



# root: README

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## **Product Overview**

Root is a mobile application designed to foster community engagement by enabling users to join or create communities and participate in shared challenges. Built using React Native with Expo for the front end and Supabase for the back end, Root offers a seamless and intuitive user experience for connecting with others and contributing to communal goals. Whether it's outdoor activities, environmental initiatives, or social causes, Root makes it easy to get involved, track progress, and celebrate achievements together.

## **Key Features:**

- Discover and join public communities nearby
- Create your own communities and invite others to join
- Add and participate in group challenges
- Follow community members and track your contributions
- Complete challenges and monitor your progress over time

## [Installation]



### For Smartphone Users

- Download the Expo Go app from your app store.
- Scan the QR code provided above to launch Root in Expo Go. (Note: You may need to sign up for an Expo Go account if you don't already have one.)
- Sign up for a Root account to start exploring communities.

### For Mac or Windows Users

- Clone the Root project repository from GitHub.
- Open the cloned Root project in your preferred development environment.
- Navigate to the project directory in a terminal window.
- Run `npm install` to install all required dependencies.
- Start the project with `npx expo start`. You can then either scan the QR code with the Expo Go app on your smartphone or simulate the app on your computer by pressing 'i' for iOS simulation or 'a' for Android simulation.

## [Operating Instructions]

### Navigating Root

#### Login

- Start by logging in as a new user or use the provided demo credentials (Username: mary@test.com, Password: test12).
- Upon successful login, you'll land on the Home tab, displaying the latest updates from your communities.

#### Explore Communities

- Visit the Explore tab to find and join communities. It's the second button from the left on the navigation bar at the bottom of your screen.
- Click on a community that interests you, then join by tapping the purple join button in the community header.

#### Participating in Challenges

- Return to the Home tab to view any active challenges from your communities.
- Use the plus button at the bottom right of your screen for key actions: creating challenges in root, contributing to challenges, or creating new communities.

#### Managing Communities

- Your communities are accessible from the Communities tab, the third button from the left on the navigation bar.
- Visit any community's page for more details and to manage your participation.

#### Profile and Connections

- The Profile tab, located at the far right of the navigation bar, is where you can find friends, view the communities you're part of, and see a history of your contributions.

## How to:

- **Contribute to a challenge...** on the home tab (or community tab), press the floating “+” button on the bottom right of the screen. Three options will appear. Press the contribute button. Specify the units of your activity, press the “search for a challenge” textfield, and select which community challenge you want to apply your activity to. Leave a comment on your activity, enter how much you did, and add a photo. Press post to finish.
- **Join a community...** on the explore tab, select a community on the visible list or search for a specific community by pressing the “search for communities” textfield. Once a community is selected, press the purple join button on the community header.
- **Create a new community...** on the home tab (or community tab), press the floating “+” button on the bottom right of the screen. Three options will appear. Press the community button. Enter a community name, location, description, and photos for header and profile. Toggle the public community to your preference. Press submit to finish.
- **Add a challenge...** enter the community you want to add to via the community page. Press the “+” button next to the active challenges header. Search for a challenge and press the purple accept button on the challenge you want to add.
- **Create a new challenge...** on the home tab (or community tab), press the floating “+” button on the bottom right of the screen. Three options will appear. Press the challenge button. Enter a challenge name, description, goal amount, unit type, duration, and photo. Press create challenge to add the challenge to root’s list of available challenges.

## **[Limitations]**

root is still improving and adding additional features to make the user experience exceptional. Currently there is no way to verify contributions made by members. There are no permissions within communities so that different members can serve as administrators. Additionally, there is no way to chat within communities or with other members on the app.