

Feature Name	Feature Description	User Actions	Dependencies	Priority
Automatic locking and unlocking	When I approach my bike, it automatically unlocks, so I can immediately start riding. When I leave my bike, it automatically locks, so I don't have to hassle with a manual lock.	<ul style="list-style-type: none"> Adjust distance to unlock Disable/enable auto-unlock See visual and hear audio confirmation See UI button to unlock 	<ul style="list-style-type: none"> Proximity awareness Bluetooth Self-locking/unlocking mechanism 	1
Manual locking and unlocking	When my phone is dead, I manually unlock my bike, so I can ride it. When I don't have my phone, I manually lock my bike so it won't get stolen.	<ul style="list-style-type: none"> Use a key to unlock my CityBike 	<ul style="list-style-type: none"> Traditional key mechanism 	1
On-bike E Ink display with backlight	When traveling somewhere new, I see directions on my on-bike display, so I don't have to use my phone. When riding at night, I use the display's backlight, so I can see directions.	<ul style="list-style-type: none"> Manage screen settings View directions View alerts and other important information 	<ul style="list-style-type: none"> Light sensor Bluetooth 	1
Current bike location	When I forget where I parked my bike, I use the app to see its location, so I can easily find it. When my bike has been stolen, I view its location, so I know where to find it. When riding an unfamiliar route, I see my current location, so I don't get lost.	<ul style="list-style-type: none"> See location of CityBike See my current location See last known location of CityBike if current location is unknown 	<ul style="list-style-type: none"> GPS Location tracking Maps 	1
Navigation	When I'm preparing to go somewhere unfamiliar, I use the app to get directions, so I don't get lost. While I'm cycling, I get turn-by-turn directions, so I can easily navigate to my destination. When I'm riding my bike, I want to see my progress toward my destination, so I know if I'll arrive on time.	<ul style="list-style-type: none"> Input destination and starting point (default to current location) Choose between multiple routes Receive step-by-step guidance via the on-bike display 	<ul style="list-style-type: none"> GPS Bluetooth Maps 	1
Bell	When a tourist steps into the bike path, I ring my bell at them, so they'll be aware of me. After purchasing the bike, I customize the bell sounds, so it feels like it's mine. When I can't find my bike, I ring the bell using the app, so I know where it is.	<ul style="list-style-type: none"> Customize bell sound Customize bell volume Ring bell using on-bike button Ring Bell using the app 	<ul style="list-style-type: none"> On-bike speaker Bluetooth 	1
Account	When I purchase my bike, I create a new account, so I can connect to my CityBike. When I get a new CityBike, I connect it to my account, so I can retrieve it if it gets lost or stolen. When I get a new phone, I log into my account, so I can access all of my CityBike information. When I sell my CityBike, I disassociate it from my account, so the new rider can be the primary owner.	<ul style="list-style-type: none"> Create an account Log into an existing account Associate a new bike with my account (primary account holder) Disassociate an old bike from my account 	<ul style="list-style-type: none"> Bluetooth 	1
Weather integration	When preparing to ride, I review the upcoming weather, so I can be prepared.	<ul style="list-style-type: none"> See daily weather forecast See immediate forecast 	<ul style="list-style-type: none"> Weather integration 	2
FAQs	When I encounter a problem, I read the FAQs, so I can find a solution. After purchasing my CityBike, I read the instructions, so I can assemble it.	<ul style="list-style-type: none"> Read CityBike manual Read FAQs 		1
In-app customer-support chat	When I can't fix a problem myself, I chat with customer support, so I can fix the problem.	<ul style="list-style-type: none"> Chat with customer support 	<ul style="list-style-type: none"> Customer-support chat module 	2
Current ride statistics	When I'm riding my CityBike, I can see basic statistics about my ride, so I know how far and fast I went.	<ul style="list-style-type: none"> See on-bike display Review statistics in-app 	<ul style="list-style-type: none"> On-bike display GPS 	3
Historical statistics	After a year of riding my CityBike, I look back on ride statistics, so that I can see my longest rides. After a month of riding my CityBike, I review ride data, so I can see how far I cycled the past month.	<ul style="list-style-type: none"> Review statistics in-app 	<ul style="list-style-type: none"> Ride logging GPS 	2
Multiple users per CityBike	When I'm out of town, I give a friend access to my bike, so that they can use all of its features. When I'm running a bike-sharing business, I give bike renters access to my bikes, so that they can easily navigate the city.	<ul style="list-style-type: none"> Give access to new rider Remove riders with access Manage access rights 	<ul style="list-style-type: none"> Account permissions 	2
Progressive support	When something goes wrong with my bike, customer support proactively contacts me, so we can solve the problem before it's dangerous.	<ul style="list-style-type: none"> Interact with customer support 	<ul style="list-style-type: none"> Sensors Customer support data interface 	2
Preventative maintenance	After I've ridden my CityBike for a year, I receive a notification that I should get a tune-up, so that my bike stays in tip-top condition. When it gets cold out, I receive a notification that I should fill my tires with air, so I can continue riding with ease.	<ul style="list-style-type: none"> Receive notifications Update maintenance log 	<ul style="list-style-type: none"> Sensors 	2
Voice commands	When I'm riding my bike, I use a voice interface to ask for directions, so that I can keep my focus on the path ahead.	<ul style="list-style-type: none"> Activate voice interface Request directions Choose route 	<ul style="list-style-type: none"> Microphone Speaker Voice assistant integration 	3
Route feedback	When a route is under construction, I mark it as temporarily closed, so that other riders don't get the same recommendation. When a route is unpleasant, I provide negative feedback, so the app doesn't recommend it to me again.	<ul style="list-style-type: none"> Review route Provide feedback 		3
Remote locking	When my bike has been stolen, I can lock it, so that no one else can ride it.	<ul style="list-style-type: none"> Mark bike as stolen 	<ul style="list-style-type: none"> GPS Self-locking/unlocking mechanism 	3