Software Requirement Specification

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1. Project Description

The project is an application that allows users to track their medication (especially mental health medication). The intention is for users of the application to be able to log when they are taking medication, keep track of when they are running out, and this should include a journaling aspect where they can keep track of any symptoms to discuss with their primary care provider. Also includes a reminder system for appointments when to take medication. Another aspect of the application will be getting (non-professional) medical advice to users who may need it.

2. Functional Requirements

FR01	User can Sign up/Log in of accounts
FR02	The software must enable the user to log the medication that they are taking.
FR03	User sets up and has a reminder system for when to take medication and appointments
FR04	System have user input how they are feeling on medication on a scale of 1 - 10
FR05	The software must enable the developer to database user information for easy retrieval.
FR06	The software must enable the user to write notes about their symptoms for later referral.
FR07	Input the amount of pills available and as you take it, it shows how many will be left (inventory tracking)
FR08	The software must enable the user to request (unprofessional) medical advice based on symptoms.
FRN	

3. Non-Functional Requirements

NFR0	Emails cannot be reused on a new sign up of an account
1	and the same and t
NFR0	Reminders should be sent a hour, 30 minutes, 5 minutes, and at the set time
2	
NFR0	Notify healthcare provider if medication has not been taken for more than a week
3	(serious medications only)
NFR0	
4	
NFR0	
5	
NFR0	
6	
NFR0	
7	
NFR0	
8	
FRN	

4. Use Case Specification

<< Select **three** functional requirements and describe them in detail using use cases.>>

UC01 Name:	Account Accessibility
Description:	The software either prompts the user to sign up for the application or uses the
	provided user information to search our database and access the user's
Actor	Account
Actor: Entry	New User The user selects the option: Sign Up/Login
condition:	The user selects the option. Sign op/Login
Basic path:	1. The user is presented with a screen where they can select either: [PRO01]
	a. Sign Up
	b. Log In
	2. The user selects: Sign Up [A01]
	3. The user is taken to a screen [PRO02] where they enter the following:
	- First and last name
	- Date of Birth
	- Email
	- Phone Number
	- General area of residence (i.e. city, state)
	- Current Medication
	- Current Symptoms
	-User agrees to terms & conditions of the application
	— Sign Up
	— Back
	4. The user enters information and chooses Sign Up [A02]
	5. The system verifies the user information and proceeds with account sign up process [E01] [E02] [BR01] [BR02]
	6. The system adds the user to the database
	7. The use case is concluded
	8. The system returns to the home screen.
Alternative	[A01] The actor selects the Log-In option
paths:	 The system prompts user to enter the following [PRO03]:
	a. Email or Phone Number

- b. Password
- Forgot Password
- Confirm
- Back
- 2. The user enters information and clicks Confirm [A02] [A03]
- 3. The system verifies user information [E02] [E03] [BR03]
- 4. The use case returns to step 7 of the basic path

[A02] The actor selects the Back option

1. The use case returns to step 1 of the basic path

[A03] The actor selects Forgot Password

- 1. The system prompts user to enter the email or phone number of their account [PRO04]
- 2. The user enters their information [A02]
- 3. The system verifies the user information [E04]
- 4. The user is sent an email link to reset their password
- 5. The use case returns to step 1 of the basic path

Exception paths:

[E01] Duplicate Email

- 1. The system informs user that the entered email is already in use with the application
- 2. The use case returns to step 3 of the basic path

[E02] Invalid entry of user information

- 1. The system informs user that a specific required field either has an invalid format or was left empty.
- 2. The use case returns to step 3 of the basic path

[E03] Invalid Email/Phone Number or Password

- 1. The system informs user that the entered email or password is incorrect
- 2. The use case returns to step 1 of the basic path

[E04] Invalid Email or Phone Number

- 1. The system informs user that the entered email or phone number is not in the system
- 2. The use case returns to step 1 of basic path

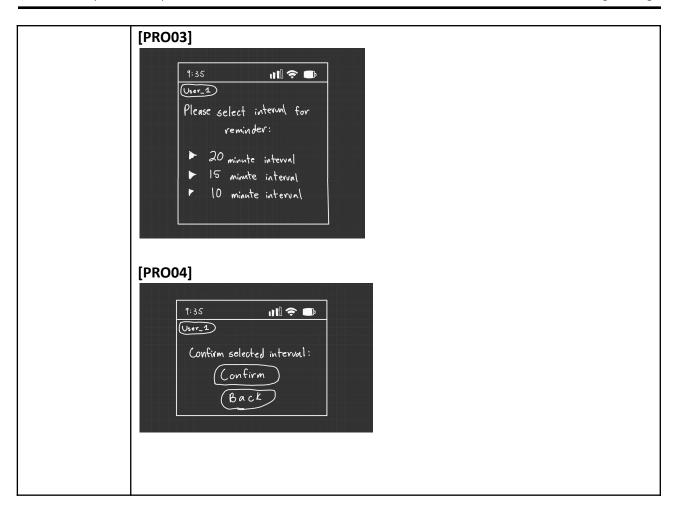
Business Rules:	[BR02] The te	rms and con	ditions must be a	per are mandatory agreed upon d are mandatory	
Data description	 	1_	1		
description	Name	Type	Length	Mask	
	Name	String	50	-	
	DOB	String	10	MM/DD/YYYY	
	Email Phone #	String	50 12	-	
	Password	String	30	XXX-XXX-XXXX	
	Area of	String	50		
	Residency	String	30	-	
	(i.e.				
	city,state)				
	Curr	String	50	_	
	Medication				
	Curr	String	30	-	
	Symptoms				
	()	ბ ♠ ■	MediTrac	rk	
			<u>Sign Up</u> Log In		
	-				

MediTrack	
←→ C ↑	
First Name: Last Name: Date of Birth: Email: Phone Number: General Area of Residence (i.e. city, state): Current Medications: Current Symptoms: Please click here to read the terms & conditions. Sign Up	Back

	MediTrack	
←→ ¢ ♠ ■		
		<u>Back</u>
Email/Phone Number: _		— I
Password:	Forgot Password	—
	<u>roigot rassworu</u>	
	<u>Login</u>	
[PRO04]		
	MediTrack	
←⇒ ७♠ ■	<i>Meur 2 aca</i>	
	<u>Forgot Password</u>	<u>Back</u>
Email/Phone Number: _		—
	Send Recovery link	

UC02 Name:	Schedule Reminding				
Description:	The software allows users to choose the time they want to be reminded to take				
	their medication. It will consistently remind the user about taking their				
	medication at pre-set intervals.				
Actor:	New and existing users				
Entry	User selects: Schedule reminders				
condition:					
Basic path:	1. Prompt of user choosing when the system should start reminding use of				
	when reminders should start [PRO01]				
	2. Prompt of choosing when the first reminder should be [A01]				
	[BR01][PR002]				
	3. After choosing, a set of intervals are shown depending on the reminder				
	time they chose [A02] [E01] [BR02][PR003]				
	4. The system verifies with the user their desired schedule [A02] [PRO04]				
	5. The user then confirms or denies with the software/system they agree				
	of the reminder schedule [E02]				
	6. System keeps this in the account's information				
	7. Use case is completed, confirmed and set				
Alternative	[A01] Actor selects when their first reminder should be				
paths:	The system prompts the user to choose one of the following:				
patris.	a. 1 hour before				
	b. 45 minutes before				
	c. 30 minutes before				
	2. User is then prompted with intervals they would like to be reminded				
	l · · ·				
	[A02]				
	[A02] Actor selects their desired interval of being reminded				
	2. The system prompts the user to choose one of the following:				
	a. 20-minute intervals				
	b. 15-minute intervals				
	c. 10-minute intervals				
	3. The system asks user to confirm their interval desire				
	- Confirm				
	- Back				
	4. System adds interval to the users profile				
Exception	[E01] User resets application to not have intervals				
paths:	1. Application restarts				
	2. The application asks user to schedule reminders as it is required [BR01]				
	[E02] User disagrees with confirmation of the scheduled reminder				
	Systems ask if they are sure of no confirming				

Business Rules:		[BR01] Selecting a set schedule of reminder is required [BR02] Selecting intervals of reminders is required				
Data						
description	Name	Туре	Length	Mask		
	User	String	8-30	N/A		
	Account ID	Daalaaa	0.571	N1/A		
	Confirmation n Status	Boolean	0 or 1	N/A		
	Reminder	Calendar	N/A	N/A		
		Time		IN/A		
	Reminder	Integer	1-3	N/A		
	Interval					
	Verification	String	30ish	N/A		
	Message					
	User Profile	String	100+	N/A		
				·		
	L	<u> </u>				
	[PRO01] 1:35 User_1 Please select date to set reminder for "x" medication: X X / X X					
	► I how	lect time for eminder: ars 0 mins 0 securs 45 mins 0 securs 30 mins 0 sec	.5			



UC03 Name:	Check-ins
Description:	The software prompts the user to select a rating for the previous day of medication usage after they log the current day of medication usage to show how a person is feeling on a medication on a scale of 1 - 5, while allowing the user to update their symptoms and access journal prompts.
Actor:	New and Current Users
Entry condition:	The actor confirms that they have taken the medication [BR01]
Basic path:	 The actor is prompted to "check-in" (automatic) [A01] a. User chooses to manually check in from the home screen [A02] If the actor selects yes, they will be taken to a screen with the ability to select a rating between 1 and 5. The actor selects a rating [BR02] A text box will be located below the rating options for the user to provide more information/details on why they selected that particular rating. The user will finally select "Submit Check-in." The information from the user will be stored in a database for later retrieval.
Alternative paths:	 [A01] The user selects "no" when prompted to check-in 5. After logging medication the actor is prompted to "check-in" 6. The actor selects no and is returned to the home screen 7. The lack of response is logged in a counter to remember how many days it has been since the actor has logged how they feel [A02] User chooses to check in without an automatic prompt (manually) 5. When the actor is in the home screen they will have the option to select from multiple functions. From there one of the options to select will be "check-in" 6. if yes is selected they will be taken to a screen with the ability to select a rating between 1 and 5. 7. The actor selects a rating 8. A text box will be located below the rating options for the user to provide more information/details on why they selected that particular rating. 9. The user will finally select "Submit Check-in." 10. The information from the user will be stored in a database for later retrieval.

Exception paths:

[E01] The Actor has not logged an entry in 3 days

- 3. If the inactivity counter is set to 3 then the actor will be sent a reminder
- 4. the reminder will prompt the actor to check-in: "You have not checked-in for 3 days, would you like to now?
- 5. if the user selects no they will be return to the home screen
- 6. if yes is selected they will be taken to a screen with the ability to select a rating between 1 and 5.
- 7. The actor selects a rating
- 8. A text box will be located below the rating options for the user to provide more information/details on why they selected that particular rating.
- 9. The user will finally select "Submit Check-in."
- 10. The information from the user will be stored in a database for later retrieval.

[E01] The Actor has not logged an entry in 5 days

- 11. if the inactivity counter is set to 5 then the actor will be sent a reminder
- 12. the reminder will prompt the actor to check-in: "You have not checked-in for 5 days, would you like to now?
- 13. if the user selects no they will be return to the home screen
- 14. if yes is selected they will be taken to a screen with the ability to select a rating between 1 and 5.
- 15. The actor selects a rating
- 16. A text box will be located below the rating options for the user to provide more information/details on why they selected that particular rating.
- 17. The user will finally select "Submit Check-in."
- 18. The information from the user will be stored in a database for later retrieval.

[E01] The Actor has not logged an entry in 10 days

- 19. if the inactivity counter is set to 10 then the actor will be sent a reminder
- 20. the reminder will prompt the actor to check-in: "You have not checked-in for 10 days, please log your activity which will have a button to redirect them to the check-in screen
- 21. they will be taken to a screen with the ability to select a rating between 1 and 5.
- 22. The actor selects a rating

- 23. A text box will be located below the rating options for the user to provide more information/details on why they selected that particular rating.
- 24. The user will finally select "Submit Check-in."
- 25. The information from the user will be stored in a database for later retrieval.

Business Rules:

 $\ensuremath{[BR01]}$. User must confirm they have taken medication for previous cycle

[BR02] . User must select a rating before submitting check-in

Data description

Name	Туре	Length	Mask	
Rating	int	1	N/A	
Rating	String	100 +	N/A	
Details				
Confirmatio	Boolean	1 byte	N/A	
n				

→ background color

Prototype:

[PRO01]



[PRO02]