

Final Usability Testing

We conducted usability tests with three students who fit the target user profile. To ensure alignment with our criteria, a screening questionnaire (Figure 11) was used, confirming that participants were:

- Aged between 18-25
- Enrolled in a university program
- Living away from home, preferably on campus.

Age criteria:

1. How old are you?

a. <18 **Terminate**

b. >=25 Continue

Device usage to access application:

2. Do you use a Smartphone?

a. No **Terminate**

b. Yes Continue

General:

3. Are you currently enrolled in an academic program at an institution?

a. No **Terminate**

b. Yes Continue

4. How well do you speak English?

a. Not at all **Terminate**

b. Not well **Terminate**

c. Well Continue

d. Very Well Continue

5. How many hours per week do you use your phone, not including email?

a. Less than an hour **Terminate**

b. Between 1 and 5 hours Continue

c. Between 5 and 10 hours Continue

d. More than 10 hours Continue

6. Do you stay away from home?

a. No **Terminate**

b. Yes Continue

Figure 11: An image of the screener forwarded to the participants before we recruited them for the test

Of the 5 people whose responses to the Screener matched our desired profile, we recruited the following 3 participants-

#	Age	Gender	Self reflection on health-consciousness	Test Time
P1	23	Female	“Negligent towards health”	14 minutes
P2	19	Male	“Careful, but too lazy”	22 minutes
P3	21	Male	“Healthy externally, not internally”	16 minutes

In order to cover all the key features we stated above, in the Usability Test, we came up with a Task List consisting of 8 key tasks along with a few subtasks (Figure 12) . The tasks were made open-ended and simple to understand in order to observe how the participants behave on the application.

Context: The current day is December 4th, and you are a College Student staying away from home, residing within the campus. You have been using Eatopia for a few months now, and are just performing your regular activities on the page.

Tasks:

1. [Homescreen] How many cups have you consumed and logged in for the current day?
2. Can you check the number of cups you have consumed on the previous day (December 3rd)?
3. You have had a cup of banana slices an hour ago.
 - a. Add a new entry log to upload it.
 - b. After the entry is successfully logged, find how many coins you have earned with this entry.
4. Go to the store page and add 1 Pineapple and 1 Avocado to the cart.
 - a. Check how many coins would be spent to purchase the items
 - b. Check how many coins you have left to use for orders.
5. Navigate to the Social Page and check the Dual statistics with Xavier
 - a. Find out the dates (and period) of the challenge between both
 - b. What are the current streaks of both you and Xavier?
6. Check the UMD Monthly League leaderboard
 - a. What was your Rank in the cup-score category for November 2022?
 - b. What was your rank for the Daily Streak criteria for the same month?
7. Check the Trends of your Cups Quantity for the week Nov 28 - Dec 4
 - a. Compare the cup quantity with Streak for the same week.
 - b. View the monthly statistics of how many cups you have consumed.
8. Check the Fruits & Veggies statistics on the Trends page
 - a. How many cups were consumed on Thursday during the week Nov 28 - Dec 4?
 - b. How many of them were fruits?
 - c. During that week, how many fruits and vegetables did you have in total? (do not count from graph)

Figure 12: A screenshot of our Task List which was used for the Usability Test