

# PACT Analysis

PACT stands for People, Actions, Contexts, and Technology. In our analysis, these categories are fulfilled in order to develop a functional and user centered product.

# People

This app is catered towards adults. Due to the growing amount of health conditions, the elderly maybe susceptible to higher probabilities of forgetting to take their medications. Simultaneously, young adults who are more aware of health trends, supplements and diets. Additionally, parents who have children with health conditions such as: asthma or anaphylactic allergies.

\*Areas highlighted in blue are updated in accordance to our insights from user testing

# Activities

Goal: allow those with many medications or supplements to keep track of their routine. Users can manually input or scan their medication (with the barcode scanner) to import the data of their medication. Inputting information will allow users to set notifications to remind them of when to take their medicine, how many tablets there are, and when the medication expires. [Users will also have the ability to manually input reminders for doctor appointments.](#)

The app will allow users to keep track of both medicines and supplements, that they consume daily, through notifications and alarms. When the user has taken their medication, they can check off or confirm what they have taken.

The checklist can be organized in a timeline to give the users a visual representation of what medications are scheduled for the designated day. Users can learn more about what medication or supplements they are taking by accessing the search bar for an online database. To keep their information private, they will have to create a login and can further protect it with two-factor authentication. Users can provide access to their account via a secondary account for caregivers.

# Contexts

The app will be used in enclosed environments such as at home or at work, however users will also use the app in outside environments. Due to these environments, factors such as lighting and noise may interfere with the overall user experience.

Given the sensitive nature of healthcare records and data, some users may be concerned with the security of privacy. This app will be designed to consider privacy while allowing users to share and hide information from third parties, such as caregivers.

Internet or data connection will be required to access the medicinal database, however the user will be able to edit their data while offline, due to the varying locations where internet connection may be unavailable.

# Technology

This app will contain notifications, user profiles, privacy authentication, a medicine or supplement archive, accessibility features, online medicine database search, and a barcode scanner. This app will be designed to consider privacy with one-time passwords, and face or touch ID while allowing users to share and remove information with third parties, such as caregivers. They will also have the ability to utilize accessibility functions such as font size and light or dark modes to ensure readability.

Users will be able to add and manage medicine or supplement items to their personal digital medicine cabinet as well as set push notifications for when they need to take each medicine. Medication information can be manually

inputted by the user or automatically input via a barcode camera scan of the item. [Users will have the ability to manually input scheduled reminders for doctor appointments.](#) Additionally, an online database search function will be available for users to inquire about their medicines or supplements.

Internet or data connection will be required to access the medicine database as it will be stored on an external server. However, the user will be able to manage their alarms or notifications and check their medicine offline. Offline will ensure that the user will always receive notifications and have the flexibility of planning their routines on the go.