Software Requirement Specification

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1. Project Description

The medication Adherence system is designed to assist patients in managing their medication schedules effectively and ensuring adherence to prescribed treatments. It provides real-time alerts and reminders to users to take their medications on time. Additionally, it generates reports on medication adherence. The system tracks the patient's medication intake, recording whether doses are taken or missed. By improving medication adherence, this system aims to reduce health complications and support better outcomes for patients.

2. Functional Requirements

FR01	Sends reminders for medicines
FR02	Logging if medicines were "taken" or "missed"
FR03	Medicine schedules to include times and dose
FR04	Reports back to provider
FR05	Easy to use interface
FR06	Provider alerts if the patience missed their medicines
FR07	Weekly reports for adherence back to provider
FR08	Ability to update and manage patients' account store data both prov. and pat.
FRN	

3. Non-Functional Requirements

NFR01	Scalability
NFR02	Responsive
NFR03	Compatibility
NFR04	Integration of coding langs. needed
FRN	

4. Use Case Specification

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

UC01 Name:	SEND MEDICINE REMINDERS				
Description:	Send notifications				
Actor:	Patient, system				
Entry	Patient has meds registered in the system.				
condition:					
Basic path:	1. System checks the patient's med schedule.				
	2. Sends notifications and receives notifications on admin end				
	-				
Alternative	[A01]				
paths:	1. Patient changes reminder time				
	-User updates the reminder time on app or over the web				
	-System updates reminder schedule.				
	[A02]				
	2. Notifications fails to send -The program fails to send the reminder notifications due to network issues.				
	-System error with meds taking logs.				
Exception	[E01]				
paths:	1. The patient disables the reminders for the program.				
	2. The system fails to send reminders				
Business	[BR01] . program must send reminder within 1 minute				
Rules:	[BR02] . receives reminders through multiple channels				
Data					
description	Name Type Length Mask				

	patient id	integer	10	n/a
	meds	string	255	n/a
	name			
	reminder time	time	n/a	hh
	reminder channels	string	50	n/a
Prototype:		_	ations reminder	_
	[PROUZ] Pat	ient sets ren	ninder preferend	ces

UC02 Name:	logging med	ls intake		
Description:			as taken their so	cheduled dose of meds and
Description.	logs whether a patient has taken their scheduled dose of meds and system records the response.			
Actor:	patient, system			
Entry				ngs them
condition:	receives a ii	receives a meds reminder or manually logs them		
Basic path:	3.			
	_			
Alternative	[A01]			
paths:	1.Patient	changes ent	ry log	
	- Able to	edit log ent	ry	
	- Able to	revisit med	logs to see if m	ed logs was missed or
	forgotten			
	[A02]			
	2. Patient m	anually logs	meds	
	- receiv	ed a remind	er but has to ma	anually confirm meds were
	taken	•		
Exception	[E01]			
paths:		nt skips logs		
Partition		-		
	 patient ignores the remainder and fails to log if med 			der and fails to log if meds
	were taken			
	 system marks meds as logged or unlogged 			
Business	[BR01] . pat	ient must log	meds within 4	hours of scheduled time
Rules:		_		in 24 hrs of original
_			- 0	- U
Data				
description	Name	Туре	Length	Mask
	pat. id	integer	10	N/A
	med id	integer	10	N/A
	log status	string	10	"taken"/"missed"
	II 106 status	1 301118	1 10	taken / missed

	log timestam p	datetime	N/A	yyyy-mm-dd hh
Prototype:	[PRO02]		e with "taken" a	and "missed" options. s.

UC03 Name:	medication a	adherence re	ports		
Description:	generates a report for healthcare providers; example summarizing				
	pat. meds adherence over treatment time.				
Actor:	Provider, sys	tem			
Entry	provider req	uest a repor	t for a specific	patient	
condition:					
Basic path:	4. provider logs into system				
	-provider is giving reports				
	- system retrieves meds logs for specified time periods				
Alternative	[A01] report	for multiple	patients		
paths:	-healt	hcare selects	s multiple patie	nts	
	[A02] custor	n report per	iod		
			or specified date	es	
		•	•		
	-able to select a date range for a report				
Fyenting	[[01] detec	المماني من مناملا			
Exception	[E01] dates not available -notifies the provider if there is no data available for specified				
paths:		•	der if there is no	data avaliable for specified	
	period	15.			
Business	[BR01] .system must generate a report within 10 seconds				
Rules:			clude patients a	dherence rate, doses taken,	
	and missed of	doses.			
Data					
Data		<u> </u>	1.	T	
description	Name	Туре	Length	Mask	
	pat. id	integer	10	N/A	
	adherence	float	N/A	percentage	
	rate	ala to	N1 / A		
	reports	date	N/A	yyyy-mm-dd	
	periods	integer	NI/A	NI/A	
	doses	integer	N/A	N/A	
	taken				

[PRO01] adherence report interface with summary and detailed views
[PRO02]options to export in a pdf format or export in general