

## **Demo Sequence**

1. (User 1) Register with email → Input password → Login with an email
2. (User 1) Click on profile → Change Username
3. (User 1) Change Profile Picture
4. (User 1) Click on goals → Update goals with high value → Update goals with reasonable value
5. <Swap to next person>
6. (User 2) Forget password → Reset password
7. (User 2) Input park name "Bukit Timah Nature Park" → Display route
8. (User 2) Click on Track → Start Cycling Session
9. <Camera falls onto floor>
10. (User 2) Pause → Resume Cycling
11. (User 2) End Cycling
12. (User 2) Click on Session → Check Recent Cycling
13. (User 2) Check goals

## **Demo Sequence**

Introducing Urban, a cycling and running app for everyone!

Kai is a new user of Urban and wants to begin his cycling journey. He tries to log in but doesn't have an account. Pressing register, he inputted relevant details like his username, email address, and password.

Clicking Register directs him to the application.

On the App page, he looks at the map presented to him. UrbanX provides routing to any park in Singapore, and he decides to key in some areas he is interested in to see the possible routes he can take. He does this by typing in parks he knows of around Singapore, and UrbanX shows him a good route from its database of walking paths, park connectors, and bike routes.

He decides not to start his journey yet. Instead, he clicks on Profile. Looking at his profile settings and decides to update them and presses edit.

He decides to upload a handsome photo of himself as his profile picture. Urban redirects him to his gallery and he crops the photo of himself. Satisfied with the picture, he decides to change his username to something else, and presses save.

Next, he looks at his goals and decides to set goals for his app journey. Of course,

extremely crazy goals will be rejected. Keep it achievable, Kai! UrbanX dynamically updates goal progress after each session, so Kai's new profile is at 0%! Choosing a better number, he decides to log out and exercise another day.

Now we head to Ryan, an old-time user of Urban. He logs into his account to begin a day of cycling.

He finally manages to get into the app and decides to start.

He wants to cycle to Bukit Timah nature reserve and puts the location on the map. He analyses the route and decides to set off.

Wearing his helmet first, he begins his exercise. The timer starts, and he is off and away!

The app displays real-time location tracking, so Ryan knows where he is all the time and doesn't get lost. His current time is also displayed on the app, and he can therefore make sure he is on pace.

Ah! Ryan's coin pouch just fell out of his pocket!

No worries, Ryan stops the tracking, and the time pauses on Urban. He swings around and picks up his pouch, and presses resume. The time continues ticking, and off he goes!

UrbanX is a mobile application that uses React Native, a JavaScript framework, and React Expo for easy deployment on both Android and iOS platforms. React Native allows for the development of cross-platform applications using a single codebase. The app's backend is built on the MongoDB database and communicates with the app through a RESTful API. It uses React expo Location to get current coordinates after the user allows the app permission to perform foreground and background location checks.

Soon, Ryan arrives at the destination he had searched for on the map previously, Bukit Timah nature reserve. He pauses the app and decides to check his most recent session. He clicks on Session and looks at the route that he had travelled to get here. The statistics page clearly shows duration, distance, and the average speed travelled. Furthermore, the time when he has paused the clock when he dropped his coin pouch was omitted from the statistics, providing a more accurate overview of the exercise.

Feeling good about his exercise, he takes a look at his goals. The goals have been updated automatically, and he has completed his goal! He decides to reset to zero.

and set a new target, then log out! Thank you for watching our demonstration of URBAN.