



Presented By:

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# Express- Ops



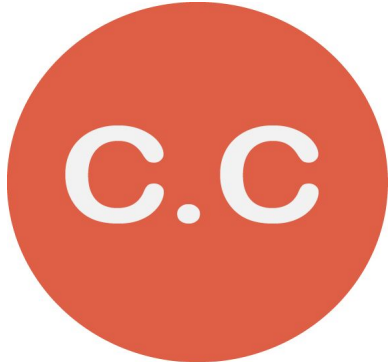
Navashree Singh

- 2nd Year in the College of Arts & Sciences
- Beginner Level CS



Parima Sahbai

- Class of 2018
- B.A. CS, pursuing MCS in CS
- Advanced Level CS



Caroline Chen

- 1st Year in the College of Arts & Sciences
- Beginner Level CS



Nathan Ohene

- 3rd Year in School of Engineering
- Beginner Level CS

# Problem

- ★ Running late for class?
- ★ Need your fix of caffeine to function for the day?
- ★ Want a cheaper alternative to expensive, in-store coffee?
- ★ Worried about your environmental impact from daily plastic, paper, and styrofoam use?

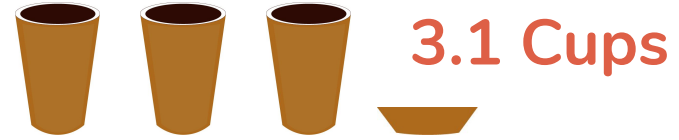


# Introducing: *Express-O*

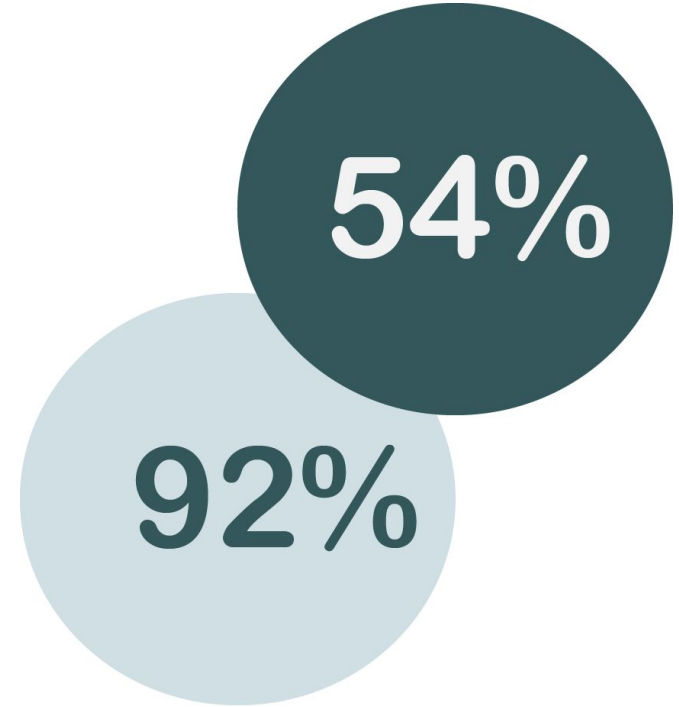


- ★ Pre-order customizable coffee on the mobile app
- ★ Coffee vending machines, stationed around campus, make and store your order
- ★ Coffee dispensed upon scanning QR code
- ★ Discount for bringing your own cup or mug!
- ★ Quick in, quick out

## Fun Facts:



- **54%** of Americans over the age of 18 drink coffee every day
- Caffeine, in any form, was consumed by **92%** of college students in the past year.
- Most common form of caffeine was **coffee**.
- Americans drink an average of **3.1 cups** of coffee a day with the average size of a cup being 9 oz.



More than **6.9 billion tons of plastic waste** exists, 79% in landfills or the environment.



A disposable cup a day creates **23 pounds of waste** per year.

**99% of paper cups are unrecyclable** because of the plastic in their inner lining.

Each paper cup manufactured is responsible for **0.24 pounds of CO2 emissions.**

# Bring Your Own Mug!

Promote environmental sustainability in your day-to-day life!

- Bringing your own mug or reusable cup will save you extra money at the coffee dispenser



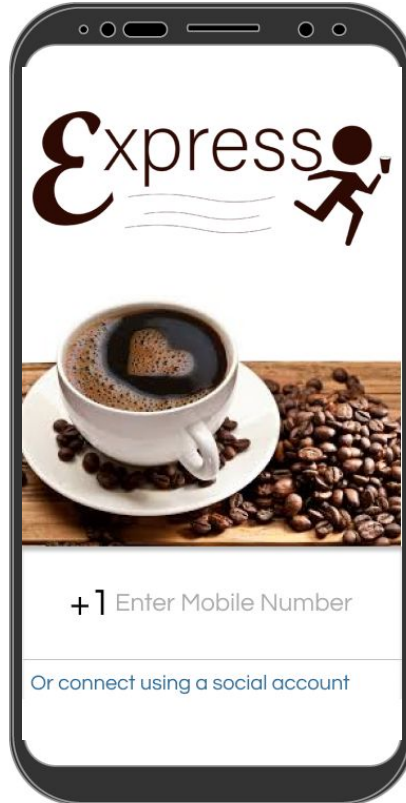
Artist Credit:

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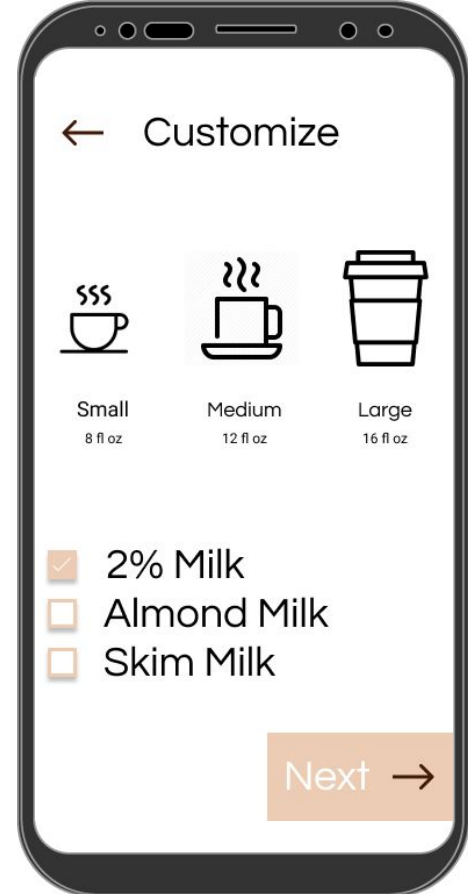
# **Our Approach**



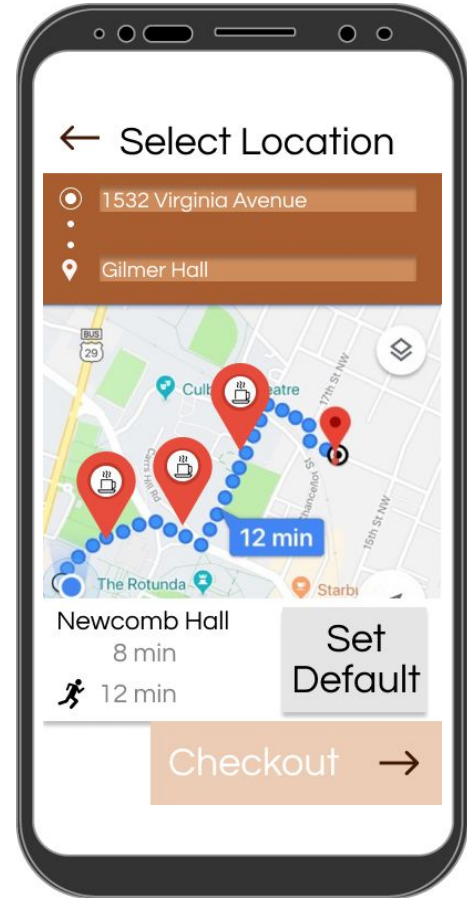
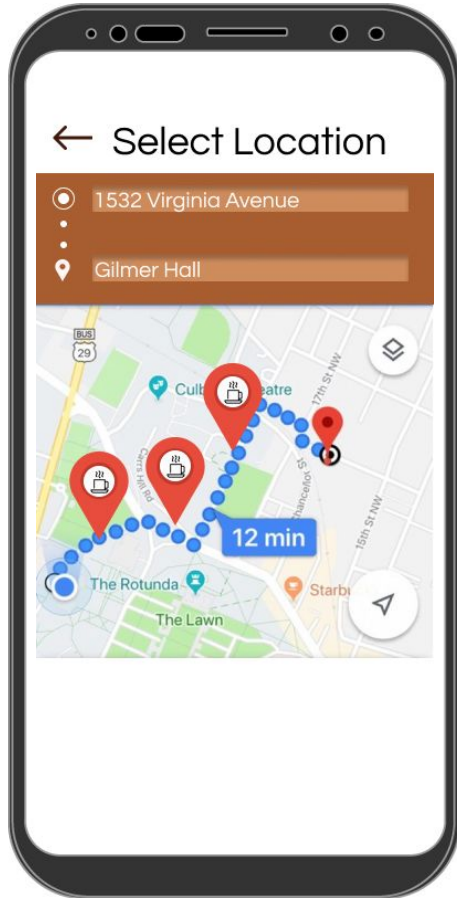
# UI/UX Demo



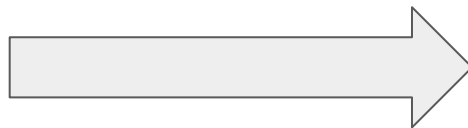
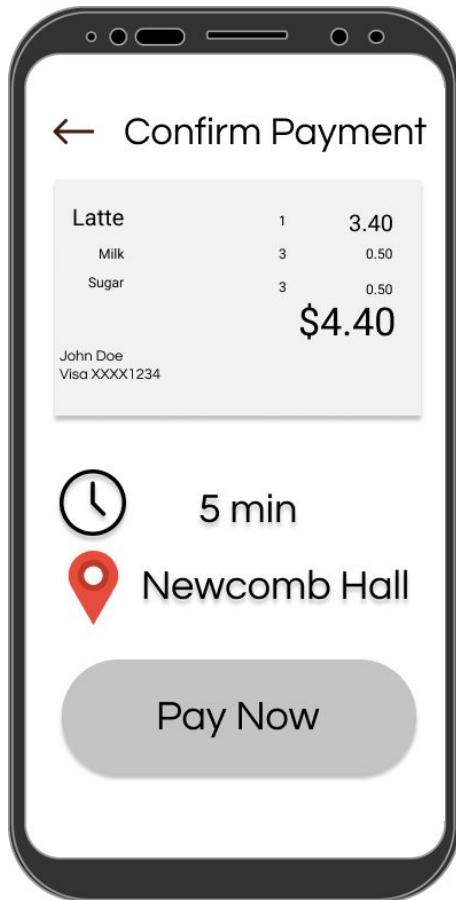
# Drink Selection



# Selecting Pick-Up Location



# Payment: Scanning QR Code



# App Demo

# Reflection

## 1. Who will this hack impact?

- Small scale: UVA student's day to day lives
- Large scale: Reduction in plastic/paper waste on UVA campus

## 2. How is the project innovative?

- Streamlines daily activities with convenient, advanced technology while incorporating environmental sustainability in an efficient, easy way.

## 3. What frameworks and tools were used to build the project?

- Adobe Illustrator, Android Studio, Figma

# The future of Express-o

4. How can this project extend into the future and beyond our hackathon?

- Large scale expansion, from campus-wide to city-wide, in order to cut down on waste
- Partner with large coffee companies to give users a recognizable brand
- Offer a larger variety of coffee brands, and types
- Add a scheduling mechanism so users can pick up drinks ahead of time

**Thank You**