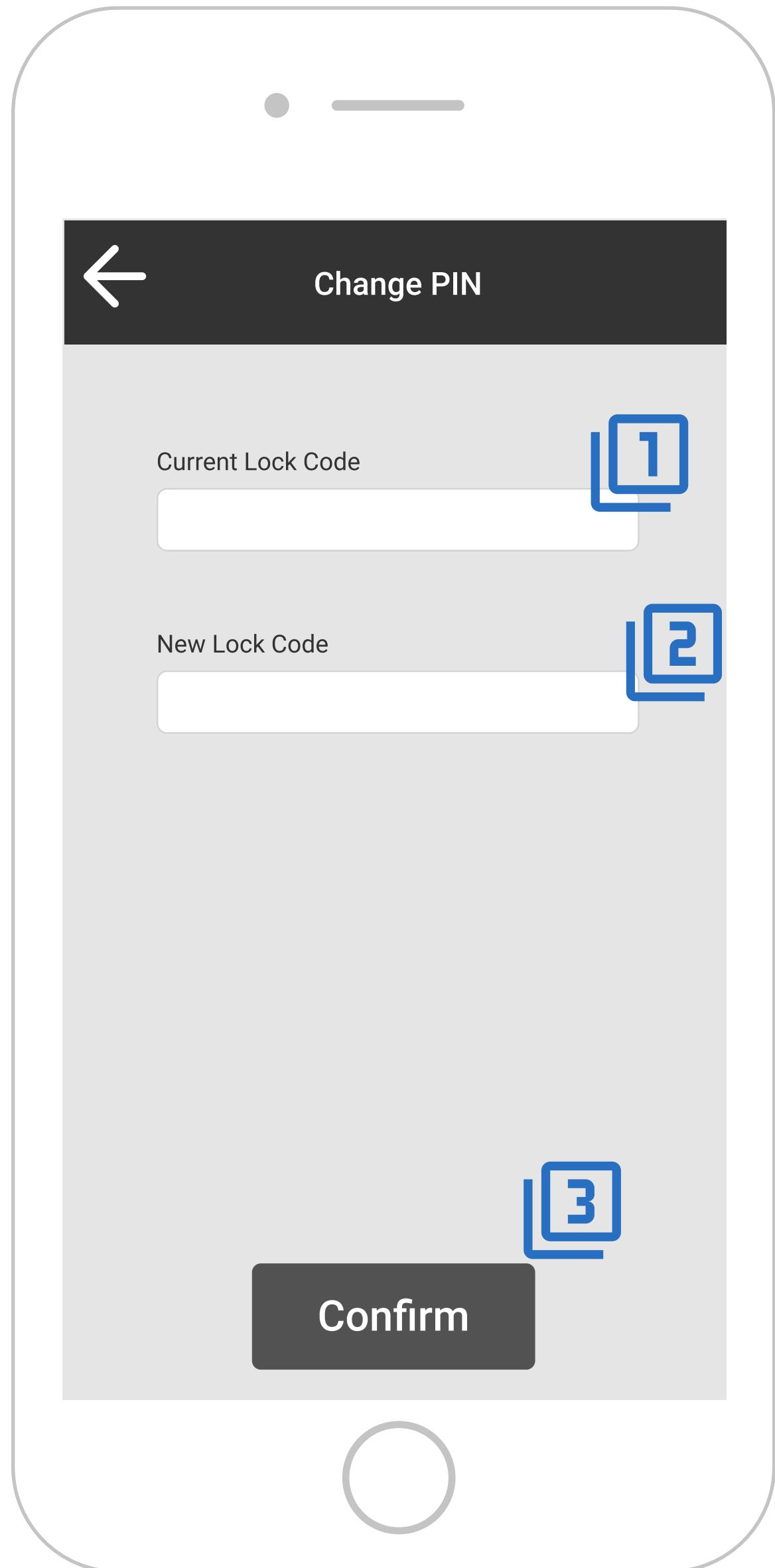
Displays a list of the user's lock and model description

2

Enables the user to change their backup PIN password for the lock

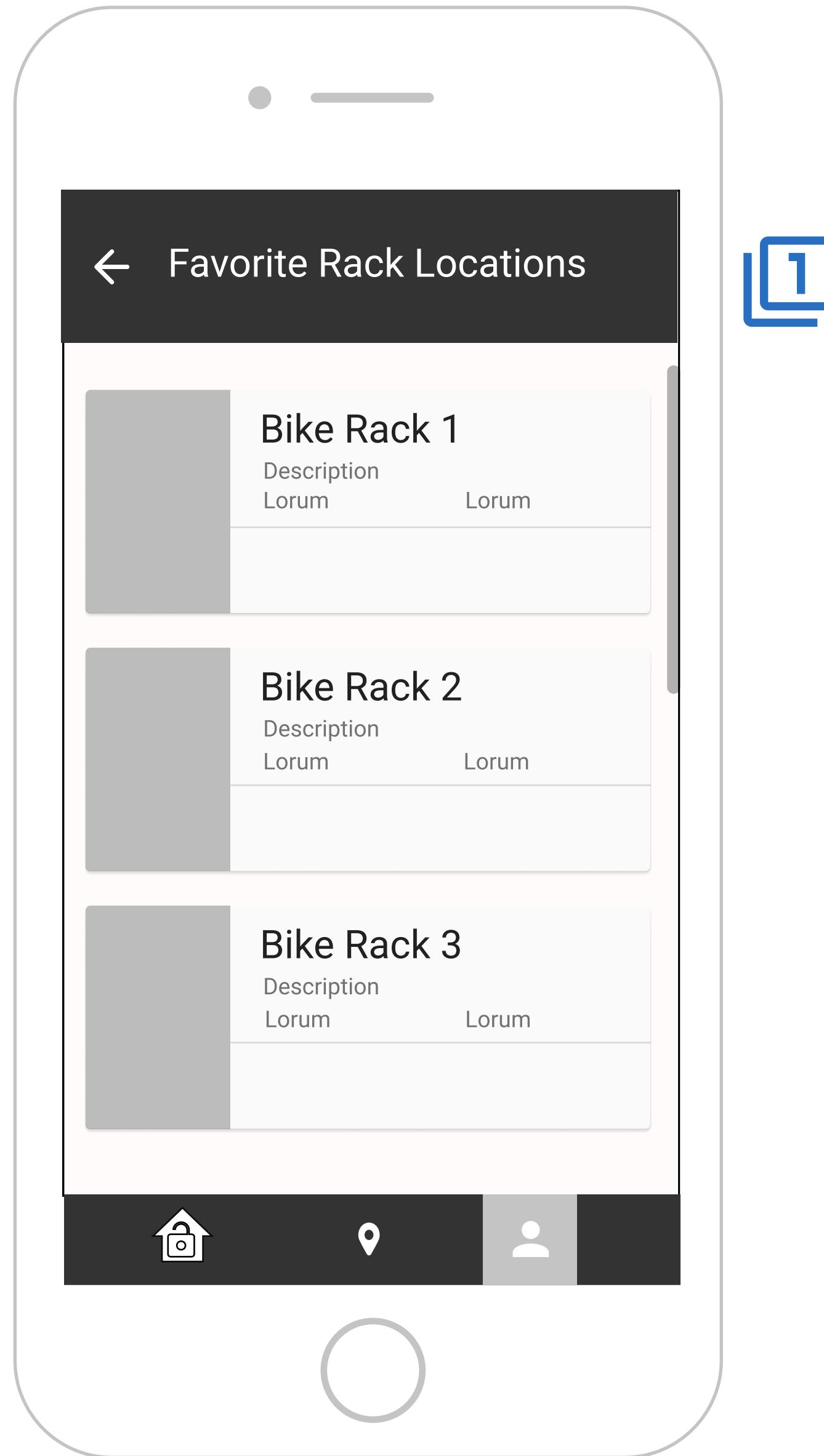
3

Gives the user the option to add more locks if they have multiple smartlocks



# Change Pin

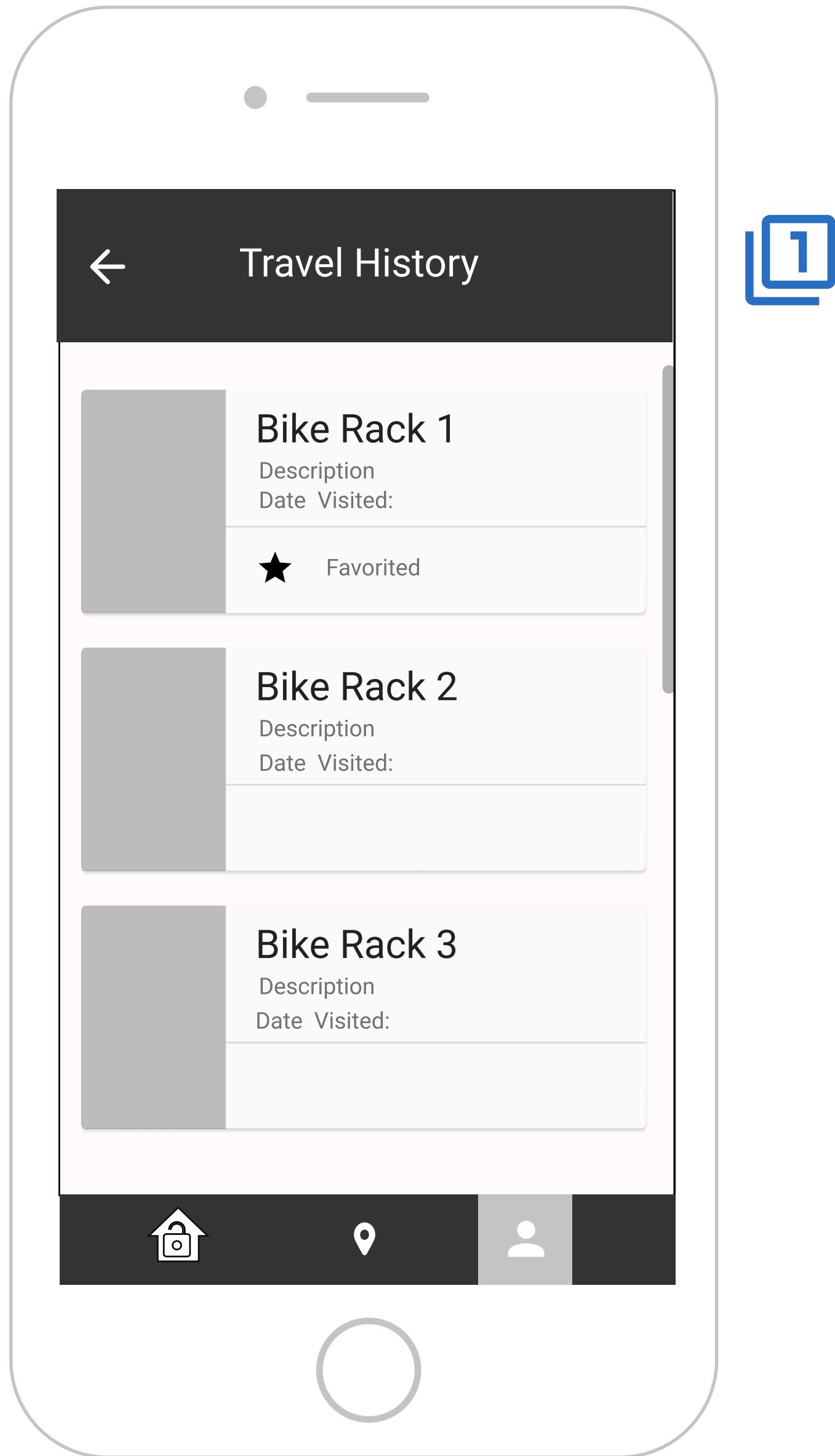
- 1 Asks the user to input current password
- 2 Enables users to add a new PIN
- 3 Completes the process of changing PINs and returns users to My Locks page



## Favorited Rack Location



Displays a list of favorited bike racks and a description of each depicting location, number of times visited, and date of most recent visit.

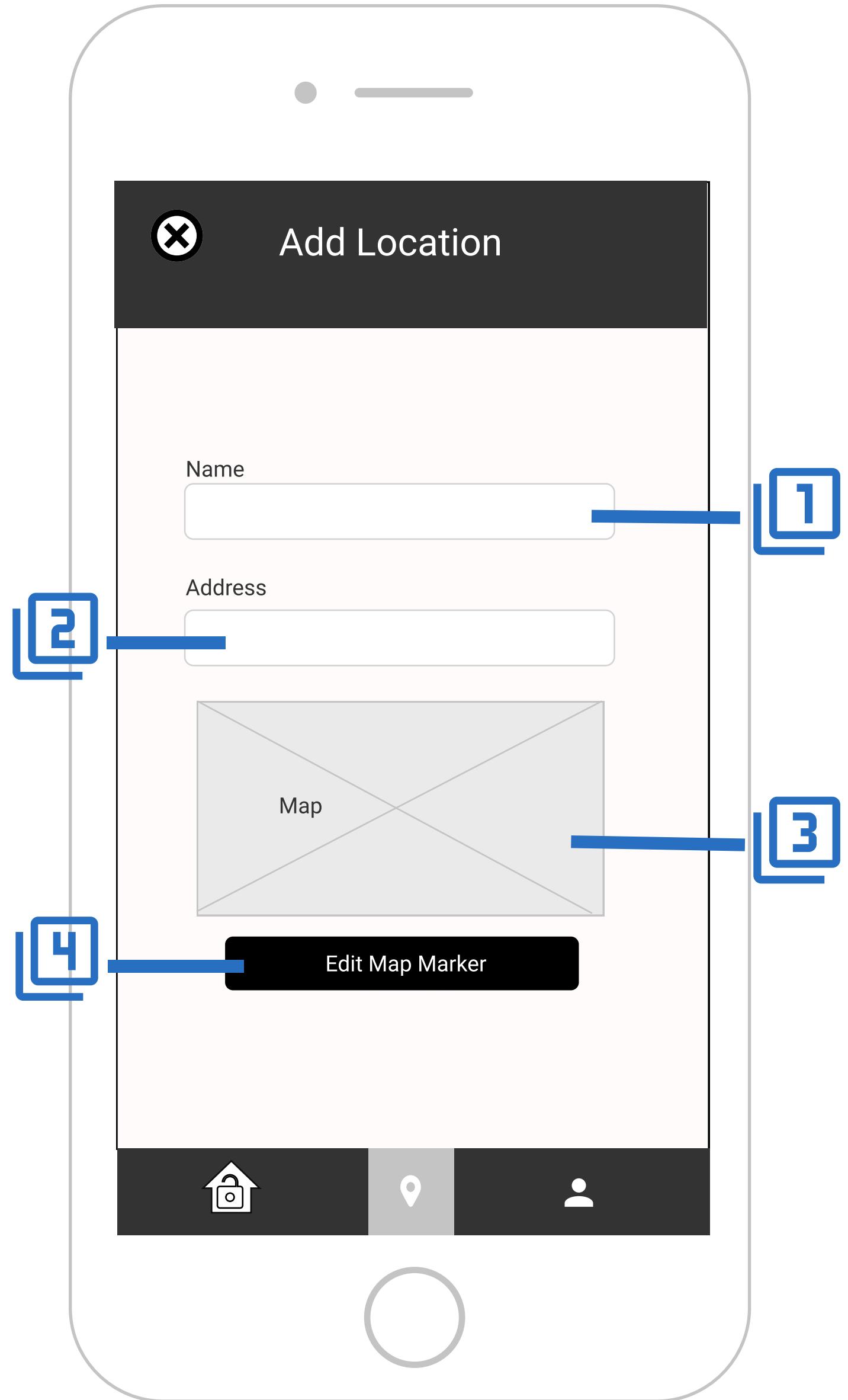


# Travel History

1

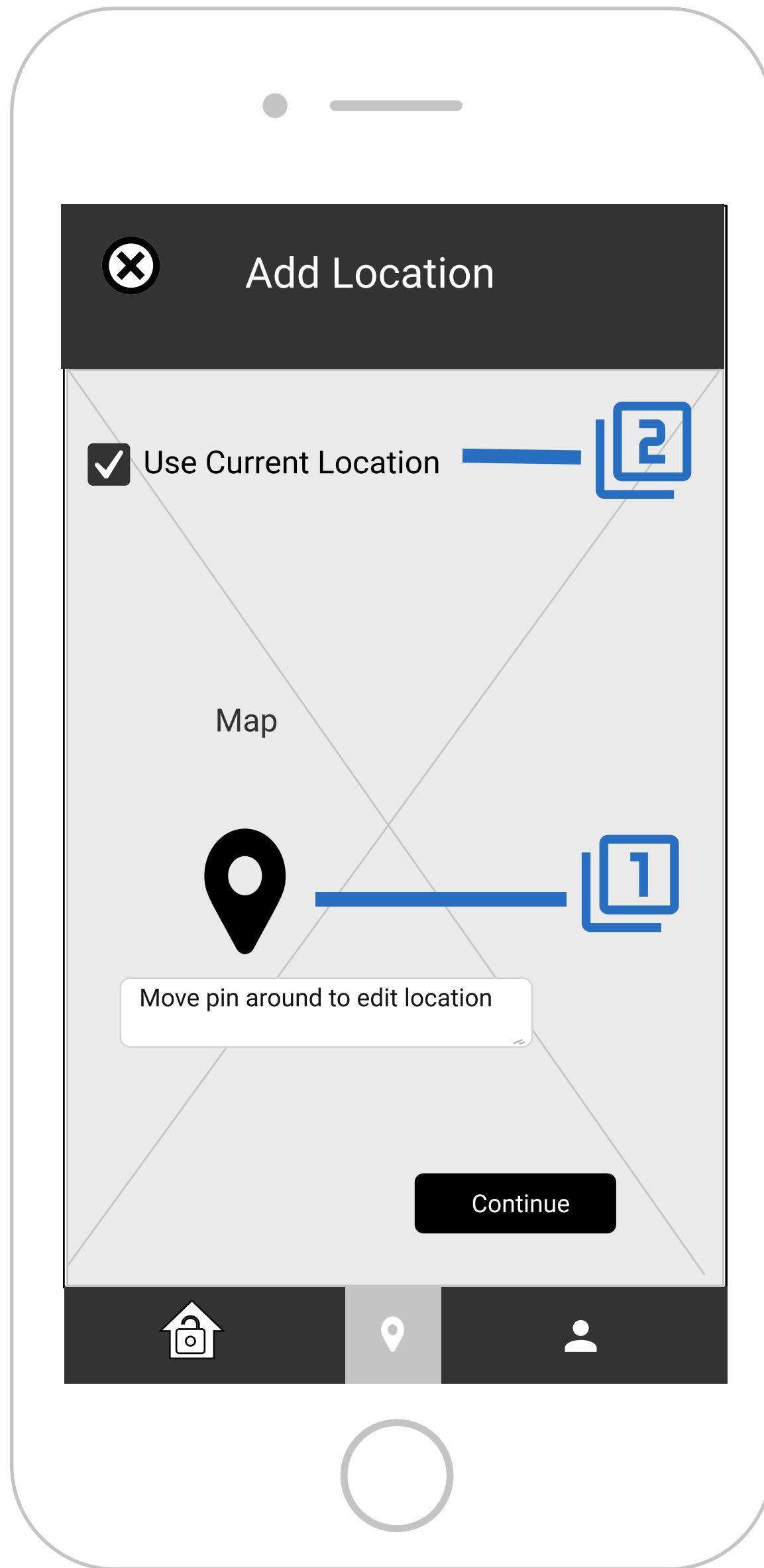
1

Displays a list of recently visited bike racks and a description of each depicting location, number of times visited, date of last visit, and displaying if it is a favorited location.



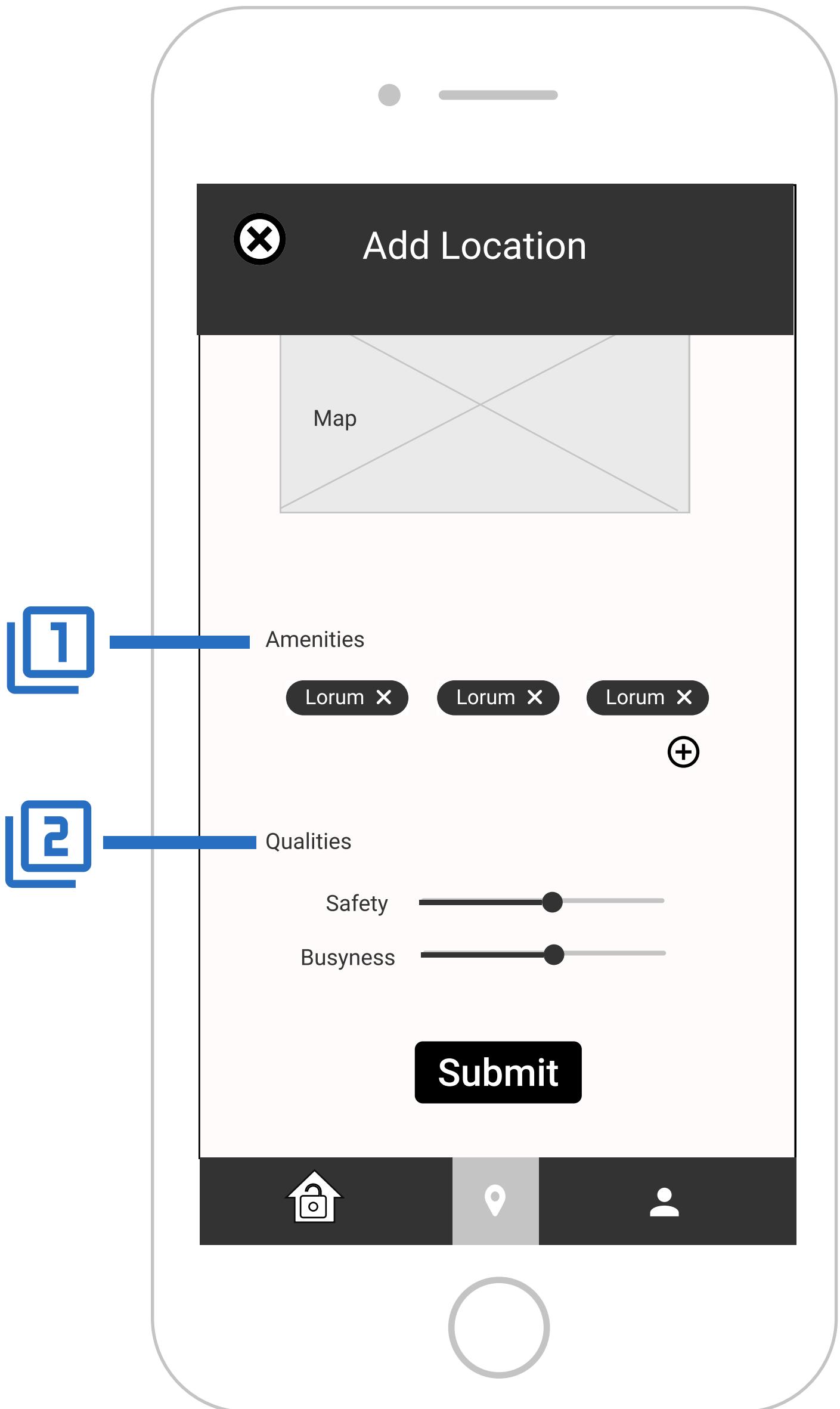
## Add Bike Lock Location

- 1 Allows user to add a descriptive name to the
- 2 Allows the user to input the address
- 3 Displays a map of the surrounding area
- 4 A button which allows users to precisely place a marker for the added bike rack



## Add Location on Map

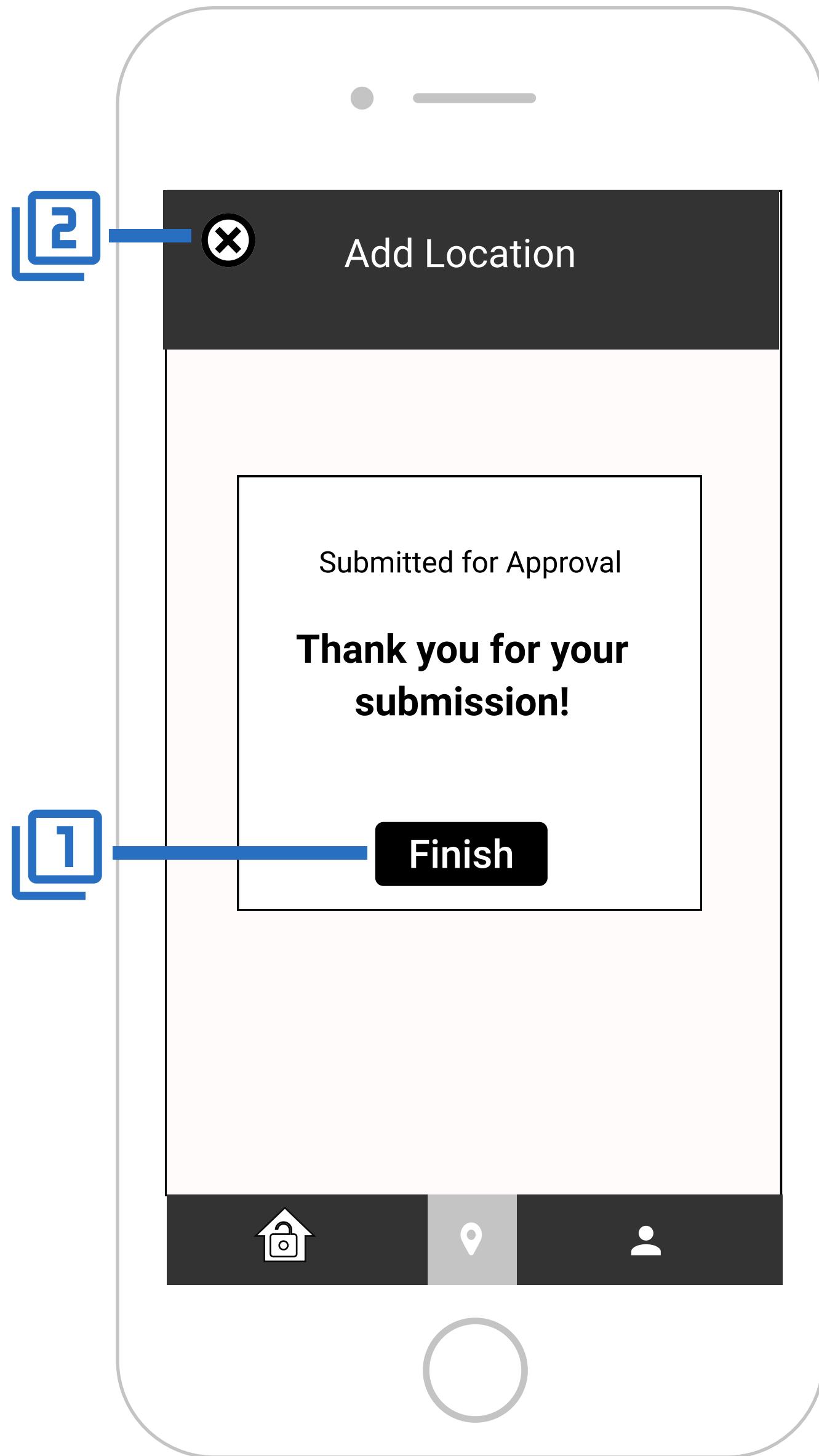
- 1 Allows users to adjust the drop pin on the map to show an accurate location
- 2 Enables users to choose how they want to input the bike rack location



## Add Location Details

- 1** Allows users to type and add a list of amenities available at the location
- 2** Enables users to edit sliders of descriptives for the location

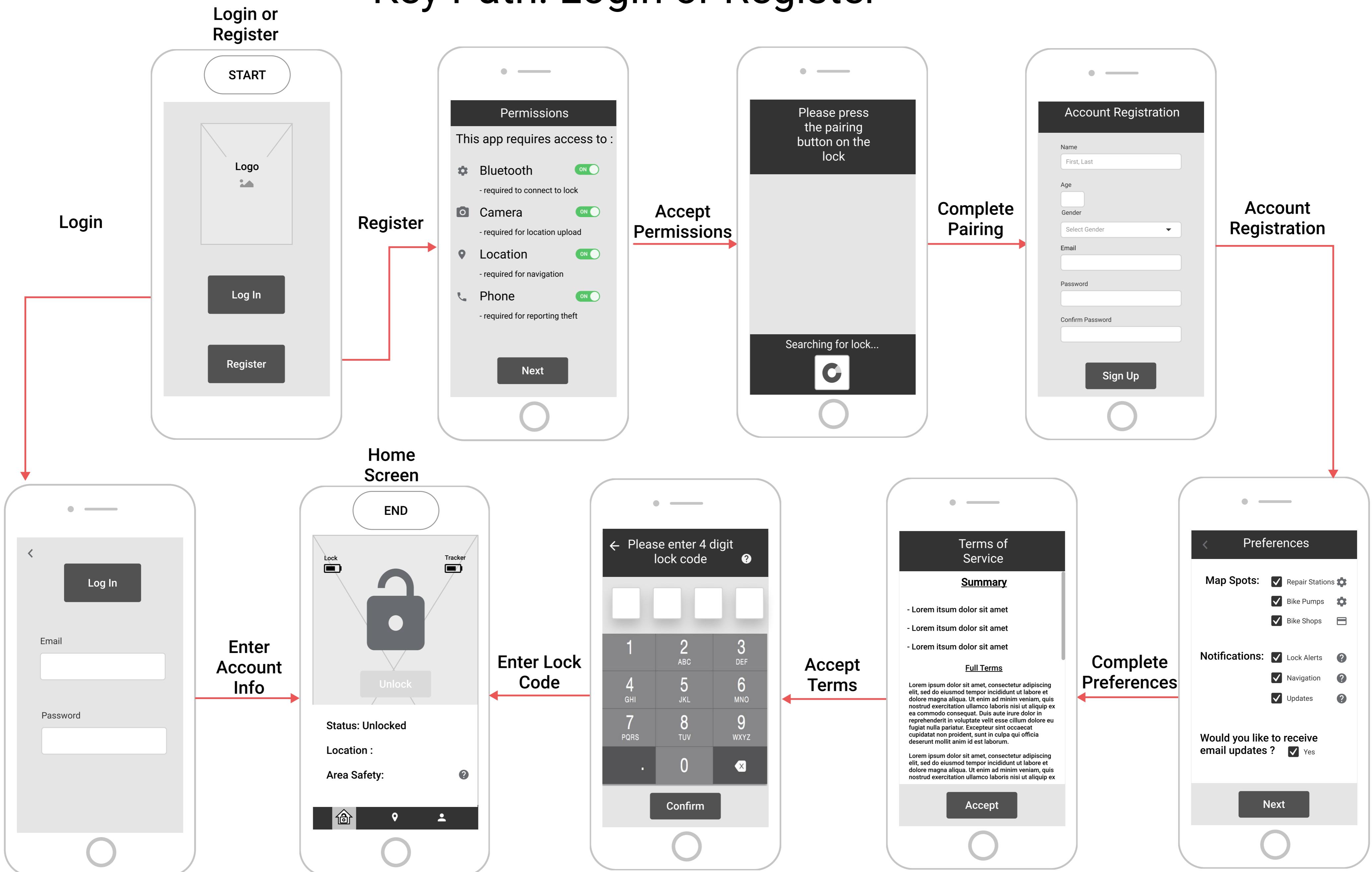
Designer: Sam



## Finish and Submit

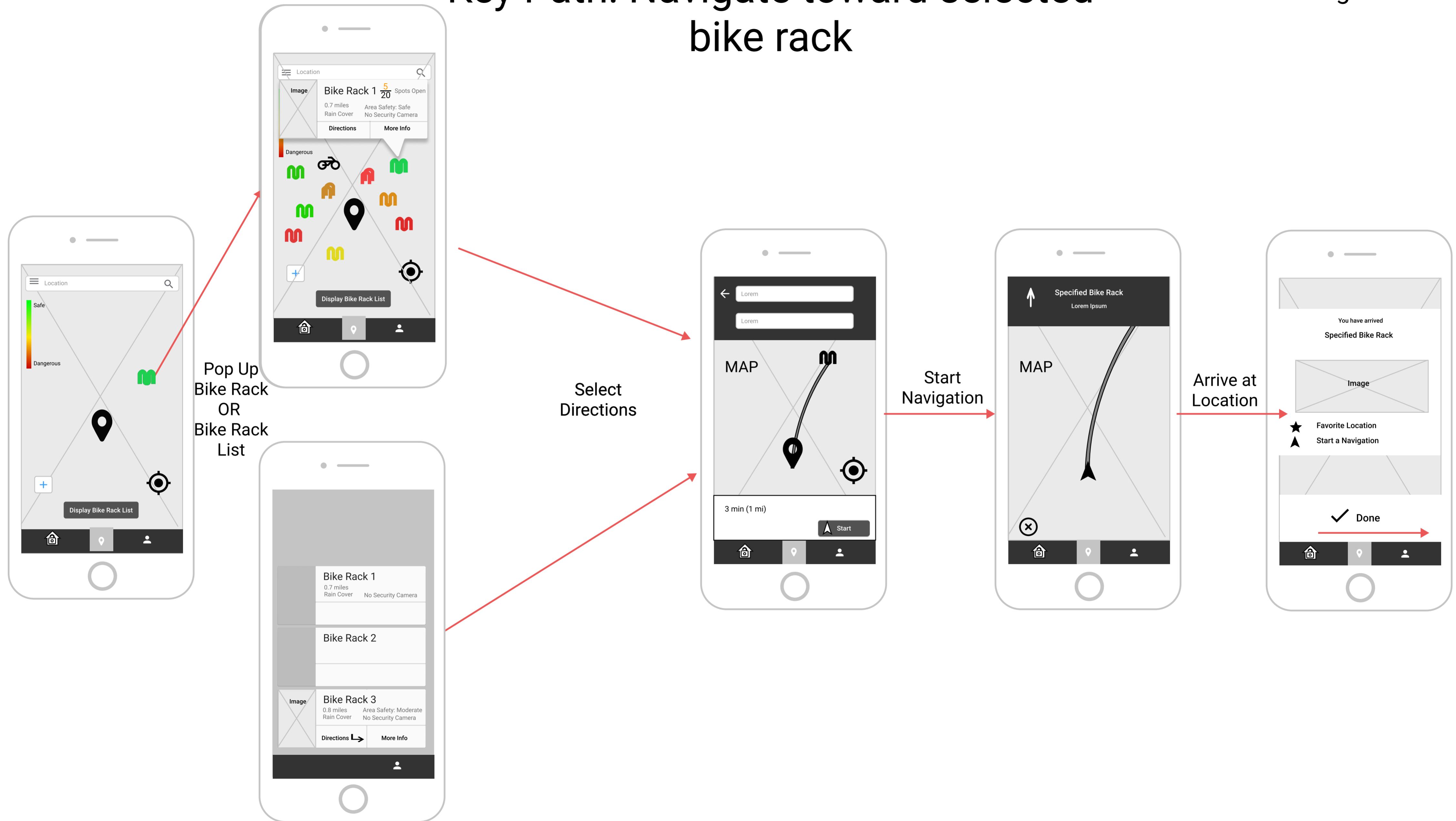
- 1 Notifies user that they do not need to input any more information
- 2 Provides the user with the option to submit or delete the completed form

# Key Path: Login or Register

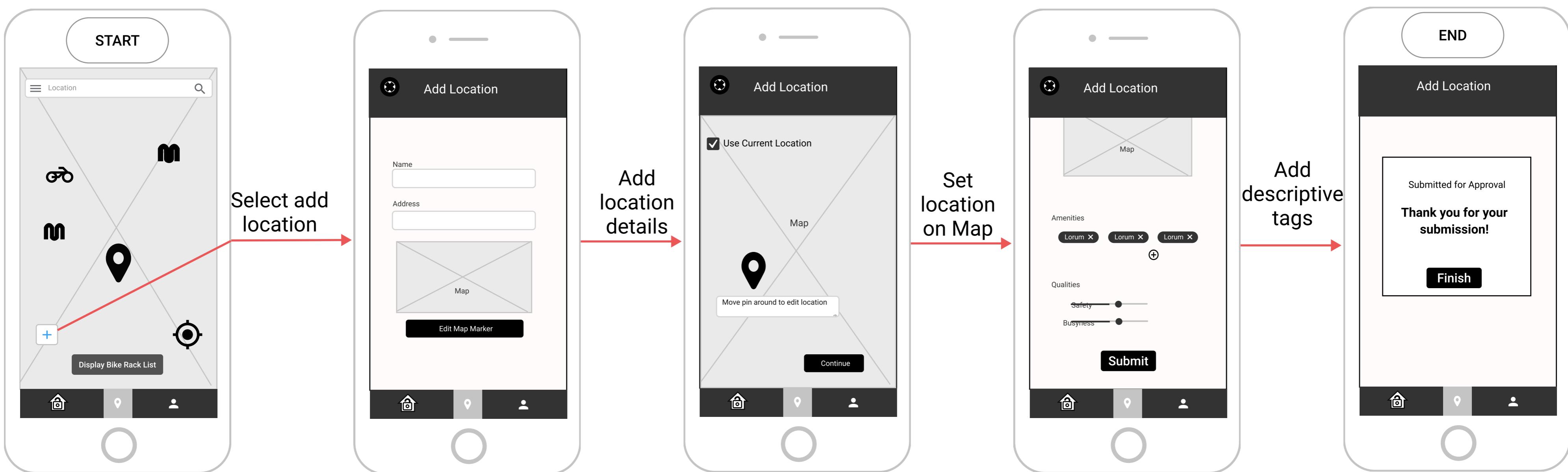


# Key Path: Navigate toward selected bike rack

Designer: Nadir



# Key Path Scenario: Adding Location



# Key Path Scenario: Reporting Theft

