

Requirements	Rationale	Priorities	Content	System Function
Onboarding	For first time UX, pairing with mask, personalization of experience	Must	Carousel	Shows the user how to use the mask and app
Log in/sign up	Gives access to personal mask information and data	Must	Page with input fields/questions and/or touch/face ID prompt	Protects the users sensitive data
Track Exposure (How to show data?)	Allows users to see and recall exposure patterns	Must	Name of particle/particle type and date, time, location	Allows users to see exposure for personal or health provider uses
Track filter status	Ensures filters are changed on time to maintain mask effectiveness	Must	filter status, (e.x. green when good and red for when they need to change)	Lets users know when filters need to be changed
Individual Profiles	Organizes information based on individual devices or people	Must	Information organized into cards	Information organized into cards Allows the user to create multiple accounts
Emergency contact setup	Ensures the app contacts desired parties when distress signal activated	Must	Name, address, phone number(s) of contacts, email	Incase of emergency, these contacts will be notified of user's status
Hot spots of particles	Allows the user to prepare to enter those areas or avoid them if possible	Must	Data visualization, map	Stores information and presents it visually.
Track battery status	Know when your mask needs a charge	Must	Status bar with percentage, graph of energy usage	Lets users know when mask needs charging. Push notifications.
Share information to third parties	Personal information can be saved as a pdf and sent to third parties such as health care providers	Should	List of possible apps such as Gmail, Outlook, WhatsApp, etc.	Provide data to health care providers to analyze alongside symptom flare-ups to find patterns or identify triggers
Track breaths per minute	Track intensity of activities and helps identify patterns	Must	Line chart showing hourly average by default, drop down menu options to sort by day, week, month	Line chart showing hourly average by default, drop down menu options to sort by day, week, month
Notification of specific particle exposure	Alerts users and recommends follow-up procedures	Must	Name of particle and recommended procedures based on external organizations (e.g. Health Canada)	Offer knowledge on degree of exposure and next steps
Notification history section	Stay updated on your health and environment	Should	Notification panel (FB style maybe)	Visual push notifications on phone + vibration. Outputs information.
Help center/FAQ	Serves as an area to answer the users questions or inquiries about the application	Should	Answers to common user questions, Privacy, Terms and Conditions	AI chat bot Stores information
Settings	Provides accessibility functions and the general programming of your account	Must	Light/dark options, emergency contact edit, profile edit, notification settings	Allows customized experience
Find/locate mask	If you have lost your mask	Could	Location of each mask	Use loud vibrations to create sound
Distance-based reminders	Reminds the user to bring the mask before exiting home	Could	Push notification	Prevents having to go back to get mask when it's required or risk being exposed
Adding other devices (yours or others')	Allows users to connect other masks to the same app. This can be an extra mask or another person you may wish to monitor (e.x. your children)	Must	bluetooth connecting onbaording for adding a new device ontop profile	Connect multiple masks to the same app and account
Language/Font Size	Provides personalized accessibility features to the user	Could	Choices for preferred language or font, Dropdowns, Toggle switches	Changes appearence of information displayed Dropdown perhaps
Cleaning Prompt	Reminds user to clean mask before reuse	Could	Instructions how to clean	Ensures that safety of mask is not compromised