Draft Project Scope Statement Template

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Subject: Gen Secure

Project Overview

Gen Secure is an all-in-one, easy-to-use, graphical security device. It includes basic functionalities including allowing the user to arm the space and alert for any unknown presence (through email). The product also has face recognition technology that can track when the user enters the space and immediately disarm the system. Along with this, it has a voice sensor present inside the space (like a house) that is triggered by the voice "Hi Gen". It acts like an AI assistant that can search the request of the user on the web and respond with answers (like the latest news, weather forecast etc.). People can also leave a voice message from the outside for the owner by interacting with the graphical interface. Recordings, when the system is armed, are also saved locally so that the user can see them later.
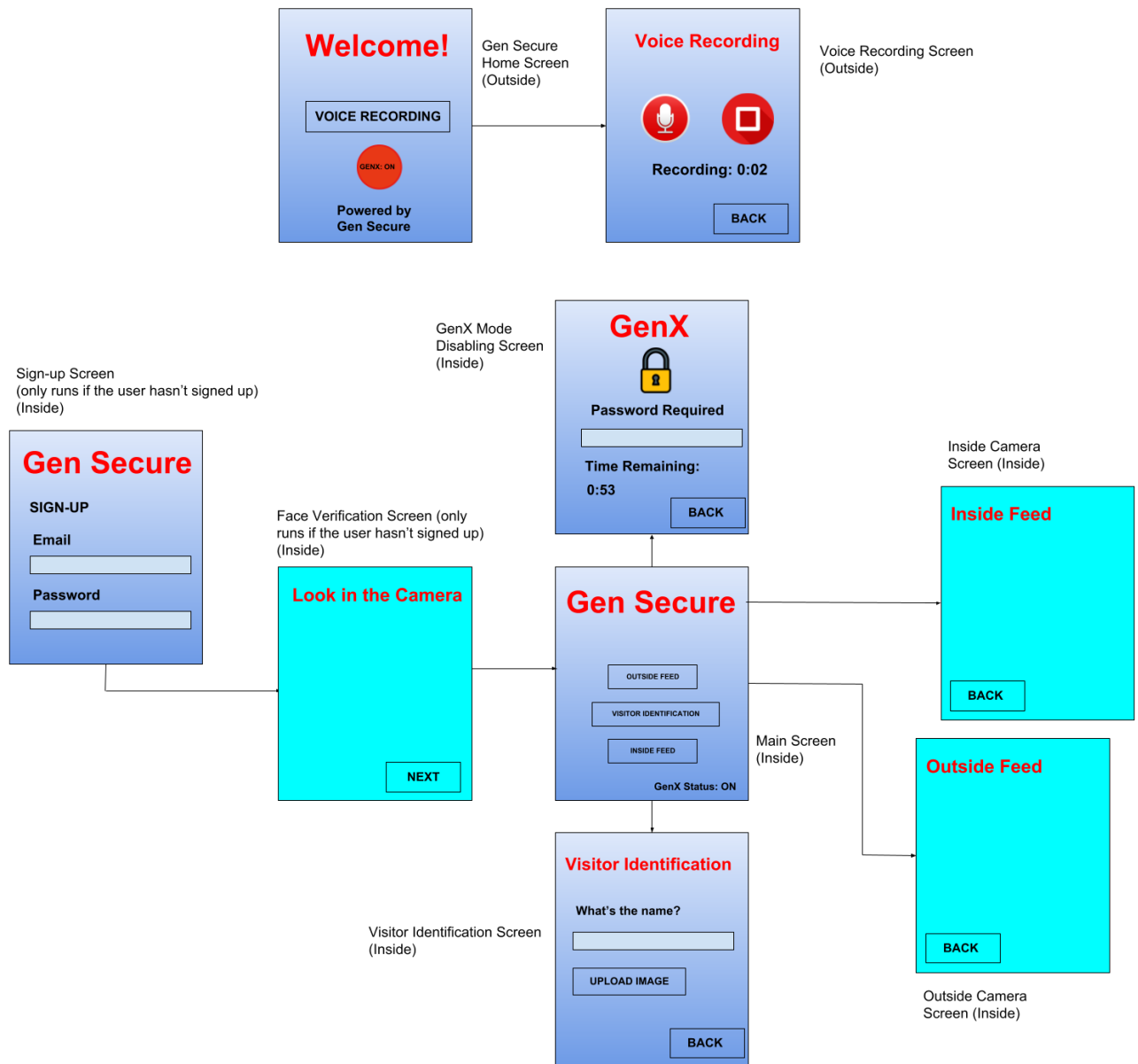
Users

Homeowners: The main use of this product is for homeowners. They would be able to use the software to ensure safety within the home. Additionally, they could use it to provide morning news while getting ready for work (older owners). Homeowners could also see the voicemails left, among other uses.

Office and Private Area Administration: With the presence of Gen Secure, administrators like bank branch managers would be given the satisfaction that their space is protected at all times when the office is locked.

Product Features

Program Mockup Sketches:
https://docs.google.com/drawings/d/19nn2lmGIu29rxLYDZaSbXpHOybVLRd0Xr5yXSKkLj-I/edit?usp=sharing

Welcome!

VOICE RECORDING

GENX: ON

Powered by
Gen Secure

Gen Secure
Home Screen
(Outside)

Voice Recording

Recording: 0:02

BACK

Voice Recording Screen
(Outside)

GenX Mode
Disabling Screen
(Inside)

GenX

Password Required

Time Remaining:
0:53

BACK

Sign-up Screen
(only runs if the user hasn't signed up)
(Inside)

Gen Secure

SIGN-UP

Email

Password

Face Verification Screen (only
runs if the user hasn't signed up)
(Inside)

Look in the Camera

NEXT

Gen Secure

OUTSIDE FEED

VISITOR IDENTIFICATION

INSIDE FEED

GenX Status: ON

Main Screen
(Inside)

Inside Camera
Screen (Inside)

Inside Feed

BACK

Outside Feed

BACK

Outside Camera
Screen (Inside)

Visitor Identification

What's the name?

UPLOAD IMAGE

BACK

Visitor Identification Screen
(Inside)

Feature List

(P1) Inside Camera Screen (Inside Screen)
- **(P1) Camera Display: Have the camera working and capture the feed for the inside camera.**
- **(P1) Footage Saving: Save the last 30 seconds on the camera to an mp4 file based on a hotkey. It would be labelled as recording1, recording2 etc.**
- **(P2) Back Button: Sends the user back to the main screen.**

(P1) Outside Camera Screen (Outside Screen)
- **(P1) Camera Display: Have the camera working and capture the feed for the outside camera.**
- **(P1) Footage Saving: Save the last 30 seconds on the camera to an mp4 file based on a hotkey. It would be labelled as recording1, recording2 etc.**
- **(P2) Back Button: Sends the user back to the main screen.**

(P2) Main Screen (Inside Screen)
- **(P2) Inside Feed Button: Directs the user to the camera screen that allows them to see the current video feed on entry in the space.**
- **(P2) Outside Feed Button: Directs the user to the camera screen that allows them to see the current video feed on the outside of the space.**
- **(P6) Visitor Identification Button- Directs the user to the visitor identification screen.**
- **(P4) GenX Status Display: Displays the current status of the GenX mode as ON or OFF.**

(P3) Sign-up Screen (Inside Screen)
- **(P3) Sign-up functionality: The sign-up page loads, with the ability of the user to type their email in and create a password. Error checks such as @gmail.com not being included, while inputting the email are also accounted for.**

(P3) Face Verification Screen (Inside Screen)
- **(P3) User Verification: On sign-up, the user is asked to look at the camera, and their face is captured and saved locally. This would allow face verification to take place when needed.**
- **(P3) Next Button: Directs the user to the main screen.**

(P4) GenX Mode Disabling Screen (Inside Screen) NOTE: This page loads up if there is a face detected inside the space when GenX is ON

- **(P4) Password: Asks the user to enter their password, to disable GenX Mode. If the password is correctly typed, then GenX is disabled.**
- **(P4) Timer: Starts a 1-minute timer, when this screen opens. After 1 minute, if the password isn't inputted, the recording of the last 30 seconds would be captured locally. The user is also alerted through email that some presence is there within the space.**
- **(P4) Face Disabling: Note that if the face matches that of the owner, then this page doesn't open and GenX is automatically disarmed.**

(P4) Gen Secure Home Screen (Outside Screen)

- **(P5) Voice Recording Button: Directs the user to the voice recording screen.**
- **(P4) GenX Switch Mode Button: Allows the user to switch GenX ON or OFF. Note that you have to authenticate yourself using the password before you are allowed to switch.**

(P5) Voice Detection (Inside)

- **(P5) AI Assistant: Like an AI assistant, Gen Secure can recognize the voice and perform tasks such as playing the latest news, telling the weather forecast etc. Note that it is triggered by a voice saying "Hi Gen". This functionality works for all modes. Additionally, the user also has the ability to switch GenX ON or OFF.**

(P5) Voice Recording Screen (Outside Screen)

- **(P5) Play Button: Start the voice recording.**
- **(P5) Stop Button: Stop the voice recording. Once this button is pressed, the recording is saved locally.**
- **(P5) Back Button: Sends the user back to the home screen**

(P6) Visitor Identification Screen (Inside Screen)

- **(P6) Type Name: The owner types the person's name, who they are adding to identify, within the textbox.**
- **(P6) Upload Image: The owner uploads the person's image they are trying to identify so that the program can detect them.**
- **(P6) Back Button: Sends the user back to the main screen.**

(P6) Voice Announcements (Inside)

- **(P6) Face Detection: If someone is outside, their name is announced if they are known. Otherwise, it's said that someone unknown is outside.**

Version Guide

Version 1

Inside Camera Screen
- Camera Display
- Footage Saving

Outside Camera Screen
- Camera Display
- FootageSaving

Version 2

Inside Camera Screen
- Back Button

Outside Camera Screen
- Back Button

Main Screen
- Inside Feed Button
- Outside Feed Button

Version 3

Sign-up Screen
- Sign-up functionality

Face Verification Screen
- User Verification
- Next Button

Version 4

GenX Mode Disabling Screen
- Password
- Timer
- Face Disabling

Gen Secure Home Screen
- ● GenX Switch Mode Button

Main Screen
- ● GenX Status Display

Version 5

Gen Secure Home Screen
- ● Voice Recording Button

Voice Detection
- ● AI Assistant

Voice Recording Screen
- ● Play Button
- ● Stop Button
- ● Back Button

Version 6

Main Screen
- ● Visitor Identification Button

Visitor Identification Screen
- ● Type Name
- ● Upload Image
- ● Back Button

Voice Announcements
- ● Face Detection

Schedule Milestones

Example: Basic schedule range is expected to be:

Version 1	May. 16 - May 18
Camera Displays	May 16-17
Footages Saving	May 18
Version 2	May 19
Inside Feed Button	May 19
Outside Feed Button	May 19
Back Buttons	May 19
Version 3	May 20 - May 23
Sign-up Functionality	May 20
User Verification	May 21 - May 23
Next Button	May 23
Version 4	May 24 - May 25
Password	May 24
Timer	May 24
Face Disabling	May 25
GenX Status Display	May 25
GenX Switch Mode Button	May 25
Version 5	May 26 - May 29
Voice Recording Button	May 26
AI Assistant	May 26 - May 28
Play Button	May 29
Stop Button	May 29
Back Button	May 29
Version 6	May 29 - June 1
Visitor Identification Button	May 29
Type Name	May 29 - May 30
Upload Image	May 29 - May 30
Back Button	May 31
Face Detection	May 31 - June 1