# Five Miles Sharing Made Simple: **Strengthening Communities Together** Team Green 5: Jessica Hao, Zoe Cao, Jonathan Shan, Alex Miller, Newton Yang









APP INVENTOR

# **Five Miles**

# APP **DESCRIPTION:**

Five Miles is a communitydriven app that allows users living close to each other to share tools, equipment, and other personal items.







# Topics Covered

- The Story Behind
- Theme
- What is our Solution?
- Introducing the 5 Miles APP
- How Does it Work?
- Instructions
- Limitations
- Acknowledgements







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# The Story Behind

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Hello everyone! I'd like to share a personal story about my dad, who is very skilled with tools but faces a challenge due to their storage. Tools are stacked all over our shed, basement, and garage, taking up a lot of space and causing inconvenience. Moreover, he often encounters difficulties with certain projects because he lacks specific tools. To address this issue, our team came up with an innovative idea to create an app that enables parents to locate and share tools within their nearby communities across the US!

Through surveys conducted in local neighborhoods, we found that 80% of parents expressed enthusiasm and acknowledged the need for a tool-sharing platform. The positive feedback encouraged us to think beyond just tools, and we plan to extend the sharing feature to include books, toys, and other belongings as well!

















# **PROBLEM & PAIN POINTS**



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We have always been deeply passionate about tackling the pressing issue of climate change and promoting sustainability.

Observing skilled handymen struggling with scattered tools in their homes that end up in landfills, negatively impacting the plant's environment. This made us recognize the significance of resource efficiency.

The intersection of our concerns for these two issues ignited the idea to develop an app that could facilitate the utilization of seldom-used items, enabling people to save money and, most importantly, reduce unnecessary consumption and waste.

Our ultimate goal is to contribute to building a more sustainable and environmentally friendly world.

















# What is our Solution?

The 5 Miles App encourages resourcesharing, linking individuals with spare items to lend to those nearby who are in need. This saves individual's money, storage, space, and reduces waste production and disposal. Furthermore, it helps to enhance local bonds, ultimately creating a more resourceful and connected neighborhood.





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## Across the USA

Each individual user is the center of the 5 miles community, networking across the whole United States of America.





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# Introducing 5 Miles

## INTRODUCING 5 MILES - SHARING MADE SIMPLE: STRENGTHENING COMMUNITIES TOGETHER

## **BORROW FROM NEARBY OWNERS:**

By using 5 Miles, you can tap into a large community of amiable neighbors ready to share their tools, books, and toys. Whether you require a power drill for a home improvement project, seek an engaging novel to immerse yourself in, or wish to provide your kids with new toys to play with, you'll find a treasure trove of items available for borrowing right in your neighborhood.

# CONNECT WITH YOUR COMMUNITY:

With 5 Miles, neighbors come together in unprecedented ways. Easily communicate with lenders, coordinate pickups, and arrange item returns. Build friendships, cultivate trust, and foster a stronger, more connected neighborhood.





## **USER-FRIENDLY INTERFACE:**

Using 5 Miles is effortless! Our app features a streamlined, userfriendly interface crafted to elevate your borrowing experience. With just a few taps, you can easily discover a diverse selection of tools, books, and toys available for lending. The app's intuitive design ensures that even newcomers can dive right in and start borrowing with ease.





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# How Does it Work?





# MIT APP INVENTOR APPATHON 2023 **EXAMPLE 1 CONTRACTOR OF CONTACTOR OF CONTACTOR OF CONTACTOR OF CONTACTOR OF CON**

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STEP 1: SPLASH SCREEN You will be greeted by a splash screen with our logo on it.

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FIVE-MILES	

STEP 2: REGISTER If you don't have an account, you can register and enter some information.

STEP 3: LOG IN You will get a choice to log in with an existing account or sign up.

email	Log In
password	Log In or Sign Up

32%



by a home page with many options.

# **MIT APP INVENTOR APPATHON 2023** Instructions

# INFORMATION PT.1



**STEP 2: OPTIONS** You will get many choices to go to certain pages.



STEP 1: PRESS "INFORMATION" Press the "Information" button on the bottom of your screen.



STEP 3: TUTORIAL VIDEOS You can view tutorial videos of some tools after pressing "See Tutorial Videos".

> \$ 🗙 😤 91% 🗖 4:0 **Tutorial Videos**

Select an item below to view a tutorial on how to use it.

Back

Select

Drill

Lawnmower

**Circular Saw** 

High-Pressure Washer

Sewing Machine

Air Compressor

Paint Sprayer

Snow Blower

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tool, you can view the tutorial video.



# Instructions

# **INFORMATION PT.2**

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STEP 5: USER MANUAL FOR ITEMS Powered by ChatGPT, you can enter an item's name, and it will return an user manual for that item.	Screen1 About a Book Back Enter a name of a book to see what it is about. enter book name
Screen1 User Manual Back Enter a name of an item to see how to use and take care of it. enter item name Enter	Enter
	STEP 6: ABOUT A BOOK Similar to the user manual's, you of type a book's name to get a sume of it

STEP 7: TERMS & POLICIES You can view our terms & policies as well in the "Information" section.

#### **Terms of Use & Policies**

User Account and Information: - You must create a user account to use our app. - Ensure that all provided information is accurate, complete, and upto-date.

- You are responsible for maintaining the confidentiality of your account credentials.

- You must not share your account details with others.

Item Listings and Borrowing:

- Users can list items they are willing to lend to others. - Borrowers must follow the item lender's policies, such as the borrowing period and return conditions. - Borrowers should treat borrowed items with care and return them in the same condition as received.

Community Conduct:

- Respect other users and treat them with courtesy and consideration - Do not engage in any harmful, offensive, or discriminatory behavior.

- Report any inappropriate conduct or suspicious activity to the app administrators.

Privacy and Data Security:

- We collect and use user data in accordance with our Privacy Policy. - Your data is securely stored and will not be shared with third parties without your consent.

Liability and Responsibility:

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- We do not endorse or guarantee the condition or quality of the item listed by users.

- Users engage in transactions at their own risk. We are not responsible for any damages or losses resulting from lending or borrowing items.

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#### About Us

Welcome to 5 Miles, your go-to platform for a seamless tool-sharing experience! Our mission is to foster a vibrant community that empowers users to lend and borrow tools with ease, creating a collaborative and sustainable environment.

#### Our Story:

5 Miles was born out of a passion for enhancing resource-sharing within local neighborhoods. Our founders envisioned a world where individuals could access the tools they need without the burden of ownership. Inspired by the spirit of collaboration and a commitment to environmental sustainability, they embarked on a journey to build a platform that connects people in need with those willing to share.

#### Our Vision:

At 5 Miles, we envision a future where communities thrive through collective support and resourcefulness. Our vision is to create a toolsharing ecosystem that fosters trust, cooperation, and meaningful connections among users. By promoting the responsible and efficient use of tools, we strive to reduce waste and promote a greener planet.

#### Why Choose Us:

- User-Centric Approach: Our app is designed with you in mind. We prioritize user feedback and continuously improve the platform to cater to your needs.

- Safety and Security: Your safety is our top priority. We implement robust safety measures to ensure a secure environment for all users. - Community Building: We believe in the strength of community. Our platform encourages local connections and helps build stronger neighborhoods.

- Environmentally Conscious: By sharing tools, we reduce the demand for new ones, contributing to a more sustainable future.

How It Works:

STEP 8: ABOUT US In addition, you can also view the "About Us" page.

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# Instructions ITEM PAGES

## STEP 1: PRESS "ITEMS" On your homepage, press the "Items" icon to lead you to the Items page.





STEP 2: CHOOSE AN ITEM This page lets you choose items easily using a category dropdown and search.

## STEP 3: REQUEST/RETURN/CHAT Here, you can borrow, return, and chat with the lender.

**MIT APP INVENTOR APPATHON 2023** 

## ា Lawn Mower



Lender: Alex Jiang Lender Reputation: Trustworthy Status: Lend Address: 22514 IVERSON DR **GREAT MILLS MD** Policies: Please clean and take care of it while you have it. Request Item Return Item

Chat



Create Item
1. *Item: Item Name
2. *Input Image
Take Picture or Pick from gallery
3. *Status: Lend or Give Away
4. Policies: Input policies (Ex. Time due
5. *Category: All Items -
CREATE
STEP 4: LIST YOUR ITEM

List your item: choose to lend or give it away.

MAP PT.1

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View items near you (we added 2 for demo). The green marker is the address you inputted.

MAP PT.2

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#### STEP 5: SELECT DISTANCE You get to select a certain number Map Address: Crystal plaza, livingston, nj of miles to show the items within The map shows items available nearby within a certain number of miles. Select a distance below. that distance. Select a distance 🛇 🕏 💐 🖗 96% 🖬 12:37 PM 🖬 (i) 🖪 Map dress: Crystal plaza, livingston, nj lorham Park map shows items available nearby within a certain number of miles. ect a distance below. lect a distance Lawnmower $\bigcirc$ Select a distance Lender: Alex Jiang $\bigcirc$ 1 mile Lender Reputation: Trustworthy Status: Lend $\bigcirc$ Address: 483 S Livingston Ave, Livingston, NJ 5 miles Policies: Please clean and take care of it while you have it. $\bigcirc$ 10 miles Directions Pan to Current Location Back Home STEP 6: SEE ITEM INFO **Pan to Current Location** When you press on an item, you get to Back see the information about that item Home like the lender, address, etc.

STEP 7: PRESS "DIRECTIONS" If you want to view the route to that item's address, press the "directions" button.

Map ddress: Crystal plaza, livingston, nj The map shows items available nearby within a certain number of miles. elect a distance below.

Select a distance Florham Park

Lawnmower

Lender: Alex Jiang Lender Reputation: Trustworthy Status: Lend Address: 483 S Livingston Ave, Livingston, N Policies: Please clean and take care of it while w Directions

> Pan to Surrent Location Back

Home



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ı have it.



#### Head southeast

Turn left

Turn right onto West Northfield Road, CR 508

Turn left

Arrive at your destination, on the left

STEP 8: VIEW DIRECTIONS Now, you can view the route to the item along with directions of how to get there.



CHATS

STEP 1: PRESS "CHATS" On your homepage, press the "Chats" icon to lead you to the Chats page.



# 1 CHATS Alex Jiang Taliba Emília Nermin Perla Joyce Sondra Udo Aline Elma Kanon

STEP 2: SELECT A CHAT Leads you to one of your chats you have with your neighbors.

STEP 3: CHAT! Start talking! You can use this to arrange meetups to pickup items

<sup>1</sup> Alex Jiang

You: Hi!

Alex: hello

You: When do I have to return the item by?

Alex: in about 2 weeks would be fine

You: what about 3 weeks, I kind of need it for a bit longer

Alex: uh

Alex: sure thats alright

You: Thanks!

Message





Send





Lender: Alex Jiang Lender Reputation: Trustworthy Status: Lend Address: 22514 IVERSON DR **GREAT MILLS MD** Policies: Please clean and take care of it while you have it. Request Item Return Item Chat

### **ALTERNATIVE**

OR, you could go to an item page, and start chatting with them there.



# Instructions



STEP 1: PRESS "PROFILE" On your homepage, press the "Profile" icon to lead you to the Profile page.









**STEP 2: CHANGE PROFILE PICTURE** You get an option to take a photo or pick a photo from a gallery.

## **STEP 3: CHANGE ACCOUNT INFO IF** NECESSARY

You get the option to change any information about yourself using the edit button.

## STEP 4: VIEW YOUR ITEMS/ITEMS YOU'VE USED

You can also view your items and the ones you've shared from others from your profile.

# Technology TECHNOLOGIES USED:





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Using Chat GPT to create a quick description, provide instructions on how to use the item, and offer care tips.

Google Maps, GPS, and Navigation to track items within a certain number of miles.









Leveraging CloudDB and TinyDB to store information/data.







# Limitations

SOME LIMITATIONS MAY INCLUDE:



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Accidents can lead to item breakage, and unfortunately, not all users have good intentions; some may not return borrowed items. We could implement a user rating function for both borrower and loaner to encourge good behaviors and create a friendly community.







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# WHO HELPED?



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Dr. Yu Meng who teaches us how to use MIT App Inventor

Jessica's dad Jim Hao inspired us with the idea of this App











## Each of our parents has been a supportive presence





# THANK YOU







