

Mental Health Assistant

Assignment 2

Comp 2920

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Project Description

The Mental Health Assistant is an app which can be used as a mental health assistance tool. We plan to implement features such as a pill reminder and tracker, an overall mood evaluator, user entered stress/depression/anxiety levels, a medication refill reminder, bios recording and tracking as well as an appointment reminder. Furthermore, we want to give health professionals access to their patient's evaluation and bios reports.

Users and health professionals must first create and log into their own account where they will be required to give information such as name, e-mail, phone number and emergency contact information. The purpose of this is to be able to track their progress. Once logged in, the user will be able to navigate throughout the app via a main menu. The user can select "Medication Info" to enter new medication information which will include medication name, dosage amount and frequency. From there they can edit or delete any information as they so choose.

In "Appointment Tracker", the user can create an appointment as well as edit or delete any appointment they have entered. The purpose of this is to promote organization for someone who may have trouble staying up to date with their engagements. The user can check in with the "Pill Reminder" to ensure they have taken their medication for the day which will prevent situations where they may have forgotten which medication they have taken for the day and which medication they may have forgotten to take. The user will be reminded to take their medication by an alarm which they have set at a specified time. Furthermore, the user can also set a prescription refill reminder, ensuring they never run low of their medication.

The user can enter counsellor, psychiatrist or doctor information with the "Professional Info" option. Fields will include health professional name, address, phone number and e-mail address. The user can also edit or delete information. The "Mental Pick Me Up" is a section that will include a series of non-offensive jokes or pictures which can serve as a mental and emotional boost for the user.

Under the "Evaluation" option, the user can enter their daily overall mood which will consist of three options: a happy face, a content face and a sad face. On scales of 1-10, the user may also enter their current anxiety, depression and stress levels. This will be used to historically track their progression. In addition to mood tracking, the Mental Health Assistant will also record bios including pulse, heart rate and blood pressure. Much like the mood evaluation, this will allow the user to see what kind of progress they have made health wise. Recorded information will be stored to an external storage database.

From the health professional perspective, they will be required to create an account using special credentials. They must provide their name, office address, e-mail address, phone number and there will be a verification process ensuring they are a legitimate health professional. Once logged into the app, the health professional will have the option to add or remove a patient to or from their "List of Patients". They will also be able to provide feedback which will be e-mailed directly to the client. Finally, the health professional will be able to view the user's evaluation scores and recorded bios information. This will allow the health professional to keep up to date with how their patient is doing as well as give them the ability to view their patient's history.

List of Candidates

Account (concept)	Medication info (simple value, attribute)
Address (simple value, attribute)	Medication name (simple value, attribute)
Alarm (event)	Medication refill (event)
Anxiety (concept)	Mental (concept)
App (not an object)	Mental Health Assistant (concept)
Appointment (event)	Mental Pick Me Up (concept)
Appointment reminder (event)	Mood evaluation (not an object)
Appointment tracker (concept)	Mood tracking (event)
Bios (simple value, attribute)	Name (simple value, attribute)
Blood pressure (simple value, attribute)	Office address (simple value, attribute)
Boost (concept)	Patient (role played)
Client (role played)	Patient History (concept)
Content face (simple value, attribute)	Phone number (simple value, attribute)
Counsellor (role played)	Pill reminder (event)
Delete (event)	Pill tracker (event)
Depression (concept)	Prescription (tangible)
Diastolic (simple value, attribute)	Prescription refill (event)
Doctor (role played)	Professional Info (simple value, attribute)
Dosage (simple value, attribute)	Progress (conceptual)
Dosage amount (simple value, attribute)	Progression (conceptual)
Dosage Frequency (simple value, attribute)	Psychiatrist (role played)
E-mail (simple value, attribute)	Pulse (simple value, attribute)
E-mailed (event)	Recorded (event)
Edit (event)	Recorded bios (simple value, attribute)
Emergency contact info (simple value, attribute)	Refill (event)
Emotional (concept)	Reminded (event)
Engagements (event)	Reminder (event)
Evaluation (event)	Reports (concept)
Evaluation scores (simple value, attribute)	Sad face (simple value, attribute)
External storage (other systems)	Scales 1 – 10 (simple value, attribute)
Fax (event)	Situation (event)
Feedback (conceptual)	Someone (role played)
Fields (simple value, attribute)	Special credentials (simple value, attribute)
Forgotten (not an object)	Specified time (simple value, attribute)
Frequency (simple value, attribute)	Stress (concept)
Happy face (simple value, attribute)	Stress level (simple value, attribute)
Health professional (role played)	Systolic (simple value, attribute)
Heart rate (simple value, attribute)	Tool (concept)
Historically tracked (event)	Track (event)
Information (simple value, attribute)	Tracker (conceptual)
Legitimate (not an object)	Tracking (event)
Levels (conceptual)	Users (role played)
List of patients (conceptual)	Verification process (not an object)
Log-in (event)	View (event)
Main menu (conceptual)	
Medication (tangible)	

Revised List of Candidates

Account (concept)	List of patients (conceptual)
Address (simple value, attribute)	Log-in (event)
Alarm (event)	Medication name (simple value, attribute)
Anxiety (concept)	Medication refill (event)
Appointment (event)	Mental Pick Me Up (concept)
Blood pressure (simple value, attribute)	Name (simple value, attribute)
Delete (event)	Patient History (conceptual)
Depression (concept)	Phone number (simple value, attribute)
Dosage amount (simple value, attribute)	Pill tracker (event)
Dosage Frequency (simple value, attribute)	Professional Info (simple value, attribute)
E-mail (simple value, attribute)	Progress (conceptual)
Edit (event)	Recorded bios (simple value, attribute)
Evaluation (event)	Reports (conceptual)
Evaluation scores (simple value, attribute)	Specified time (simple value, attribute)
External storage (other systems)	Stress (concept)
Feedback (conceptual)	Track (event)
Health professional (role played)	Users (role played)
Heart rate (simple value, attribute)	View (event)

Relationships

Phrase	Association
When a user completes a mood evaluation, they will rate their current level and be asked questions based on their current mental wellbeing.	Does
A user and health professional may only create one account. Required account information will include their name, address, phone number, email and login information.	Has a
A user can set a pill reminder. However, to do so the user must enter the medication information.	Includes
A user can specify which health professional their entered appointment is with.	Is With
A health professional has access to a list of users (patients).	List of
A user can make appointment reminders.	Makes
A user measures their bios with an external device. This device works in conjunction with the Mental Health Assistant, recording their heart rate and blood pressure.	Measures
A health professional has access to a user's mood evaluation reports.	Reports
A user can edit and view their health professional's information.	Sees
A user can set pill reminder times.	Sets
A user specifies which medication they take.	Takes

