Software Requirement Specification

Group members	Gage Swanston			
	Jon Rutan			
	Daniel			
	Crystal Bagala			
	Maryam			
	Abrar Rahman			
	Yanit			

1. Project Description

A logging software meant to collect meaningful patient observations regarding their medication usage. The patient's relevant medical information, such as age, weight, illnesses, etc. will be collected, as will prescribed medications and treatment plans. The software will collect data for the duration of the treatment period, whether it be a period of time or indefinitely. Then, said data would be exported to be viewed when requested. Strictly Ethical.

2. Functional Requirements

FR01*	The software must enable the patient to input medical/personal information during account
	creation (Age, Gender, Doctor Info, ect.)
FR02*	The software must enable the patient to rate various emotions and experiences (related to their
	treatment regimen) with (1-10) scales
FR03	The software must enable the Doctor to be able to generate/receive a report on patient data.
FR04	The software must enable the patient to edit their account details after creation.
FR05	The software must enable the patient to create a family plan/account
FR06	The software must enable the Doctor to view patients' records and make a copy to save.
FR07	The software must enable the patient to opt into automated reports being sent to doctor of
	their choice
FR08	The software must enable the patient to access accessibility features: voice diction, language
FR09	The software must enable the patient to journal their experiences and feelings.
FR10	The software must enable the patient to prove if they are 18+ or approval by a parental figure/
	guardian for account creation.
FR11*	The software must enable the patient to be able to retrieve and display information (Weight,
	pain level, etc)
FR12	The software must enable the patient to accept the terms and Conditions to continue using the
	арр.
FR13	The software must enable the patient to format their app in different views, like schedule
	formatting

3. Non-Functional Requirements

NFR01	Software must enable two factor authentication.
NFR02	Software requires a database for saving login information.

NFR03	Software must be strictly ethical. User data should be kept confidential, out of reach of		
	developers as well		
NFR04	Software must enable biometric Login		
NFR05	Software must push notification for reminders on when to log		
NFR06	The Scale/numeric portion is required, but the journal section is not		

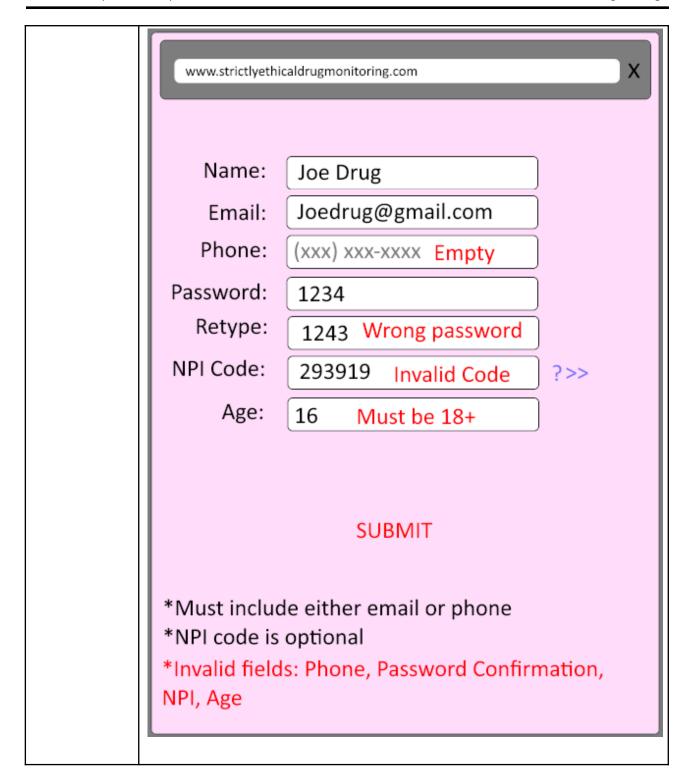
4. Use Case Specification

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

UC01 Name:	User account creation.					
Description:	The software must enable the patient to input medical/personal information during					
	account creation (Age, Gender, Doctor Info, ect.) Customer / End user / Patient					
Actor:	Customer / End user / Patient					
Entry	The actor selects the option to register for an account.					
condition:						
Basic path:	1. The actor is on the frontend, and has selected the "Create					
	Account" option, they are led to a registration screen with all					
	editable fields featuring: [PRO01]					
	Name (editable)					
	Email AND/OR Phone number (editable)					
	Password (editable)					
	Password Confirmation (editable)					
	(Optional) Doctor reference (code)(NPI?) / (editable) [A02]					
	Birthday (editable)					
	2. If the actor chooses to leave the email or phone empty [A01]3. User clicks 'submit'					
	4. System verifies/sanitizes input [E01] [BR01]					
	5. The user is taken to the home screen on their new account. [PRO03]					
	6. Success. The use case is done.					
Alternative	[A01] Patient does not provide an email, and just provides a					
paths:	phone number.					
	1. A confirmation code is sent to the phone number to assure that it is valid.					
	[A02] Patient enters the NPI code					
	This information is saved to their account and used for					
	logging.					

	[A03] User already has an account and doesn't need to create a					
	new account.					
	1. User already has an account and selects the "Sign In" option.					
	Email and password are required for log in.					
Exception	[E01] Invalid	d registration	n informatio	n		
paths:	Syster	m displays r	nessage indic	ating the existence of invalid		
	inforn	nation.				
	2. The	e use case re	eturns to step	1 of the default path. Invalid		
	fields	are marked	so the user k	knows what they must change.		
	[E02] Invalid	d login info	mation			
	Syster	m displays r	nessages indi	cating the existence of invalid		
	inforn	nation. [PR	02]			
	2. The u	ser is returr	ned to step 1	of [A03] path. Invalid field is		
	highli	ghted so the	e user knows	what they must change.		
Business	[BR01].					
Rules:	User's email is verified through an email confirmation link.					
	 User's phone number is verified through a SMS confirmation 					
	code.					
	[BR02].					
	User's email must be registered alongside the correct password					
Data	password.					
description	Name	Туре	Length	Mask		
•	Patient	String	50			
	Name					
	Phone	String	10-15	(x)xxx - xxx - xxxx		
	Number					
	Password	String	10-30	-		
	Email	String		xxxx@xxx.xxx		
	Age	Integer	3	xxx		
	NPI/ Integer 10 xxxxxxxxxx					
	Reference					
	code					
	1					

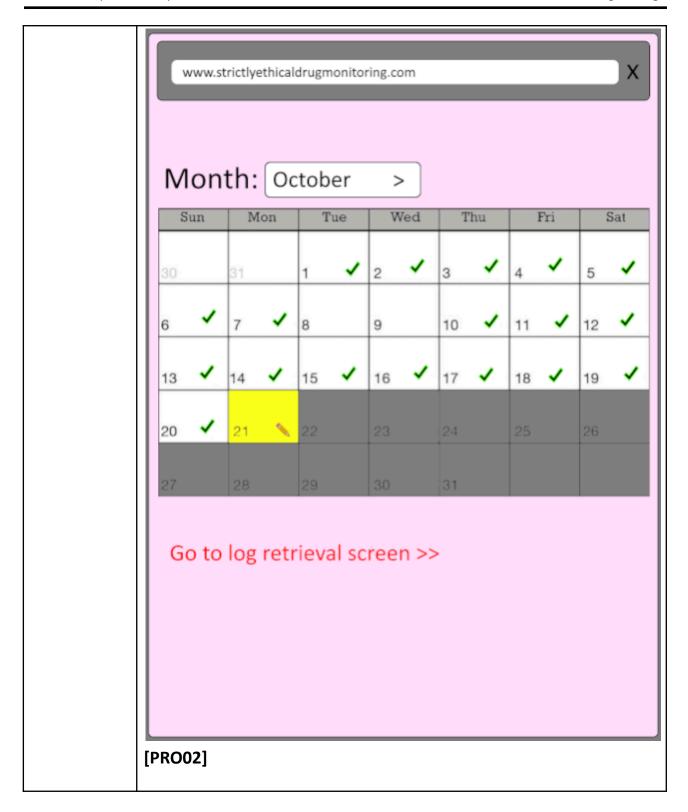
Prototype:	[PRO01]						
	www.strictlyothi	caldrugmonitoring.com					
	www.strictryetin	caldrughtonitoning.com					
	Name:						
	Email:						
	Phone:	(xxx) xxx-xxxx					
	Password:						
	Retype:						
	NPI Code:	?>>					
	Age:						
		Not 18? Click here >>					
		SUBMIT					
		le either email or phone					
	*NPI code is	optional					
	[PRO02]						
	[: 1.002]						

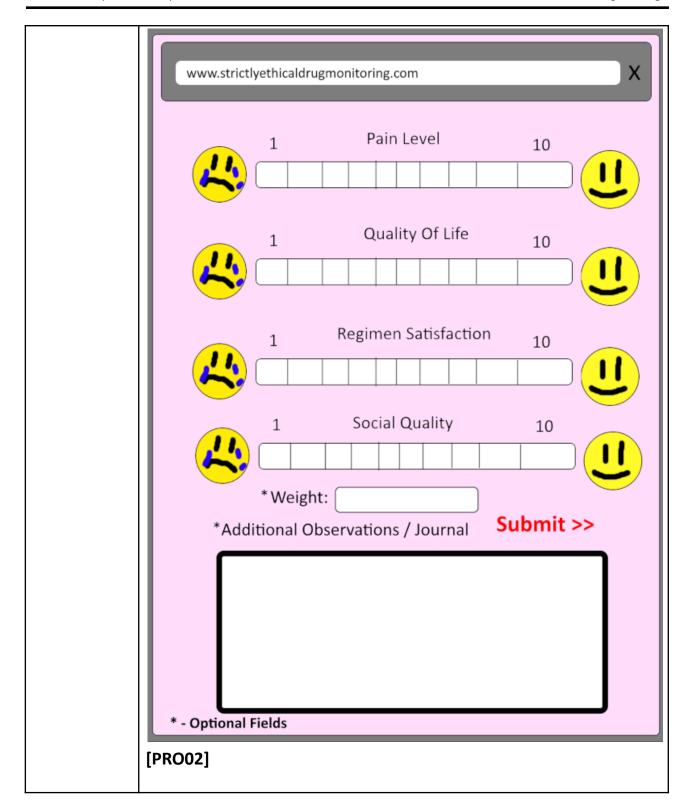


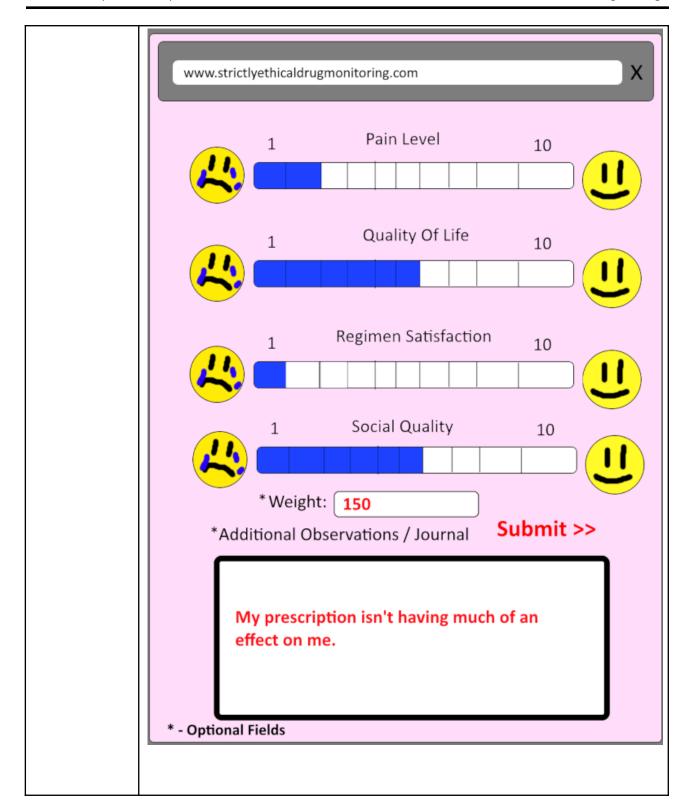


UC02 Name:	Treatment Regimen Logging					
Description:	The software must enable the patient to rate various emotions and experiences					
Actor:	(related to their treatment regimen) with (1-10) scales Customer / User / Patient					
Entry	Selecting the option to log information					
condition:	Selecting the option to log information					
Basic path:	User selects the calendar					
	The system presents the regimen logging screen					
	3. Users are prompted everyday to denote the duration of their					
	treatment regimen.					
	4. Users are prompted with several 1-10 scales regarding their					
	current pain level, quality of life, satisfaction with the current					
	regimen, etc [A02][PRO02].					
	5. (Optional) Patient can write in the 'Additional observations'					
	field [A01]					
	6. (Optional) Patient can choose to log their current weight					
	[A03]					
	7. Patient submits the current log [E01][BR01][BR02][PRO02]					
	8. System returns to the home screen.					
Alternative	[A01] Users are prompted to type/write any additional details					
paths:	regarding their medication usage.					
	User writes any additional observations that they wish to					
	include in the corresponding field.					
	2. This entry is saved with the log for that day.					
	[A02] User forgets or declines to fill out the scales.					
	1. Log for that day is saved as blank/incomplete.					
	[A03] User is prompted to log their current weight					
	Users record their weight to the corresponding field.					
	2. This entry is saved with the log for that day.					
Exception	[E01] Log is incomplete upon submission attempt					
paths:	1. User is alerted with a notice that the log is not complete.					
	The corresponding unfinished fields are highlighted.					

	3. If the user still submits the incomplete submission then the use case returns to base case step 5.				
Business	[BR01] Sens	itive informa	tion must be pr	otected.	
Rules:	[BR02] User must complete the scale before submitting				
Data					
description	Name	Туре	Length	Mask	
	Add. observations	String	1000	-	
	Pain level	Integer	2	-	
	Quality of life	Integer	2	-	
	Regimen satisfaction	Integer	2	-	
	Weight	Integer	3	-	
	Social quality	Integer	2	-	
Prototype:	[PRO01]				







LICO2 Names	Dationt Log Datrioval					
UC03 Name:	Patient Log Retrieval The software must enable the patient to be able to retrieve and display information					
Description:	(Weight, pain level, etc)					
Actor:	Customer/ Patient / user					
Entry	Patient navigates to the log retrieval tab. [PRO01]					
condition:						
Basic path:	1. The user selects a month from a dropdown list.					
	2. The user is presented with a month calendar, and the ability					
	to select a date range from it.					
	[PRO02][A01][A03][E01][E02][E03]					
	3. The system displays the average of the logged fields for that					
	range, as well as a line graph denoting the change over time					
	of a given field. [A02]					
	4. The patient selects a specific metric					
	5. The system displays a long term view of the selected metric					
	[PRO03]					
Alternative	[A01] If the patient wants to choose different date ranges to					
paths:	display (rather than monthly view)					
	Patient selects date range option					
	2. Patient inputs start and end dates					
	3. System retrieves and displays date range information					
	[A02] Patient selects a specific metric					
	1. The line graph for that specific metric and date range is					
	displayed.					
	[A03] Patient selects a specific date on the calendar					
	1. The log for that date is displayed if one is available					
Exception	[E01] User selects the current date, if there is no data logged.					
paths:	The user selects the current day to retrieve the log but					
	nothing has been logged for the day.					
	1. The user is prompted to log for the day					
	[E02] User selects a date that has no data logged.					
	The user selects a date with no data to retrieve.					
	1. An error message is displayed and they are returned to					
	step 1.					

	[E03] User selects a date that hasn't occurred.				
	1. An error message is displayed and they are returned to				
	step 1.				
Business	[BR01] Date	must be pro	esented in a use	r-friendly way. (Monthly,	
Rules:	weekly, year	ly display)			
	[BR02] Sensi	tive informa	ation must be pr	otected.	
	[BR03]				
Data					
description					
	Name Type Length Mask				
	Descriptio	String	1000	-	
	n				
	Ratings Integer 11 N/A 1 2 3 4 5 6 7 8 9				
	Date Date 10 YYYY-MM-DD				
	Time	Time	8	HH-MM	
	AM/PM				
Prototype:	[PRO01]				



