

# Domain Model: Class Diagrams

## Team Meeting Minutes

**Team ID:** 1pm OJ Capri Sun

**Date:** 1/27, 1-2pm

### Team Members (Name)-Role

1. Feiyue (Curtis) Zhang-Participant
2. Mia Vu-Recorder
3. Sazeda Sultana-Participant
4. Tong Ge-Participantrrr
5. Tyler Mun-Facilitator

### Agenda for this meeting:

#### List of agenda items

#### Outcomes

1. Work on homework 3-Achieved
2. Schedule when to meet -Achieved
3. Delegate work-Achieved

#### Problems encountered

#### Resolution

1. Some confusion on the homework objectives, but managed to clarify and delegate work effectively.

#### Plans for next meeting:

#### Responsibility

#### Activity

1. Work on homework 3

2. Ask some more questions for the other team.

**Team ID:** OJ Capri Sun

**Date:** 1/29, 2-4pm

**Team Members (Name)-Role**

1. Feiyue (Curtis) Zhang -Participant

2. Mia Vu-Recorder

3. Sazeda Sultana-Participant

4. Tong Ge-Participant

5. Tyler Mun-Facilitator

**Agenda for this meeting:**

**List of agenda items**

**Outcomes**

1. Ask some more elicitation questions-Achieved
2. Work on homework 3-Achieved

**Problems encountered**

**Resolution**

1. Unclear on some aspects of functions-Clarified

**Plans for next meeting:**

**Responsibility**

**Activity**

1. Work on homework 3 and finish the final touches

**Team ID:** OJ Capri Sun

**Date:** 2/3,1-2pm

**Team Members (Name)-Role**

- 1.Feiyue (Curtis) Zhang -Participant
- 2.Mia Vu-Recorder
- 3.Sazeda Sultana-Participant
- 4.Tong Ge-Participant
- 5.Tyler Mun-Facilitator

**Agenda for this meeting:**

**List of agenda items**

**Outcomes**

1. Work on homework 3-Achieved
2. Schedule when to meet online-Achieved
3. Delegate even more work-Achieved

**Problems encountered**

**Resolution**

1. Many conflicts in scheduling-Rescheduled to establish proper meeting times

**Plans for next meeting:**

**Responsibility**

**Activity**

1. Work on homework 3 and finish the final touches

**Field Notes**

## Requirement Elicitation

1. Have you ever used any mental health applications?
  - a. No prior experience with mental health applications
2. How do you feel about meeting with a specialist physically for mental health assistance?
  - a. An important option to have and make available.
3. What steps would you take to make an appointment with a specialist?
  - a. Scroll through the list of doctors with their profile show on the left and all of their available times that week on the right.
  - b. Can filter through specialization or date
  - c. Click on available date and time to schedule the appointment
  - d. Similar to ZocDoc
  - e. includes doctor profile, contact info, ratings, reviews, availability
  - f. A map that shows users the nearest places to get help if needed
4. What kind of appointments will users be able to schedule?
  - a. Physical/in-person appointments, online individual appointments, online group therapy appointments
5. In what kinds of situations are you most likely to be stressed or anxious?
  - a. During times with lots of assignments due or during midterms + finals periods. Periods of financial stress also cause stress.
6. What features within the app can suggest activities to relieve stress?
  - a. Things like breathing exercises, exercise suggestions, stress relief activities, books, or small games (from outside/3rd party sources)
7. What features within the app should avoid in order to get relief from mental distress?
  - a. Language, especially in advice or suggestions, should not be vague
8. What kind of advice would you prefer to see from experts?
  - a. Professional therapist sessions and stress/anxiety relief tips, calming exercises, tips on how to better relax/concentrate/organize yourself
9. How do you feel about taking assessments to see how you are doing mentally?
  - a. Assessments can be helpful in understanding what students may currently be stressed about or suffering from
10. How will mental health assessments be performed?
  - a. Administered online, with results being manually reviewed by a mental health professional. No automated mental health assessments will be available
11. What would be the most convenient way for users to contact someone for mental health assistance?
  - a. Push of a button, messaging, or call
12. What kind of information would you want a specialist to know about you?

- a. Basic demographic information (ex: name, age, gender) mental health record, and journal. If asked specific questions, user can always decline to share information
13. How much information will administrators/professionals be able to see regarding a patient's mental health history?
- a. Anything that exists on a student's health records, including current diagnoses and prescriptions. The mental health journal featured on this app should also be available for professionals and administrators to view
14. How do you feel about having the function that keeps a record of mental health like a journal?
- a. Can help both user and a mental health professional track a student's moods
15. What kind of physical/emotional features do you see a user wanting to track?
- a. Tracked daily (or as often as a user wants to fill in their journal): mood, stress level, work level, financial stress level, sleep quantity/quality, and any thoughts they had during the day
16. How do you feel about being in group chats with others who are also experiencing mental health problems?
- a. It is a good idea that gives users an opportunity to share their feelings and connect/support/get support from others
17. How do you feel about being able to post discussion boards?
- a. Discussion boards should be places where students can ask for and offer advice. Anonymity is optional, posts are sorted by (preset) topics, and no system for ranking (up/down voting) will exist. Replies to posts are allowed.
18. In what ways would you like our application to use your personal information?
- a. Only medical professionals and administrators can view medical record
19. Is the system available to students no matter where they live?
- a. Available to both on campus and off campus students
20. Does this app require pre-existing health insurance coverage?
- a. Since health insurance is required for all UCI students, it is required. Health insurance does not have to be the UCI-specific insurance plan
21. Why should user anonymity be/not be a concern?
- a. Students may not feel comfortable sharing their thoughts in places like public discussion forums, so anonymity may make it easier for them to consider asking for help or advice. The same is true for one-on-one and group counseling sessions, where their name/face may remain anonymous, but the relevant health professional will still have access to their health records in order to better help them. Anonymity in all these situations will be optional, with the student ultimately allowed to decide if they want to turn the option on or off
22. How often do you see users interacting with and using the system and its services?

- a. Hopefully daily, once a day for journaling purposes. For things such as mental health check-ups and appointments, a regular schedule ranging from weekly to bi-monthly as the student sees fit is ideal
23. What kind of notifications and pop-ups will the system provide to users?
- a. To-do list notifications (customized by user and/or doctors), stress relief advice or suggestions, reminders concerning scheduled or to-be-scheduled appointments
24. How much control will users have over the types of notifications they receive?
- a. Users can turn off or ignore notifications and input their schedule so the system knows "free times" for when notifications are ideal
25. How will preset reminders, advice, and recommendations be created?
- a. They will be uniquely tailored to the student based on any pre-existing mental health conditions and the results of a general assessment (mostly focusing on personal interest areas)
26. How many levels of admin access do you imagine there being?
- a. System administrators will help manage system and have access to all information from students and app staff. Mental health professionals and counselors work for the app and UCI counseling division and have access to all students mental health records and journals
27. How many steps would exist between a user and a professional therapist in the case of emergency situations?
- a. There should be an option to instantly speak to a counselor in cases of emergency. If the counselor deems the situation critical enough, they can connect the student to a more especially trained professional.
28. Who will have access to the system and how will they sign up?
- a. All UCI students, staff, and faculty will have access. They will sign up using their UCInet ID and password.
29. How this app can have features like plans, reminders, recommendations, etc?
- a. There will be a calendar section that will include user's plans and reminders of events and goals
  - b. Recommendation
30. What features in the app should capture the user behavior of the system?
- a. We want to keep track of how often a user logs in, interacts with functions like the journal, forum, or personal feed, and how often they schedule appointments or participate in group therapy sessions
31. How the app can contain features to protect the privacy issues of the users?
- a. Require UCInetID to login
  - b. Only allow medical professionals and administrators to access student information
  - c. Users can be anonymous by choice

32. What action should the system do if the messaging feature fails?
  - a. All messaging services should be put on hold until system tech support can address the issue. Support should be as immediate as possible.
33. Who will learn about the results of someone using features of the app improperly?
  - a. Features like the public discussion board are to be moderated both automatically and manually. Flagged keywords or phrases will be brought automatically to system administrator attention, and they will also have the option to manually sort through posts. Journals are also viewable by both administrators and professionals
34. How do users connect with therapists and counselors?
  - a. Through online messaging (in text, audio, and audio+video form) or by scheduling an in-person appointment
35. What kinds of mental issues can users seek to resolve by using it?
  - a. The system will mainly resolve anxiety, stress, and depression.
36. What appears on the user's feed?
  - a. Upcoming events and advice videos related to a user's personal interests
37. How should the user's feed be constructed?
  - a. Artifacts on the feed are determined by a user's personal interests as determined by an initial personal assessment and matched up by topic (every feed post will have a topic, as determined by the UCI Wellness Center, who is in charge of posting)
38. What can users do with the messaging feature?
  - a. Connect with therapists and counselors for advice as well as join in group therapy sessions
39. Is there any other way for users to interact with the community?
  - a. Public discussion forum with posts sorted by topic and chronologically, featuring comments.
  - b. Online group therapy/support sessions during scheduled times, of max 9 people, Similar to Alcoholics Anonymous in structure.
  - c. Users can like and bookmark posts in their feed.
40. How can users and mental health therapists communicate with each other other than private messages?
  - a. Audio and audio+video messaging, group therapy sessions, or scheduled in-person appointments
41. What kind of mental health information can users get from it?
  - a. UCI organization events concerning mental health
  - b. General automated advice to better their mental health condition
  - c. Professional mental health treatments from medical professionals
42. What kind of user data is needed to learn user's behavior?
  - a. How do users know more about the therapists?

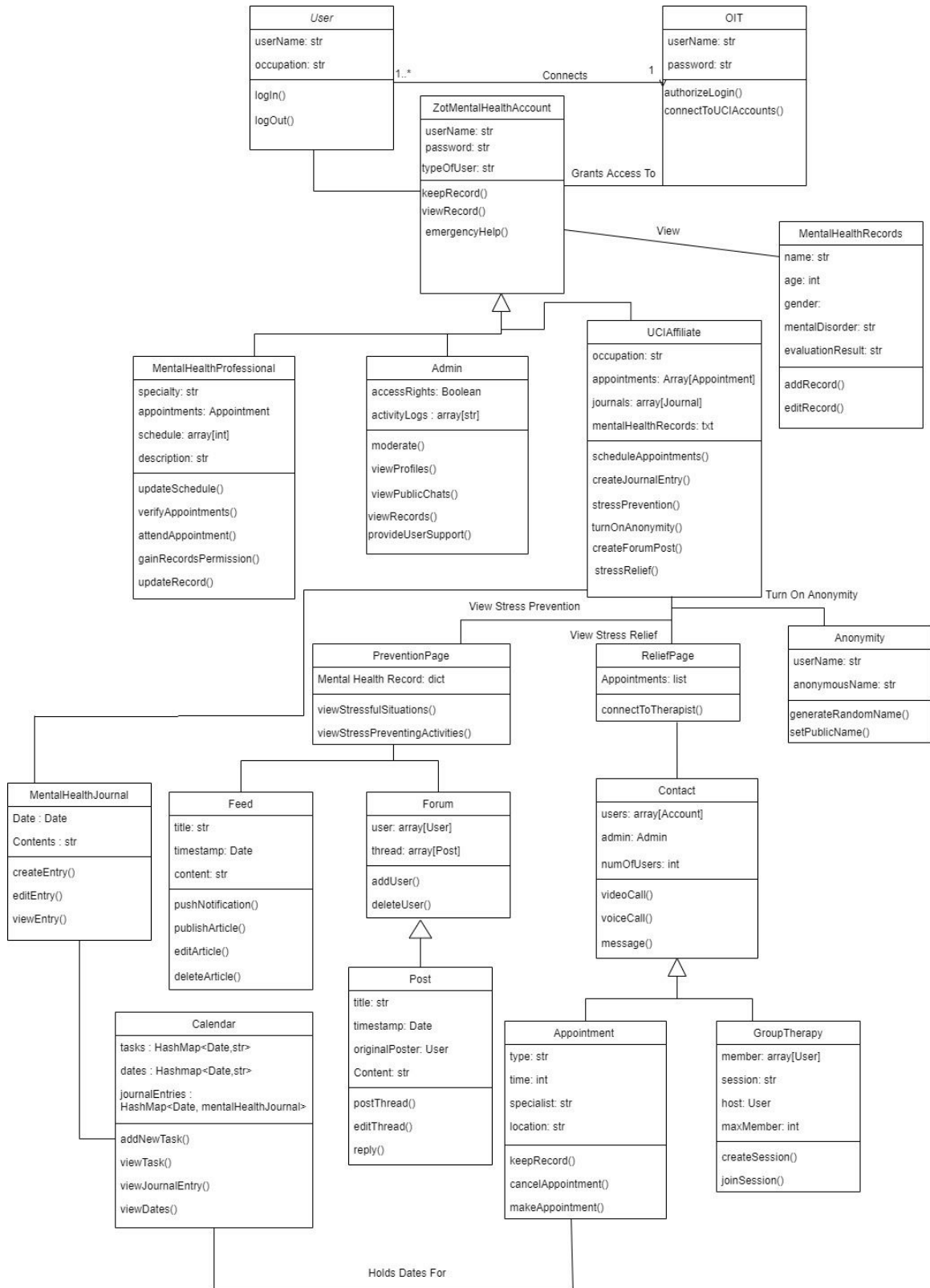
- b. When do users need to have periodical mental health assessments?
- c. How is the health assessment constructed?

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- 43. Should specific am/pm times be taken into consideration for calendar plans and reminders?
  - a. Calendar reminders should use information taken from evaluations and activity logs to better create a custom plan for users by designating specific am/pm times.
- 44. Should there be a diet recommendation function?
  - a. It should be administered by the student wellness center.
  - b. Professionals should also have access to patient information to recommend specific diets to their patients or to all users.
- 45. Should the information from surveys only be used for computer generated custom planning?
  - a. Patients should be able to give access to their survey/evaluation information to their professionals/therapists/doctors.
  - b. The administrators of the app should have access to the information but make sure to keep it anonymous by wiping the associated name and id with the information.



# Class Diagram Model



## Classes

### User

- The person using AntMentalHealth. Is connected to an account by OIT

### OIT

- Office of Information Technology affiliate. Connects a User to an Account

### ZotMentalHealthAccount

- AntMentalHealth account. Has one User.

### UCIAffiliate

- A type of ZotMentalHealthAccount. Emcompasses all students, faculty, and staff that may use the app.

### Admin

- A type of ZotMentalHealthAccount. Has the ability to view and moderate all content within the system. Cannot edit Mental Health Records.

### MentalHealthProfessional

- A type of ZotMentalHealthAccount. Can view all content within the system and only edit Mental Health Records

### Anonymity

- Ensures that UCI Affiliates can contribute to public discussion areas (like Group Therapy or the Forum) anonymously.

### MentalHealthRecords

- This class creates a complete mental health status of any UCI student or faulty. It creates the record through collecting users' name, age, gender, and mental health information. It saves the record and updates the records whenever there is a change in user's personal information. This class allows to view the record with permission.

### PreventionPage

- This class represents how AntMentalHealth prevents any stress-producing situations for students' and faculty's mental health.

### ReliefPage

- This class represents that if students and faculty are already in a stressful situation, then how the AntMentalHealth can help to overcome the situations.

### Contact

- This class represents the different ways in which UCI affiliates are able to communicate with medical professionals/Administrators through AntMentalHealth. Contact keeps track of who is communicating with each other and enables them to choose different methods of contact.

#### Appointment

- This class represents appointments UCI Affiliate users can make. It is a way of contacting Mental Health Professionals to gain assistance. Appointments are available in several different types from online to in-person. Each appointment will contain information like the type, time, place of it as well as which specialist will be assisting the primary user.

#### Calendar

- A collection of tasks, dates, and Mental Health Journal entries, all mapped to specific dates. Every UCI Affiliate has their own calendar, populated by whatever they choose to add.

#### MentalHealthJournal

- A collection of textual journal entries, organized by date. All UCI Affiliates have the ability to keep a Mental Health Journal, and the content can only be viewed by the owner (UCI Affiliate) of the journal, an Admin, or a Mental Health Professional.

#### Feed

- This class represents the daily feed function in the homepage of AntMentalHealth, where articles published by Admin can be seen by users.

#### Forum

- This class refers to the function allowing users to post threads and communicate with each other. Forum is consisted of User and Post.

#### Post

- Derived from Forum, each post must have a title, an automatically-generated timestamp, an original poster, and its content where students share their feelings.

#### GroupTherapy

- This class refers to the event that multiple UCI Affiliates can sign up for and a host (Mental Health Professional) will be there to guide the session.

## Missing Information

### Assumptions:

### *Forum*

We are assuming forum works like other internet forums where multiple categories of topics are provided. In addition, the forum is linked to AnteaterMentalHealth accounts so no sign up will be needed.

### *Group Therapy*

We are assuming there are enough sessions available for users to book.

### **Missing Information:**

1. What types of data can users put on the forum (e.g. image, video, attachment)?
2. When Anonymity is on, can users access other functionalities as usual?