Mental Health System Use Cases

Use Case ID:	UC-1.0.0
Use Case Name:	Interact with Mental Health Support System
Actors:	Primary Actor: User
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	Secondary Actors:
	- Authentication Service
	- AI Therapist System
	- Human Therapist
	- System Administrator
Preconditions:	1. System is operational and accessible
	2. Authentication service is available
	3. User has internet connection
	4. AI Therapist system is operational
	5. Database system is functional
Postconditions:	1. User profile is created/updated
	2. Session data is recorded
	3. Treatment plan is established or updated
	4. Progress metrics are stored
	5. Critical cases are properly escalated if necessary
Normal Flow:	1. User initiates login/registration process
	2. System validates user credentials
	3. System sets up/loads user profile
	4. User engages with AI Therapist chatbot
	5. System analyzes user responses
	6. System performs mental health condition diagnosis
	7. System generates personalized treatment plan
	8. System provides guided self-care programs
	9. System tracks user progress
	10. System generates progress report
	11. User session is saved and closed
Alternative Flows:	Alternative Flow 1 - Critical Case Detection
	6a. During diagnosis, if system detects critical case:
	1. System flags case as critical
	2. System notifies human therapist
	3. System provides immediate resources to user
	4. Case is escalated to human therapist
	5. Resume at step 7 with human therapist oversight
	Alternative Flow 2 - Authentication Failure
	2a. If credential validation fails:

	1. System displays error message
	2. User is prompted to retry or reset credentials
	3. If successful, resume at step 3
	4. If unsuccessful after 3 attempts, account is locked
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 - Data Security Breach
	1. If security breach is detected:
	- Administrator is immediately notified
	- Affected sessions are suspended
	- Security protocols are activated
	- Users are notified of potential data exposure
	Exception 3 – Overwhelmed system
	1. if system is overwhelmed:
	- Administrator is immediately notified
	- Administrator tries to load off the system
	- Users are notified of potential slow responses

Use Case: User initiates login/registration process

Use Case ID:	UC-1.0.1
Use Case Name:	User initiates login/registration process
Actors:	Primary Actor: User
	Secondary Actors: Authentication Service
Preconditions:	User has access to the login page.
	Authentication Service is available.
Postconditions:	User is logged into the system.
	User profile is created or updated.
Normal Flow:	1. [User initiates login/registration process]
Alternative Flows:	Alternative Flow 1 - Authentication Failure
	[Action]a. If credential validation fails:
	1. System displays error message
	2. User is prompted to retry or reset credentials
	3. If successful, resume.
	4. If unsuccessful after 3 attempts, account is locked

	temporary.
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 - Data Security Breach
	1. If security breach is detected:
	- Administrator is immediately notified
	- Security protocols are activated

Use Case: System validates user credentials

Use Case ID:	UC-1.0.2
Use Case Name:	System validates user credentials
Actors:	Primary Actor: User
	Secondary Actors: Authentication Service
Preconditions:	User entered his data
Postconditions:	User profile data exists.
Normal Flow:	1. [System validates user credentials]
Alternative Flows:	-
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information

Use Case: System sets up/loads user profile

Use Case ID:	UC-1.0.3
Use Case Name:	System sets up/loads user profile
Actors:	Primary Actor: User
	Secondary Actors: Authentication Service
Preconditions:	Authenticated user
	Al-Therapist is available.
	User profile exists.
Postconditions:	User data loaded
	User free to interact
Normal Flow:	1. [System sets up/loads user profile]

Alternative Flows:	-
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 – Loading Filure
	[Action]a. If Loading filled:
	1. System displays error message
	2. System attempts fixing
	3. System suggests try log in other time

Use Case: User engages with AI Therapist chatbot

Use Case ID:	UC-1.0.4
Use Case Name:	User engages with AI Therapist chatbot
Actors:	Primary Actor: User
	Secondary Actors: AI Therapist
Preconditions:	User data loaded
	User have access to Interact
Postconditions:	User has interacted with Al-Therapist.
	User data is collected and analyzed.
Normal Flow:	1. [User engages with AI Therapist chatbot]
Alternative Flows:	
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 3 – Overwhelmed system
	1. if system is overwhelmed:
	- Administrator is immediately notified
	- Administrator tries to load off the system
	- Users are notified of potential slow responses

Use Case: System analyzes user responses

Use Case ID:	UC-1.0.5
Use Case Name:	System analyzes user responses

Actors:	Primary Actor: User
	Secondary Actors: AI Therapist
Preconditions:	User data collected and validated
Postconditions:	System produces responses based on it
Normal Flow:	1. [System analyzes user responses]
Alternative Flows:	-
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 – Invalid data
	- System tries to generate another data

Use Case: System performs mental health condition diagnosis

Use Case ID:	UC-1.0.6
Use Case Name:	System performs mental health condition diagnosis
Actors:	Primary Actor: User
	Secondary Actors: AI Therapist
Preconditions:	User has records of treatment
	User data is valid
	User profile exists
Postconditions:	Provide detailed log of diagnosis and recommendations
Normal Flow:	1. [System performs mental health condition diagnosis]
Alternative Flows:	-
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 – Invalid data
	- System tries to generate another data

Use Case: System generates personalized treatment plan

Use Case ID:	UC-1.0.7
Use Case Name:	System generates personalized treatment plan

Actors:	Primary Actor: User
	Secondary Actors: AI Therapist
Preconditions:	All user data has been validated
	User accepted to receive the personalized treatment plan.
Postconditions:	System sets another schedule for user
Normal Flow:	1. [System generates personalized treatment plan]
Alternative Flows:	-
Exceptions:	Exception 1 - System Failure
	1. During any step, if system experiences technical failure:
	- Session data is auto-saved
	- User is notified of technical issues
	- Administrator is alerted
	- User is provided emergency contact information
	Exception 2 - Data Security Breach
	1. If security breach is detected:
	- Administrator is immediately notified
	- Affected sessions are suspended
	- Security protocols are activated
	- Users are notified of potential data exposure

Use Case: System provides guided self-care programs

Use Case ID:	UC-1.0.8	
Use Case Name:	System provides guided self-care programs	
Actors:	Primary Actor: User	
	Secondary Actors: AI Therapist	
Preconditions:	System has enough data to guide user	
Postconditions:	System annotate user to ask the human therapist for	
	critical situations.	
Normal Flow:	1. [System provides guided self-care programs]	
Alternative Flows:	-	
Exceptions:	Exception 1 - System Failure	
	1. During any step, if system experiences technical failure:	
	- Session data is auto-saved	
	- User is notified of technical issues	
	- Administrator is alerted	
	- User is provided emergency contact information	

Use Case: System tracks user progress

Use Case ID:	UC-1.0.9
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Use Case Name:	System tracks user progress	
Actors:	Primary Actor: User	
	Secondary Actors: System Administrator	
Preconditions:	User profile exist	
	Not new comer	
Postconditions:	System reports to user every session about the progress	
Normal Flow:	1. [System tracks user progress]	
Alternative Flows:	-	
Exceptions:	Exception 1 - System Failure	
	1. During any step, if system experiences technical failure:	
	- Session data is auto-saved	
	- User is notified of technical issues	
	- Administrator is alerted	
	- User is provided emergency contact information	

Use Case: System generates progress report

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Use Case ID:	UC-1.0.10	
Use Case Name:	System generates progress report	
Actors:	Primary Actor: User	
	Secondary Actors: AI Therapist	
Preconditions:	System generated data to identify user progress	
Postconditions:	System motivates the user to keep working!	
Normal Flow:	1. [System generates progress report]	
Alternative Flows:	-	
Exceptions:	Exception 1 - System Failure	
	1. During any step, if system experiences technical failure:	
	- Session data is auto-saved	
	- User is notified of technical issues	
	- Administrator is alerted	
	- User is provided emergency contact information	
	Exception 2 - Data Security Breach	
	1. If security breach is detected:	
	- Administrator is immediately notified	
	- Affected sessions are suspended	
	- Security protocols are activated	
	- Users are notified of potential data exposure	

Use Case: User session is saved and closed

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Use Case Name:	User session is saved and closed	
Actors:	Primary Actor: User	
	Secondary Actors: AI Therapist	
Preconditions:	User has made modification or interactions	
Postconditions:	System saves session and close.	
Normal Flow:	1. [User session is saved and closed]	
Alternative Flows:	-	
Exceptions:	Exception 1 -Saving Failure	
	- Notify user of unable to save data	
	- Show possible reasons	
	- Warn user of close the session before saving the data	