REQUIREMENTS SPECIFICATION

RemindMe
(An App for Abuse Victims)

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Executive Summary

RemindMe is an Android mobile application that is meant to be disguised as a way to organize the user's life by creating a list of items and/or tasks that need to be completed in the the form of a checklist. The true meaning and function of this Android mobile application, is to serve as a tool for victims of abuse to take control of their own lives and begin their journey towards becoming survivors of abuse.
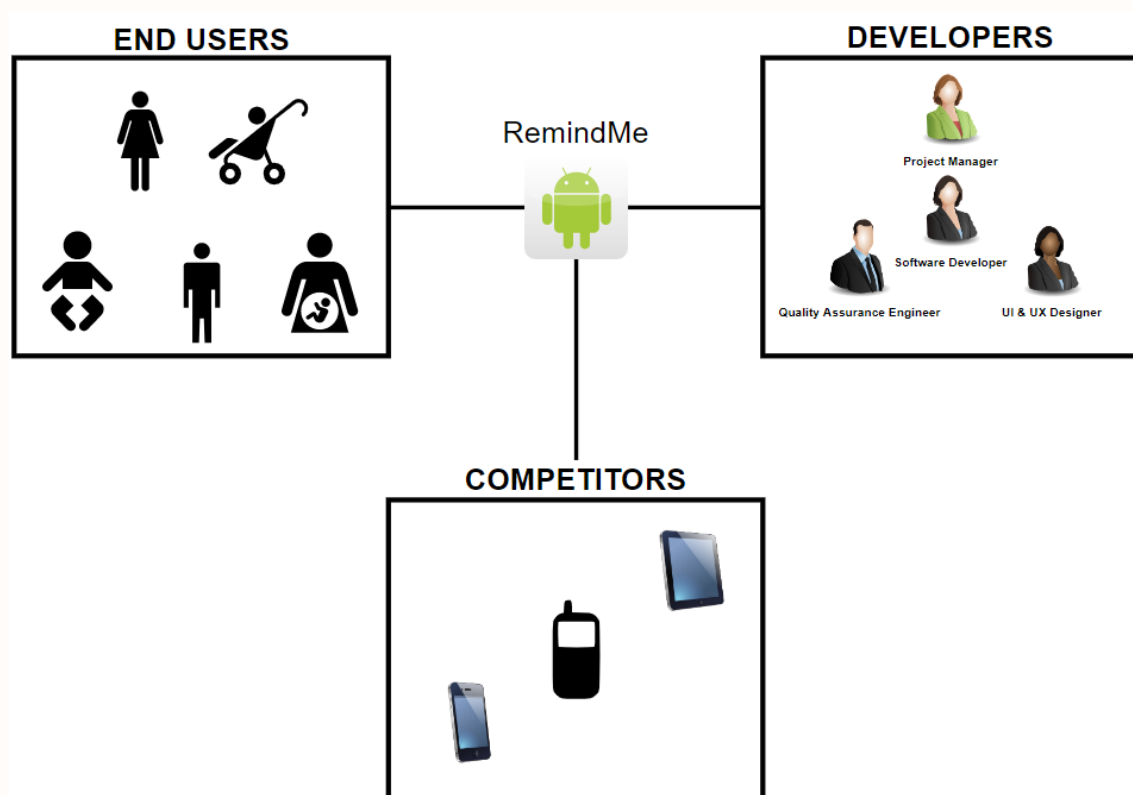
According to _Reach, Beyond Domestic Violence_, there are six different types of abuse: physical abuse, sexual abuse, verbal/emotional abuse, mental/psychological abuse, financial/economic abuse, and cultural/identity abuse. Each type of abuse can come with many behaviors that are often escalated over time. As the abuse escalates over time, the abuser gains more control over the victim, causing the victim to feel trapped and helpless. According to _Shelter House's Domestic Violence Statistics_, the majority of domestic violence cases have not/will never be reported to the police. Some reasons may be due to the fact that the abuser can become more violent, there is a lack of a support system, the fear of losing financial support or possibly facing homelessness, the lack of knowledge of existing support systems outside of family and friends, etc. RemindMe's goal is to give abuse victims the power, knowledge, and confidence by providing external resources to get support nearby, understanding the severity of their abuse, the ability to document abusive events, and plan their path to survival.

This document is meant to serve as an overview of this entire Android mobile application where we will discuss the stakeholders and their functions, the goals and expectations we have set in order for the application to be successful, the application's expected usage, and the use cases that go along with the features. The goals and expectations of this application are set to ensure that when the application is released into a testing environment, there will be little to no issues and/or changes which will also lead to a more successful launch of the application in a real world environment.

As a victim of abuse, it is not always easy to reach out for help or report an abuser to the authorities. RemindMe will provide support and education to victims by giving them the power to document their own abuse undetected and gain access to external support systems that surround them. This application is expected to aid in the attempt to increase the number of survivors by giving them the power and privacy that they need.

Stakeholder Model

A stakeholder is any internal or external person of interest, whose role will have an affect on the outcome of our project. Internal stakeholders, such as developers, have a direct association to the project. While external stakeholders, like end users and competitors, do not have a direct association but are affected by the outcomes of the project. Our requirements describe the stakeholders by providing a model that categorizes them by specific roles and contributions. Developers are responsible for implementing the required features to bring the concept into an accessible application. This includes a project manager, software developers, UI/UX designers, and quality assurance engineers. End users will be using our application and be able to give feedback through comments and reviews. This will allow us to improve our product and meet the exact needs of the end users. Competitors are applications that have similar services that will be examined as a marketing strategy to help our product stand out.

Stakeholders Roles

Developers

Role	**Project Manager**
Role description	The project manager foresees the completion of set tasks needed to complete the project effectively.
Expertise	Planning, organization, delegation, supervision, and motivation.
Responsibilities	Planning and directing through every step of the project to ensure tasks are completed on time.
Deliverables	These are the internal deliverables that are submitted to the team members: initial design, time-tracking report, project budget report, and progress report. The external deliverables that are delivered to stakeholders outside the company include: progress report, initial design, final design, and the final product.

Role	**Software Developer**
Role description	Software developers identify user needs, build programs, test out new software, and make improvements.
Expertise	Some develop new applications for mobile or desktop use, while others build underlying operating systems.
Responsibilities	Design, program, build, deploy, and maintain software using a variety of tools and skills. They also help build software systems that power networks and devices, and ensure that those systems remain functional.
Deliverables	Deliverables could be a report, document, software product, server upgrade, or any other building block of an overall project. A deliverable might consist of many smaller deliverables.

Role	UI & UX Designer
Role description	The UI & UX Designer is responsible for making the product's interface effective in its interactions between the user and application while providing a positive and convenient experience.
Expertise	Artistic, innovative, visual design, behavior analysis, and prototyping.
Responsibilities	Understand how the aspects in the design affect the users demands and expectations of the product. Create dynamic and interactive prototyping based on user behavior.
Deliverables	Ideation: Sketching, UX/UI: Wireframing, UI design: Visualization (Mockups), Pre-development stage: Slicing **SOURCE LINK:** https://mobidev.biz/blog/ui-ux-design-stages-deliverables-checklist

Role	Quality Assurance Engineer
Role description	The Quality Assurance Engineer is responsible for testing the program to find and fix bugs before the program's launch.
Expertise	Problem-solving and attention to detail
Responsibilities	Ensuring that the program runs smoothly by running tests and fixing bugs. Finding any problems with the User Interface. Overall, ensure the program is ready to launch, and the user will have a good experience.
Deliverables	Solutions to any bugs to ensure that the development team has the resources they need to make the program and the user experience better.

End Users

Role	Customer/Users
Role description	Users are people who are experiencing any level of abuse and are seeking help.
Responsibilities	Use the application as a means of receiving help or documenting abuse.
Deliverables	Feedback from the user will help developers make any necessary changes to the application in order to better the user's experience.

Competitors

| Role	Competitor
Description	Apps that have similar functionalities and services, such as Docusafe and MyPlan.
Responsibilities	Offer resources and features for the end users to document abuse.
Deliverables	Improve upon some of their key functionality

Goal Model

This diagram is intended to help us plan and execute our goals for this application. Visualizing our goals will provide us with a path to our end goal and will help us plan accordingly along the way. Showing the connections between them will ensure that we stay on track and can be used as a reference at a later time. Establishing goals is a necessary and important part of developing and designing our application. Our primary goal is to design a software that will provide support for victims of abuse by allowing them to document abusive events as well as give them access to external resources. Part of our primary goal is to disguise the application to look like a reminder app in order to make the app discrete and ensure the safety of the user. Our primary goal can be divided into three different categories: Usage, Business, and System goals. For each category, we define below what it means for our application.

1. Usage: Goals related to how the program will function and how the user will be interacting with it
2. Business: Goals related to strategy as developers that directly impact the application
3. System: Goals related to characteristics of the software and the design of the system
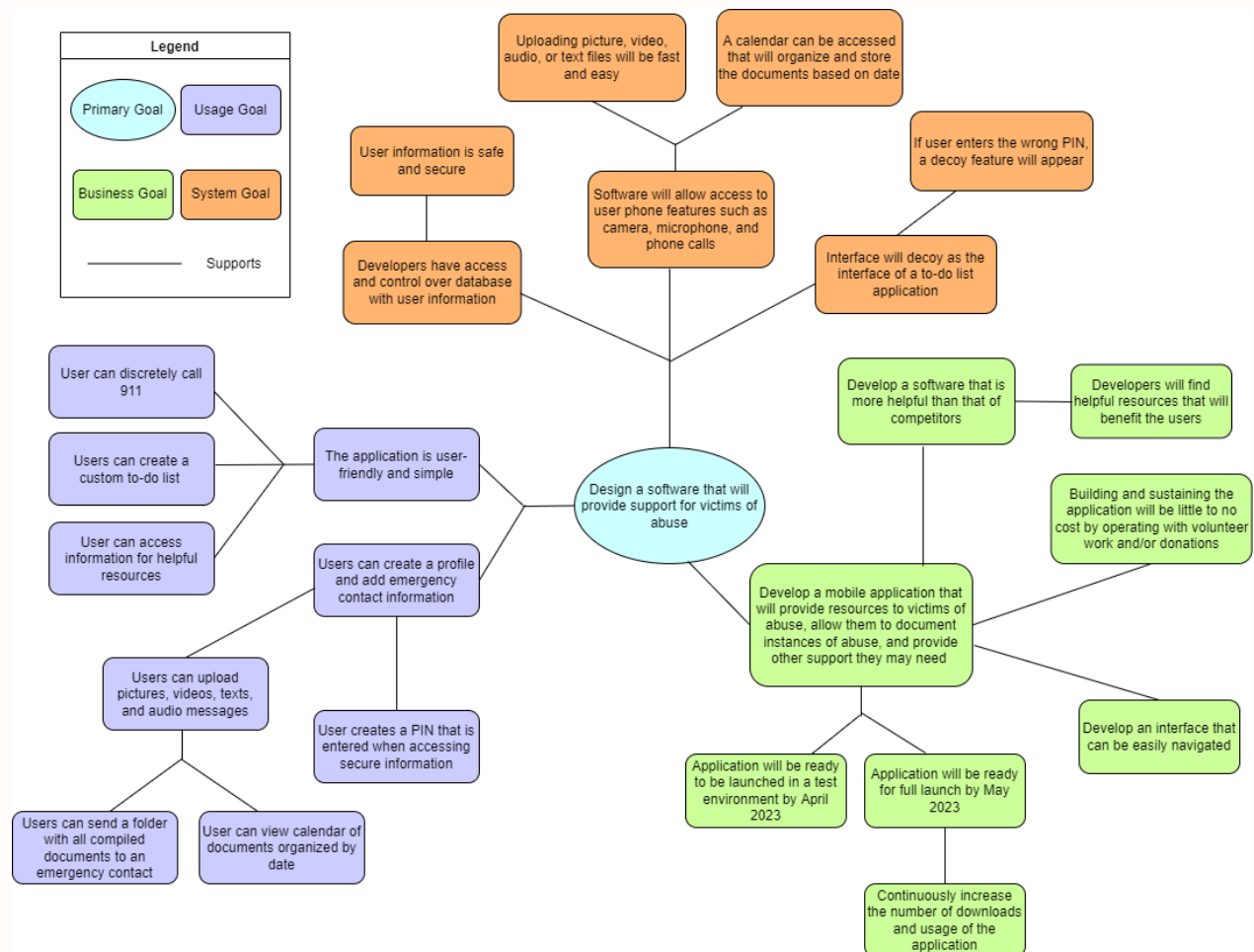
System Vision

The System Vision diagram represents how all of the stakeholders will be involved with the system and how the system will respond in return. It is the developer's responsibility to establish and maintain the whole system. Our system will provide a user-friendly interface that is disguised as a "To-do List" for all users and customers. The system will provide a quick user-guide for first-time users, and also display disguised check-in notifications as "Reminders" of support. Users will be able to use the system to document logs, share documented information one-time privately, and have immediate access to resources they might need. Users will also have the option to allow the system to track their current location and/or store their last location. The system will have a dummy to-do list display if someone other than the user attempts to login with an incorrect password, and it will have an automatic system time-out if there is no interaction from the user within 30 seconds.
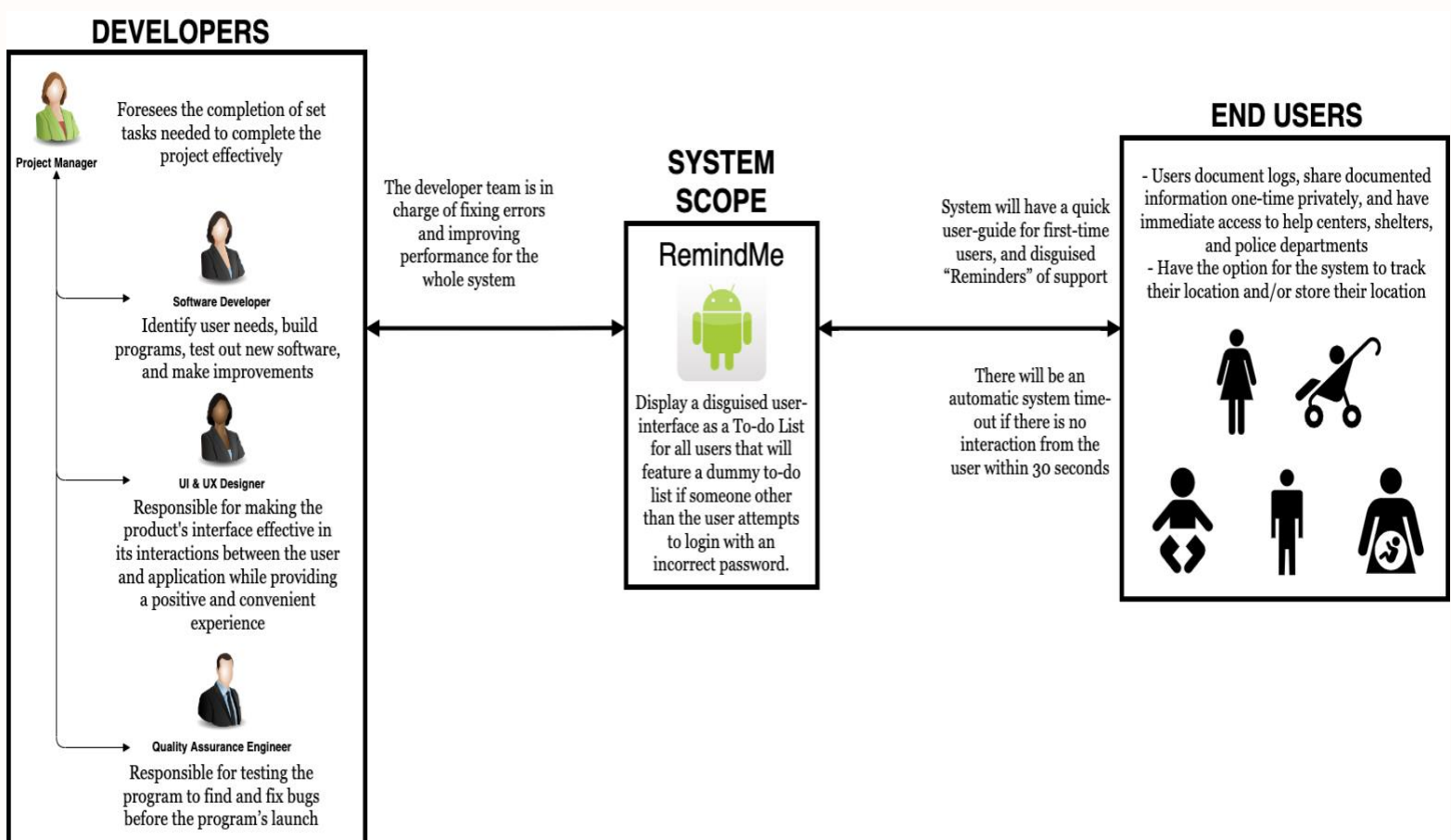
Usage Model

The usage model represents data about the user (victim) goals, and the conditions in which they use the software and how they use it. The model also includes all relevant qualities of the software usage factors, to an extent that recognizes the software benefits to the user. The usage model below will illustrate how the end user, software, and developers interact with one another. The first interaction between the victim and our application occurs upon signing up. The software will provide the victim with a user guide that walks them through the steps of how to use the app beneficially. The victim can use the Disguised App layer to create a custom to-do list and receive corresponding reminder notifications. In order to access the hidden Abuse Victims App layer, the victim must create a secure PIN that will be linked to their profile information. This will give them permission to the rest of the usage factors modeled within the Abuse Victims App. In the case of a user inputting an invalid PIN, a trigger sets off the decoy interface. The developers will be responsible for managing the users, database, fixing errors, and making updates while improving the performance of the system.
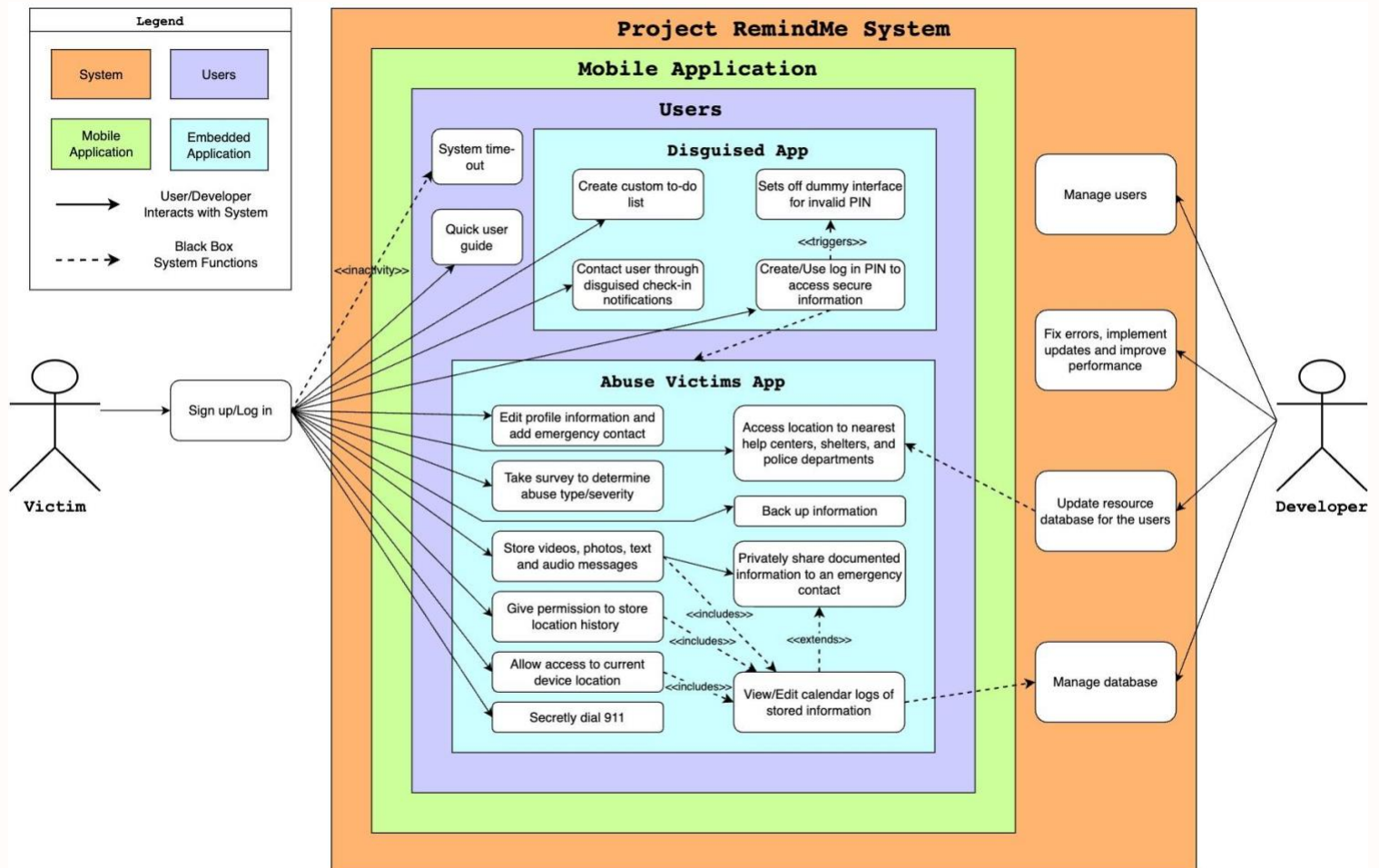
Use Cases

Use Case #1	Disguised App Name	
Goal in Context	The application's name will not raise alarms to an abuser who checks the user's downloading history	
Scope and level	Strategic & Primary Task	
Preconditions	User will need an android phone with Google Play Store	
Success End Condition	Anyone that is not the user will not question the application's name based off of the Google Play Store history download	
Failed End Condition	Low download numbers due to the application's name being too unrecognizable	
Primary, Secondary Actors	Primary: Users Secondary: Google Play Store	
Trigger	The user can search for the application on Google Play Store by it's name	
Description	**Step**	**Action**
	1	User opens Google Play Store
	2	User searches for the application name
	3	User downloads the application
	4	User's Google Play Store download and search history does not raise suspicions towards the abuser
Extension	**Step**	**Branching Action**
	2a	The name of the application will have to be known by word of mouth or by searching keywords that are in the applications description
Sub-Variations		**Branching Action**

	None
Related Information	*RemindMe*
Priority	The name of the application is critical, as the entire purpose of the application is to be disguised
Performance	2 to 3 minutes for the user to search for and download the application.
Frequency	Name of the application will remain the same throughout its lifetime
Channels to Actors	N/A
Open Issues	None
Due Date	Process already completed
…any other management info	None
Superordinates	None
Subordinates	None

Use Case #2	Disguised App Display
Goal in Context	The application's home screen will be disguised as a regular To-Do List/Task Manager and require a password to have access
Scope and level	Strategic & Primary Task
Preconditions	User will need to search for the app on their device
Success End Condition	Visibly, the app will be displayed and perceived as an application used to create and manage To-Do lists and does not raise suspicions of the abuser
Failed End Condition	The app is easily recognized as an app used to help abuse victims

Primary, Secondary Actors	Primary: Users Secondary: Front end developers	
Trigger	The user will recognize the app on their device based off the app's display	
Description	Step	Action
	1	User opens Google Play Store
	2	User searches for the app and is able to confirm the application based off of the display
	3	Once the app is downloaded, the user will interact with the app that visibly perceived as an app to create and manage tasks
Extension	Step	Branching Action
		None
Sub-Variations		Branching Action
		None
Related Information	Visual design	
Priority	The display of the application is critical, as the entire purpose of the application is to be disguised	
Performance	2 to 3 minutes for the user to search for and download the application.	
Frequency	The application display will only change depending on necessity, such as visual updates or app theme changing entirely	
Channels to Actors	N/A	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	

Superordinates	None
Subordinates	None

Use Case #3	Store videos	
Goal in Context	Allow the user to upload videos to document proof of abuse	
Scope and level	Strategic & Primary Task	
Preconditions	The application will require access to the user's files and camera to take/upload the videos	
Success End Condition	The app will display confirmation that the video has been saved.	
Failed End Condition	Any issues during the video recording or uploading process will prevent the videos from being properly stored	
Primary, Secondary Actors	Primary: Users Secondary: Storage system outside of the user's device	
Trigger	The user will be given an option to record video and prompted with a camera interface when selected.	
Description	**Step**	**Action**
	1	User opens the app: RemindMe
	2	User goes through the login process listed in the previous use cases
	3	User taps on the camera option
	4	User is prompted with a camera interface and selects the option to record a video
	5	User records and hits stop button
	6	Video files are safely and privately stored outside of the user's device/local storage

Extension	Step	Branching Action
		None
Sub-Variations		**Branching Action**
	1	User opens the app: RemindMe
	2	User goes through the login process
	3	User accesses items stored in the app and selects the option to upload new items
	4	User will upload the desired videos
	5	Video files are safely and privately stored outside of the user's device/local storage
Related Information	Video-Upload	
Priority	Recording & uploading videos is critical, as documenting abuse can be extremely helpful when reporting abusive events	
Performance	Video footage will be recorded at 780p quality to minimize battery consumption and storage constraints	
Frequency	This process will repeat each time the user would like to record a new video or upload an already existing video from their device	
Channels to Actors	Database, interactive, timeouts	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	None	
Subordinates	None	

Use Case #4	Store Photos	
Goal in Context	Allow the user to take photos or upload and store photo documents to assist in logging abusive events	
Scope and level	Strategic & Primary Task	
Preconditions	The application will require access to the user's files and camera to take/upload the photos	
Success End Condition	The application will notify the user that the photo has been successfully saved/uploaded	
Failed End Condition	The photos will not be properly stored	
Primary, Secondary Actors	Primary: Users Secondary: Storage system outside of the user's device	
Trigger	When selected, the user will be given an option to take a photo and prompted with a camera interface.	
Description	**Step**	**Action**
	1	User opens the app: RemindMe
	2	User goes through the login process listed in the previous Use Cases
	3	User selects the camera choice
	4	User is prompted with a camera interface and selects the option to take a photo
	5	User takes picture(s)
	6	Photo files are safely and privately stored outside of the user's device/local storage
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**

	1	User opens the app: RemindMe
	2	User goes through the login process
	3	User accesses previous logs stored in the app and selects the option to upload new items
	4	User will upload the desired photos
	5	Photo files are safely and privately stored outside of the user's device/local storage
Related Information	Photo-Upload	
Priority	The ability to take photos is essential to help the user with documenting and reporting abusive events	
Performance	Photos will be taken with 780p quality to minimize storage constraints	
Frequency	This process will repeat each time the user would like to take a new photo or upload an already existing photo from their device	
Channels to Actors	Database, interactive, timeouts	
Open Issues	None	
Due Date	April 2023	
…any other management info	None	
Superordinates	None	
Subordinates	None	

Use Case #5	Store Text
Goal in Context	Allow the user to type up or upload and store text documents to assist in logging abusive events

Scope and level	Strategic & Primary task	
Preconditions	The application will require access to the user's local storage to upload already existing text files	
Success End Condition	The application will notify the user that the text file(s) has been successfully saved/uploaded	
Failed End Condition	The text file(s) will not be properly stored	
Primary, Secondary Actors	Primary: Users Secondary: Storage system outside of the user's device	
Trigger	The user will be given an option to create or upload a text file	
Description	**Step**	**Action**
	1	User opens the RemindMe app
	2	User goes through the login process
	3	User will select option to create new text file
	4	User will create text file with desired information
	5	User will save the text file which will then be stored in a safe and private location that is not their device's local storage
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
	1	User will open the RemindMe app
	2	User goes through the login process
	3	User will select the option to upload a text document and upload their desired text document

	4	The text file will then be uploaded to a safe and private location that is not their device's local storage
Related Information	Text- Upload	
Priority	Creating & uploading text files with information regarding abusive events is critical as it can be used when reporting abusive events	
Performance	.txt, .dox, and .pdf files will be supported to make uploading easier and more convenient	
Frequency	This process will repeat each time the user would like to create a new text file or upload an existing text file from their device	
Channels to Actors	Database, interactive, timeouts	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	None	
Subordinates	None	

Use Case #6	Store Audio
Goal in Context	Allow the user to record or upload and store audio files to help log abusive events
Scope and level	Strategic & Primary task
Preconditions	The application will require access to the user's local storage in order to upload pre-existing audio files
Success End Condition	The application will notify the user that the audio file(s) has been successfully saved/uploaded
Failed End Condition	The audio file(s) will not be properly stored

Primary, Secondary Actors	Primary: Users Secondary: Storage system outside of the user's device	
Trigger	The user will have the option to record or upload an audio file	
Description	Step	Action
	1	User opens the RemindMe app
	2	User goes through the login process
	3	User will select option to record new audio file
	4	User will record their audio file with desired information
	5	User will save the audio file which will then be stored in a safe and private location that is not their device's local storage
Extension	Step	Branching Action
		None
Sub-Variations		Branching Action
	1	User will open the RemindMe app
	2	User goes through the login process
	3	User will select the option to upload an audio file and upload their desired audio file
	4	The audio file will then be uploaded to a safe and private location that is not their device's local storage
Related Information	Audio-Upload	
Priority	Recording & uploading audio files with information regarding abusive events is essential to help the user with documenting and reporting abusive events	

Performance	.mp3 and .amr files will be supported to make uploading easier and more convenient
Frequency	This process will repeat each time the user would like to record a new audio file or upload an existing audio file from their device
Channels to Actors	Database, interactive, timeouts
Open Issues	None
Due Date	April 2023
...any other management info	None
Superordinates	None
Subordinates	None

Use Case #7	Secretly Dial 911
Goal in Context	Allow the user to dial 911 at the push of a button but not have their phone display that they are in a current call
Scope and level	Strategic & Primary Task
Preconditions	- The user must give the app permission to have access to make phone calls. - The user's device must have cellular service connection
Success End Condition	The user is successfully connected to the emergency services in a discrete manner
Failed End Condition	The user is not connected to emergency services in a discrete manner (for example, it is obvious that the user is making a phone call)
Primary, Secondary Actors	Primary: User Secondary: The user's device used to make a phone call
Trigger	A visible emergency button that clarifies it will call 911

Description	Step	Action
	1	The user will open the RemindMe App
	2	The user will navigate to the password protected portion of the app and enter their pin
	3	The user will navigate to the option that will request emergency services
	4	The user will be prompted to confirm that they want to contact emergency services through the app
	5	After confirming, Emergency services will be contacted while the display on the user's phone does not show the action of a phone call being completed
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None
Related Information	Call 911	
Priority	Being able to discreetly dial 911 is critical as it can be used in the middle of an abusive event where emergency services can listen to (and record) the event and attempt to dispatch emergency services to the phone call's location. The user can leave the phone near-by without it appearing as if emergency services have been contacted	
Performance	This feature will require control of the user's screen display to ensure that the device's display does not indicate a phone call. It will take approximately 30 seconds to log into the app and press the emergency services button.	
Frequency	This process will only be repeated based off the user's necessity to contact emergency services	
Channels to Actors	Interactive, timeouts, screen display	

Open Issues	None
Due Date	April 2023
...any other management info	None
Superordinates	None
Subordinates	None

Use Case #8	Obtain Device Location	
Goal in Context	Gain access to the user's current device location	
Scope and level	Strategic & Primary Task	
Preconditions	The user must give the app permission to have access to obtain the device's location	
Success End Condition	The application is able to properly obtain the user's device location	
Failed End Condition	The application is unable to obtain the device's location	
Primary, Secondary Actors	Primary: User's who allow the application to retrieve the device's location Secondary: The device's GPS location	
Trigger	The user selects the "allow" button when the app requests permission to access the current device location.	
Description	**Step**	**Action**
	1	If the user wishes to access features that require the device's location, the user will be prompted to allow access to the device's GPS location
	2	The user will allow or deny the application access of their device's location

	3	The application will then be able to obtain the device's location when needed immediately after confirmation has been received
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None
Related Information	GPS Location	
Priority	Obtaining the user's device location is not critical, but it can be helpful by supporting other features that may require GPS location	
Performance	The GPS location will only be obtained when prompted by the user, depending on the feature being used. This will help prevent constant draining of the device's battery	
Frequency	This process will be repeated when there are features using the GPS location of the user's device	
Channels to Actors	Permissions, GPS location	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	None	
Subordinates	None	

Use Case #9	System Time-Out

Goal in Context	If the user is not interactive with the application within a certain amount of time, the RemindMe application will close entirely on the device
Scope and level	System & Primary function
Preconditions	The user must have the RemindMe application downloaded
Success End Condition	After a certain amount of time has passed where the user was inactive on the open RemindMe application, it will close entirely and will require reopening if the user wants access to the application again
Failed End Condition	The application does not close entirely on the device if the maximum time of inactivity has been reached
Primary, Secondary Actors	Primary: The user Secondary: The application's timeout system
Trigger	No activity on the application from the user

Description	Step	Action
	1	The user does not interact with the RemindMe application
	2	The application closes on the user's device
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None

Related Information	Application Timeout
Priority	This is a critical feature as it gives the user the ability to maintain privacy if their device is left unoccupied with sensitive information regarding abusive events.
Performance	A window of 15 - 30 seconds for the system to verify that the application is inactive before closing the application out

Frequency	This process will occur each time the user interacts or doesn't interact with the application
Channels to Actors	Time outs
Open Issues	Deciding a safe window / time-frame for the application to time out
Due Date	April 2023
...any other management info	None
Superordinates	None
Subordinates	None

Use Case #10	Survey to Determine Abuse Type/Severity
Goal in Context	This feature is meant to help users who are abuse victims, or know of an abuse victim, determine the type and/or the severity of the victim's abuse
Scope and level	Strategic & Summary
Preconditions	The user must have the RemindMe application downloaded
Success End Condition	The user receives results that indicate the victim's type and/or the severity of their abuse
Failed End Condition	- The user is unable to take the survey when prompted - The user does not receive the results that were determined from the survey
Primary, Secondary Actors	Primary: The user Secondary: Database system that keeps track of the user's results
Trigger	- The user will be prompted to take the survey when first downloading the RemindMe application - The user will also be able to decide to retake the survey any time they would like

Description	Step	Action
	1	The user downloads the RemindMe app
	2	The user is prompted to take the survey
	3	The user opts to take the survey and proceeds with answering the survey questions
	4	The user is then presented with the results of the survey, which are also stored outside of the device's local storage to access for future reference
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
	1	The user already has the RemindMe app downloaded
	2	The user selects the feature that allows them to take the survey
	3	The user proceeds with answering the survey questions
	4	The user is then presented with the results of the survey, which are also stored outside of the device's local storage to access for future reference
Related Information	Victim Survey	
Priority	This feature is critical, as some abuse victims are not entirely aware of how severe their abuse is until it is too late. This survey is meant to help victims become more aware of the types of abuse they are experiencing	
Performance	Survey results will be saved and then presented to the user immediately	
Frequency	This feature process will be repeated each time the user decides to take the surveys	

Channels to Actors	Database system, timeout
Open Issues	Which existing surveys from experts will be used to create and conduct these surveys
Due Date	April 2023
...any other management info	None
Superordinates	None
Subordinates	None

Use Case #11	User Login to Access Private Information	
Goal in Context	This feature is to provide the user with privacy in regards to accessing their stored documents and/or information of their abusive events	
Scope and level	Strategic & Primary Task	
Preconditions	The user will need to create a pin code to access the information	
Success End Condition	The user will be able to access their privately stored information using the pin code they set	
Failed End Condition	The user is unable to set a pin code for their private information	
Primary, Secondary Actors	Primary: The user Secondary: Database	
Trigger	The user will select the option to access their private information	
Description	Step	Action
	1	The user will open the RemindMe application
	2	They will then navigate to the location of where their private information is stored

	3	The user will then be prompted to enter a pin
	4	If the correct pin is used, the user will then have access to their private information that is stored in the database
Extension	**Step**	**Branching Action**
	4a	If incorrect pin is used/dummy pin is used then the user will not be allowed to access the information, but will be brought to a different page in the app
Sub-Variations		**Branching Action**
		None
Related Information	User login	
Priority	This feature is critical as it is a safety feature to help the user hide their information that may include documented items from abusive events	
Performance	This feature should process in a quick and timely manner as any delays can possibly cause the application to time out as the user is waiting for their information	
Frequency	This feature will be used each time the user is attempting to access their private information	
Channels to Actors	Database, timeout	
Open Issues	Should this be a pin with numbers or a password that includes letters and symbols?	
Due Date	March 2023	
...any other management info	None	
Superordinates	Dummy Display with incorrect logins	
Subordinates	System time-out	

Use Case #12	Disguised Check-In Notifications	
Goal in Context	The application will display disguised check-in notifications as regular "To-Do List" notifications to remind the user that they have support from the app	
Scope and level	System & Primary Function	
Preconditions	The user must have the RemindMe app downloaded	
Success End Condition	A reminder check-in notification will display and prompt the user to log-in if they attempt to access the app, and it does not raise suspicions of the abuser	
Failed End Condition	The notification is easily recognized as an app used to help abuse victims	
Primary, Secondary Actors	Primary: the User Secondary: Front end developers	
Trigger	The user will receive a notification on their device from RemindMe	
Description	**Step**	**Action**
	1	The user downloads the RemindMe app
	2	The user receives a disguised check-in notification from RemindMe
	3	The user proceeds to interact with the notification
	4	The user is presented with the app's log-in screen
	5	The user enters the correct password and is able access the apps features and their information
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
	1	The RemindMe app is already downloaded

	2	The user's device receives a disguised notification from RemindMe
	3	Someone other than the user interacts with the notification
	4	This person is presented with the app's log-in screen
	5	They enter the wrong password and are shown the app's dummy to-do list
Related Information	Visual design	
Priority	The display of the notifications are critical, as the entire purpose of the application is to be disguised	
Performance	10 to 15 seconds to display as a quick notification	
Frequency	A reminder check-in notification will be displayed at least once a week to the user	
Channels to Actors	N/A	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	None	
Subordinates	None	

Use Case #13	User Profile Information
Goal in Context	The user will create a profile that will contain necessary information about the user including name, cell phone number, and emergency contact information.
Scope and level	Strategic & Primary

Preconditions	The user must have the RemindMe app downloaded	
Success End Condition	The user will have all necessary information saved on their profile	
Failed End Condition	The system does not store all information and some is lost	
Primary, Secondary Actors	Primary: The user Secondary: Database	
Trigger	Upon downloading and opening app, user will be prompted to create a profile	
Description	**Step**	**Action**
	1	The user downloads the RemindMe app
	2	The user is prompted to create a profile
	3	The user enters their information
	4	The user now has created a profile
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
	1	The user downloads the RemindMe app
	2	The user is prompted to create a profile
	3	The user chooses to not create a profile at that moment
	4	The user is directed to the home screen
Related Information	Create Profile	
Priority	This feature is critical because it is essential the users information is stored in the database, especially the users name and emergency contacts	

Performance	2 to 3 minutes
Frequency	Once
Channels to Actors	Interactive
Open Issues	None
Due Date	April 2023
...any other management info	None
Superordinates	None
Subordinates	None

Use Case #14	Quick User Guide	
Goal in Context	Give a quick rundown of how to use the app so the user understands how to best utilize our features.	
Scope and level	System & Primary	
Preconditions	The user must have the RemindMe app downloaded	
Success End Condition	The user learns everything they need to know about the app through the quick user guide and are set up to successfully use the app and its features	
Failed End Condition	The quick user guide is unclear and the user is still unsure of how to use the app	
Trigger	Upon downloading and opening the app for the first time, the quick user guide will appear. After the first time, the user will be able to access the quick user guide again when necessary	
Description	**Step**	**Action**
	1	The user downloads the RemindMe app

	2	The user opens the app and the quick user guide appears
	3	The user clicks next to go through each step of the guide
	4	Once the guide is finished, the home screen is displayed
Extension	**Step**	**Branching Action**
		None
Sub-Variations	**Step**	**Branching Action**
	1	The user will open the RemindMe app
	2	Navigate to the settings options
	3	Select the "Quick-Guide" option to be show how the application functions
Related Information	Quick User Guide	
Priority	Although this feature is not critical, it can become helpful to the users who need guidance on how the application operates or need a quick reminder	
Performance	The quick user guide will be displayed on the application until the user either prompts out of the user guide or the application times out and closes	
Frequency	The quick user guide will be displayed at minimum one time upon downloading the application, then it will be displayed if and only if the user decides to view it	
Channels to Actors	Database	
Open Issues	None	
Due Date	February 2023	
...any other management info	None	
Superordinates	None	

Subordinates	None

Use Case #15	Storing Location History	
Goal in Context	The app will give the user the ability to store the most recent location in the calendars history log.	
Scope and level	System & Primary Task	
Preconditions	The user must give the app permission to have access to obtain the device's location	
Success End Condition	The application is able to properly store and upload the user's most recent device location	
Failed End Condition	The application is unable to obtain the device's location	
Primary, Secondary Actors	Primary: User's that allow the application to retrieve their device's location Secondary: The device's GPS location	
Trigger	The user chooses to store their most recent location on RemindMe	
Description	**Step**	**Action**
	1	If the user wishes to access features that require the device's location, the user will be prompted to allow access to the device's GPS location
	2	The user will allow or deny the application access of their device's location
	3	The application will then be able to obtain the device's location when needed immediately after confirmation has been received
	4	The user can select the option to store their last location
Extension	**Step**	**Branching Action**
		None

Sub-Variations		Branching Action
		None
Related Information	GPS Location	
Priority	Although obtaining the user's device location is not critical, it is useful for features such as this one that requires GPS location	
Performance	The GPS location will only be obtained when prompted by the user to help prevent constant draining of the device's battery	
Frequency	This process will be repeated when the user selects to store their last location	
Channels to Actors	Permissions, GPS location	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	Provide locations of nearest help/support, storing location history	
Subordinates	None	

Use Case #16	Provide Locations of Nearest Help Centers, Shelters, and Police Departments
Goal in Context	This feature will display a map of pins to the nearest help centers, shelters and police departments. Along with contact information and a brief description of services in an effort to provide helpful resources to the users.
Scope and level	Strategic & Primary task
Preconditions	The user must give the app permission to obtain device location in order to find the nearest resource centers.

Success End Condition	The app displays an accurate map with resource locations based on device location.	
Failed End Condition	- The user does not allow the app to obtain device location. - App cannot accurately locate and display map pinning the nearest resources	
Primary, Secondary Actors	Primary: Users that are seeking helpful resources Secondary: Resource centers that are being located	
Trigger	User selects the helpful resources button in the RemindMe App	
Description	**Step**	**Action**
	1	The user opens the RemindMe App.
	2	The user will navigate to the option that provides helpful resources.
	3	The app displays a request to obtain device location, where the user can make a selection.
	4	Upon allowing the device to obtain its current location, a map with pins to the nearest resources will be displayed.
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None
Related Information	Helpful - Resources	
Priority	This is a critical feature, as it is meant to give the users the power to research where they can receive support without leaving behind a search history online	
Performance	This feature will have to operate in a quick and timely manner as it can be crucial for users to seek support	
Frequency	This feature will be repeated each time the user decides to search for support nearest to their current location	

Channels to Actors	GPS location
Open Issues	Will a map or the locations be more useful vs a list?
Due Date	March 2023
...any other management info	None
Superordinates	None
Subordinates	Accessing current GPS location

Use Case #17	Calendar Logs of Stored Information	
Goal in Context	The app will provide an integrated calendar that links the documented information to a desired or recorded date. The user can easily organize, search and view a history log of all documented data through the calendar.	
Scope and level	Strategic & Primary Task	
Preconditions	The user must have the RemindMe app downloaded.	
Success End Condition	The user can conveniently locate all their documented information that is linked by date on the calendar.	
Failed End Condition	The system failed to link the documents to the calendar, so the user is unable to view recorded data in an organized fashion.	
Primary, Secondary Actors	Primary: User who wants to easily locate their documents by date Secondary: Front end developers and storage system outside of users device.	
Trigger	The user uploads or records information onto the app.	
Description	Step	Action
	1	User opens the app: RemindMe
	2	User goes through the login process listed in the

		previous use cases
	3	User taps on calendar option
	4	The calendar interface appears and the user selects a date to view attached logs.
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None
Related Information	Calendar Event Logs	
Priority	Having a calendar to log abuse is critical to users so they are able to reference their own history of records of the abusive events that took place whenever needed.	
Performance	The user will be able to store their events by date to keep it in an organized manner that is easy to navigate.	
Frequency	Whenever the user needs to recall an abusive event, they will have the option to view or select the date from their calendar log.	
Channels to Actors	Database	
Open Issues	How the users will be able to categorize the events other than just by date	
Due Date	April 2023	
...any other management info	None	
Superordinates	None	
Subordinates	Store videos, store pictures, store text, and store audio	

Use Case #18	Sharing Documented Information Privately	
Goal in Context	If the user feels confident enough to share their documented information in regards to their abuse, they will be able to send the information to another individual via email	
Scope and level	Strategic & Summary	
Preconditions	The user must have the RemindMe app downloaded and know the email address of the individual they wish to sent the information to	
Success End Condition	The individual successfully receives the email with all the information the user decided to share	
Failed End Condition	The individual does not receive the files	
Primary, Secondary Actors	Primary: The user Secondary: database & individual receiving the information	
Trigger	The user selects the option to send documented information to certain individuals	
Description	**Step**	**Action**
	1	The user will have the RemindMe app downloaded
	2	The user will navigate to the feature where all of their private information will be stored on the app
	3	The user will be prompted to enter their pin to access the information
	4	The user will select the option to share their information to an email address of their choice
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None

Related Information	Securely sharing information
Priority	Sharing documents privately is critical as it can benefit users who need an easy way to share their logged abuse information with someone they trust
Performance	The user will have the option to create a zip file of all their logged history and privately share it to an email address of their choice. It will take 30 seconds to zip files and email them.
Frequency	This option will always be available to users whenever they feel the need to share their logs/information
Channels to Actors	Interactive
Open Issues	None
Due Date	April 2023
...any other management info	None
Superordinates	Store videos, store photos, store texts, and store audio
Subordinates	None

Use Case #19	Dummy Display with Incorrect Logins
Goal in Context	The application will require a password in order to access the user's information; if an incorrect password is entered, then the app will display a made-up "To-Do List" to make the abuser believe they have successfully accessed the apps information
Scope and level	Strategic & Primary Task
Preconditions	User will need to have the app installed on their device and set up their custom To-do list if they do not want one auto-generated

Success End Condition	The app will display the dummy To-do List if an incorrect password is entered and it does not raise suspicions of the abuser	
Failed End Condition	The app is easily recognized as an app used to help abuse victims	
Primary, Secondary Actors	Primary: Users Secondary: Front end developers	
Trigger	An incorrect password is entered into RemindMe's log-in screen	
Description	**Step**	**Action**
	1	Someone other than the user attempts to access their RemindMe app
	2	The app prompts the abuser to log-in
	3	The abuser enters an incorrect password
	4	The app displays a dummy to-do list
	5	The abuser is prompted to sign-in again
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
	1	The user open their RemindMe app
	2	The app prompts for the user to log-in
	3	The user enters an incorrect password
	4	The app displays a dummy to-do list to the user
	5	The user is prompted to sign-in again
Related Information	Visual design	

Priority	The dummy To-do List is critical, as the entire purpose of the application is to be disguised
Performance	The made-up tasks will be either be a simple auto-generated To-do List or it will be custom-made by the user
Frequency	The list will appear whenever an incorrect password is entered on the RemindMe log-in screen
Channels to Actors	N/A
Open Issues	How to auto-generate a believable list that will trick people every time someone other than the user attempts to access RemindMe
Due Date	April 2023
...any other management info	None
Superordinates	User login
Subordinates	None

Use Case #20	Backing up information
Goal in Context	The user will be able to send their information to themselves as a backup file via email
Scope and level	Strategic & Summary
Preconditions	The user must have the RemindMe app downloaded and know which one of their own email addresses that they are going to send the file to
Success End Condition	The user successfully receives the email with all the information that they decided to share
Failed End Condition	The user does not receive the files
Primary, Secondary Actors	Primary: The user Secondary: database & the user email receiving the information
Trigger	The user selects the option to send documented information to certain email addresses

Description	Step	Action
	1	The user will have the RemindMe app downloaded
	2	The user will navigate to the feature where all of their private information will be stored on the app
	3	The user will be prompted to enter their pin to access the information
	4	The user will select the option to share their information to one of their own email addresses
Extension	**Step**	**Branching Action**
		None
Sub-Variations		**Branching Action**
		None
Related Information	Securely backing up/sharing information	
Priority	Backing up information is critical because it allows users to share their logged abuse information with themselves in order to keep their records in a secure place outside of their device	
Performance	The user will have the option to create a zip file of all their logged history and privately share it to an email address of their choice	
Frequency	This option will always be available to users whenever they feel the need to share their logs/information	
Channels to Actors	Interactive	
Open Issues	None	
Due Date	April 2023	
...any other management info	None	
Superordinates	Store videos, store pictures, store texts, and store audio	

Subordinates	None

Functional & non-functional Requirements

Functional (Features)

- Sign in/Login
  - Allows users to access and hide documented information regarding abusive events
  - Prevents others from accessing the user's private information
- Searching support nearby
  - Allows users to privately research support centers near their current location
  - Nearby support centers will be listed on a map or in a list with some filter options
    - Filter by distance amount
    - Sort by distance
    - Filter by type of support
- Dummy pins and displays
  - Prevents others that are not the user from accessing private information and/or becoming suspicious of the app's intended use
  - When an dummy pin is entered, then the app will display and interact as a To-Do application and the private information cannot be accessed
- Privately sharing documentation
  - Documented information can be shared by email through the application
  - The user will not have to provide any email information and their information can be sent anonymously
- User profile information
  - The user can create a profile with no mandatory information to be provided. They will be able to document as much private information as they wish
  - Emergency contact can be used if the device is obtained by authorities and they are able to go through the app (and are familiar with its intent)
- Privately storing media (texts, photos, videos, & audio recordings)
  - Documenting abusive events and keeping them safe and away from the abuser is difficult. These features will allow the user to store them with a lower risk of grabbing the abuser's attention

Quality (Qualities)

- Make sure that the app can be easily navigated while also operating discreetly
  - It should not be difficult to find or access features in the app, but the features should not be displayed in a obvious fashion
- Ensure that any external links open a browser window in an "incognito" mode to prevent an online history/trail
- The application must be functional during all hours and days of the week
  - If any updates need to be made to the app, the updates will be made in a test environment while the current version is still live

Constraints (OS, languages)

- Each team member will have to set time aside to learn and understand the Kotlin coding language to ensure too much time is not wasted on unnecessary troubleshooting due to syntax
- Developing a secure database that will protect any and all users
- As beginning software engineers and developers, this project will require a lot of time and dedication. This means possibly sacrificing time for other work and activities to complete the application thoroughly

Development Process

- Complete all documentation necessary
- Research and confirm all the technology needed to have the application operate
- Become familiar with Android SDK, coding languages, frontend, and backend
- Begin app development
- Deploy the application in a testing environment complete release
- Create a release and distribute the application in a real world environment
- Continuously maintain the application's software