Software Requirement Specification

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1. Project Description

Mental Health Support App

Our Mental Health Support App is built to make mental health care more accessible and personal. It will connect users with local mental health resources based on their location, making it easier to find therapists, support groups, and other nearby services. For people who prefer online care, the app will also offer options for virtual therapy sessions, providing the flexibility to speak with a professional from where they feel the most comfortable. Along with professional support, the app will encourage daily mood tracking and journaling, giving the users a place to reflect on their feelings and monitor their emotional well being. The goal is to provide thoughtful and personalized suggestions that help users feel more in tune with their mental health.

2. Functional Requirements

FR01	Mental Health Resources Page
	The software must enable users to access mental health resources, including
	nearby and virtual therapists, receive activity suggestions such as visiting parks,
	gyms, art classes, or playing sports, and incorporate their favorite hobbies into a
	personalized mental health plan.
FR02	Mood Tracker and Journal
	The software must enable users to track their mood with daily check-ins and
	provide journal or reflection questions to encourage regular monitoring and
	reflection on their emotional well-being.
FR03	Al-driven personalized advice chat
	The software must enable users to receive AI-driven personalized advice through
	a chat feature, offering tailored suggestions based on the users' inputs.

3. Non-Functional Requirements

NFR0	The app must have an intuitive and user-friendly interface, allowing first-time users to
1	navigate all major features (e.g., accessing mental health resources, mood tracking, and
	journaling) with no more than three clicks.
NFR0	The app must load the main interface within 3 seconds to enhance user engagement
2	and satisfaction.

NFR0	The app must provide clear error messages and guidance for users when an action fails
3	(e.g., failed login attempts or resource access issues) to enhance user understanding and
	minimize frustration.

4. Use Case Specification

UC01 Name:	Mental health resources					
Description:	The software allows users to find therapists, receive activity suggestions, and					
Actor:	find ways to incorporate their hobbies into a personalized mental health plan. User					
Entry condition:	The user selects the Mental Health Resources Tab.					
Basic path:	 The user opens the Mental Health Support App.[BR01] The user selects the "Resources" tab where there will be two sections: 					
	 Find Your Therapist Section: The app displays the "Find Your Therapist" section. The user chooses to find a therapist either virtually or in person.[A01] [A02] [E01] [PRO01] Enable Location Services: If selecting in-person options, the app prompts the user to enable location services. View Therapist List: The app displays a list of therapists based on the user's preferences and location.[BR02] [BR03] Select Therapist: The user selects a therapist to view more information and contact options. 					
	 Other Resources Section:[BR04] [BR05] The user scrolls to the "Other Resources" section, which includes various activities, gyms, parks, and actionable tips. The app displays various options for activities to improve well-being. Explore Activities: The user selects specific activities or hobbies to learn more about them. 					
Alternative paths:	 [A01] No Therapists Found If no therapists match the search criteria, the app informs the user and suggests checking virtual options or modifying filters. [A02] Data Fetching Error If there's an error fetching therapists or activities, the app displays an 					
Exception paths:	error message and offers options to retry or return to the main menu. [E01] No Therapists Found					

- Scenario: No therapists match the search criteria. This could be due to no therapist being found at the specific location.
- Response: Message indicating "No therapists found. Please adjust your search criteria."

[E02] Failed to Load Resources

- Scenario: Error loading resources due to network issues.
- Response: Message stating "Unable to load resources. Please check your internet connection."

Business Rules:

[BR01] User Authentication: Users must create an account and log in to access personalized features and resources within the app.

[BR02] Therapist Verification: All therapists listed in the app must be verified and licensed in their respective states or countries to ensure users receive legitimate support.

[BR03] Location Accuracy: The app must accurately detect user location for in-person therapist searches and provide nearby options based on the current location or manually entered zip code/city.

[BR04] User Preferences: The app must allow users to customize their preferences for therapist searches (e.g., specialty, availability) and activity suggestions (e.g., type of activities, location).

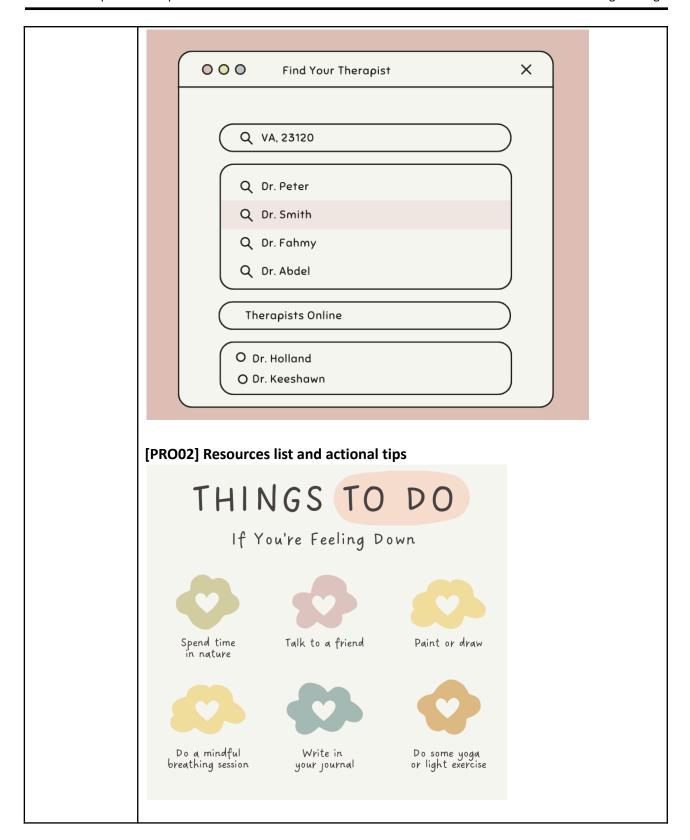
[BR05] User Notifications: Users must receive timely notifications for reminders related to mood tracking, therapy sessions, and new activity suggestions based on their preferences.

Data description

Name	Туре	Length	Mask
Location	String	50	VA, 23120
Therapist Name	String	50	FirstName
			LastName
Therapist Description	String	1000	Paragraph
Activities List	String Array	1000	List

Prototype:

[PRO01] Find your therapist either in person based on your location or online.



UC02 Name:	Mood Tracker and Journal			
Description:	Track the user's mood with daily check-ins and provide journal or reflection			
	questions to encourage regular monitoring and reflection on their emotional			
	well-being.			
Actor:	The User			
Entry	The user selects the "Journal" option			
condition:				
	The user must be logged into the app and access the mood tracker and journal			
	feature from the main menu or dashboard			
Basic path:	The program displays three options to the user			
	2. The user opens the mood tracker and journal section			
	3. The system prompts the user with a mood check-in for the day (ex:			
	"how are you feeling?",)[PRO01] [BR01]			
	4. The user selects an emotional state from a predefined list (ex: happy,			
	sad, excited, anxious,)[E01]			
	5. The system then provides journal or reflection questions (ex: "what			
	made you feel this way", "What can help you improve you improve your			
	mood?")[PRO02]			
	6. The user writes responses to the journal questions in a text field[A01]			
	[A02] [BR01]			
	7. The system saves the user's mood entry and journal responses for that			
	day			
	8. The system displayed a visual representation of the user's mood trends			
	over time (like a mood chard)[BR02]			
	9. And as a bonus, the system can display a cool animation while showing			
	the chart (it could animate building the chart)			
Alternative	g a same of the sa			
paths:	[A01]			
patris.	The user completes the mood check-in but opts not to answer the			
	journal prompts			
	The system saves the mood entry without journal responses			
	The system saves the mood entry without journal responses			
	[A02]			
	The user can write freely if they do not want to answer a journal			
	prompt			
	The system saves the user's selected journal entry			
Exception	[E01]			
	The user fails to submit a mood check-in for the day			
paths:	The user rails to submit a mood check-in for the day			

	The system may send a reminder notification for the user to complete their daily mood check-in			nplete	
Business Rules:	 [BR01] User Data Confidentiality All user mood entries and journal responses must be encrypted and stored securely [BR02] User Analytics The app may provide the user with weekly or monthly analytics based on their mood data but should not share this information without user consent 			based	
Data					
description	Name	Туре	Length	Mask	
	Mood Entry	String	255 chars	N/A	
	Journal Response	String	2000 chars	N/A	
	Mood Timestamp	DateTime / Int / Double	N/A	N/A	
	User ID	String	50 chars	N/A	
	emoji-k	are you feeling today		ect their mood from an	
	prompt	ts for guided re	flection ut Journal Entry F	a journal entry with option	al

UC03 Name:	Al-driven personalized advice chat			
Description:	A chat feature that offers personalized advice and feedback. The response is			
	based on the user's input, taking the user's specific needs into account.			
Actor:	The User			
Entry	The user selects "Al Advice Chat"			
condition:				
Basic path:	1. The system presents the chat: [PRO01]			
	- The system displays a text box			
	- The text box suggests users to type an input [BR04]			
	- Allows the user to select a preset input (ex. Sleep issues)			
	2. User types their question or statement[A01][E01][E02]			
	3. Chat gives advice and feedback based on input[BR01][BR03][PR002]			
Alternative	[A01] AI Chat			
paths:	1. If the user opts to use a preset input:			
	- A list of suggestions display for users to select from.			
	2. Character limit			
	- Text box has a 400 character limit, with a counter displayed at			
	the bottom (ex. 3/400)			
	3. Unsupported Characters			
	 Special Characters and emojis invalid and ignored by the system 			
Exception	[E01] Empty Field			
paths:	System display message alerting the user if not filling out the text box			
	2. System prompts user to return and insert an input			
	[E02] Character Limit exceeded			
	System warns user when character limit has been exceeded System are made user to return and modific in put.			
	System prompts user to return and modify input			
Business				
Rules:	[BR01] Responses			
itales.	- Chat bot responses can not exceed 1000 characters			
	[BR02] Chat input			
	- Chat input can not exceed 400 characters			
	[BR03] Response Styles			
	Direct Advice: Provide straightforward answers or recommendations.			
	Guided Exploration: Lead users through a series of questions to refine			
	their needs and offer personalized insights.			
	 Resource Sharing: Offer links to articles, videos, or tools based on user 			
	input.			
	[BR04] User Input Types			

Data				
description	Name	Туре	Length	Mask
	topics	String	240	
	userQuestions	String	400	
	chatbotResponses	String	1000	
Prototype:	[PRO01] UI where the u	sers can ask o	questions and	get generated answers
	1 Welcome to Cha		•	
	Your Al-driven assista	nt for all men	tal health rela	ted queries.
	Feel Free to ask me anything t	from the topics bel	low!	
	Stress and Anxiety			
	 Depression and Low Mood 			
	Relationship Issues			
	Self-Esteem and Self-WorthGrief and Loss			
	 Grief and Loss Loneliness and Isolation 			
	Workplace Stress			
	Goal Setting and Motivation			
	Sleep Issues			
	Career and Life Goals			
	o And so much more			
	Your museties			
	Your question What do you want to ask about?	,		
	ChessBot Response			
	ChessBot will respond here			
	[PRO02] Chatbot giving	a personalize	ed answer bas	ed on the question ask
	Your question			
	i'm feeling stressed			