



Project Report

MomsCare

Group Code - EAD119

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Team Details

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Project Description:

MomsCare is a web application which serves as a helping hand for pregnant women and firstborn mothers. It specifies all the necessary personalised precautions ranging from diet, health, growth and booking consultees.

- It provides quick and easy appointments with doctors and counselors to maintain mental and physical health for both the baby and mother.
- Allows access to articles related to mental care which help you to cope with mood swings during and after pregnancy.
- In view of difficulty in parenting, forums provide the best platform to question and interact with other users on the same path.
- Reminders and todos help you in maintaining your health accordingly.

Types of users:

End Users , Doctors, Counselors and admin.



Problem Statement:

- Pregnancy is the difficult phase in a woman's life which requires a lot of medical care and attention.
- Most often mothers are unaware about necessary precautions to be taken for their first pregnancy and parenting firstborns.
- Long waits at the hospital for the check up is stressful.
- Often mental care is neglected during pregnancy and parenting.

MomsCare provides a solution for all the above problems with a user friendly website and provides a platform for women and parents to maintain good health.

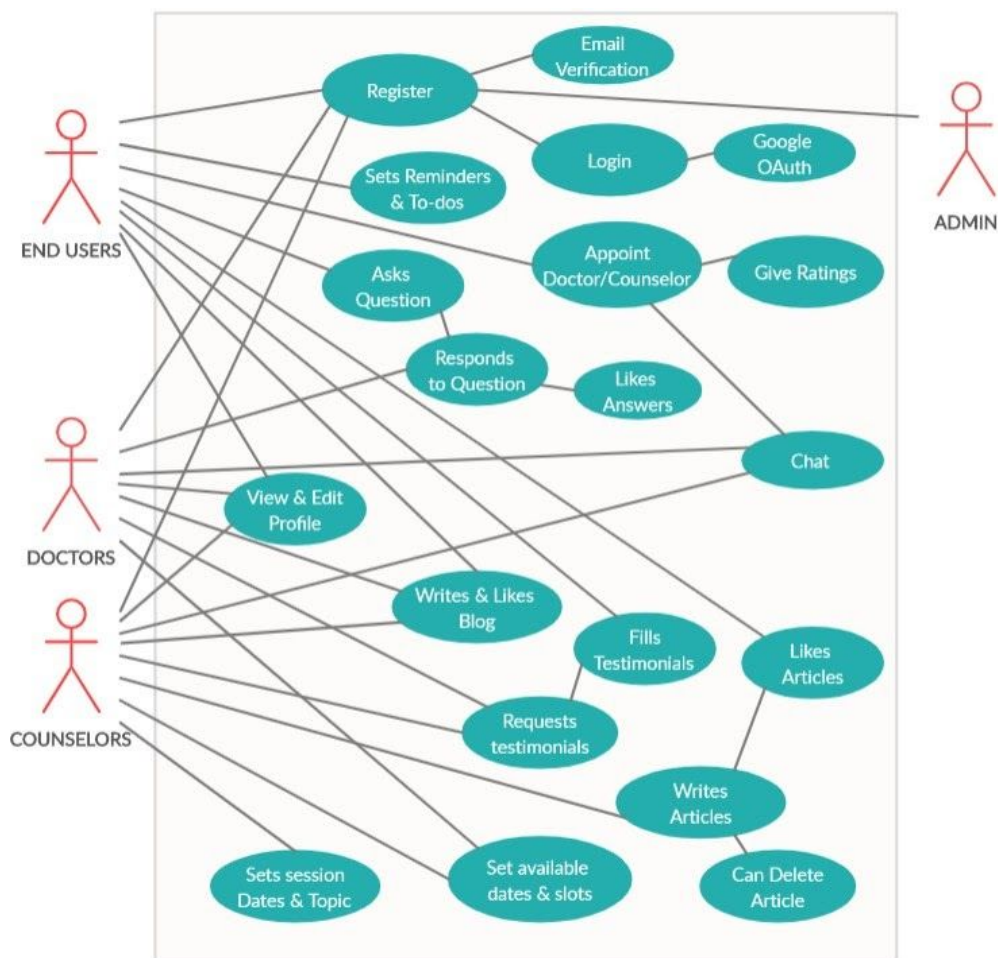
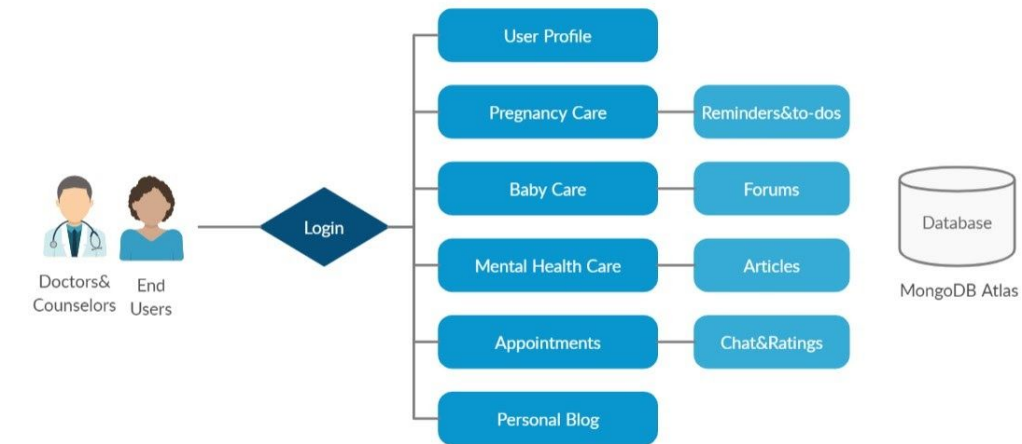


Technologies Used:

- Nodejs
- Mongo Atlas
- Bootstrap, Html, Css

Wireframes : [Link to wireframes](#)

Project Architecture



Use Case Diagram

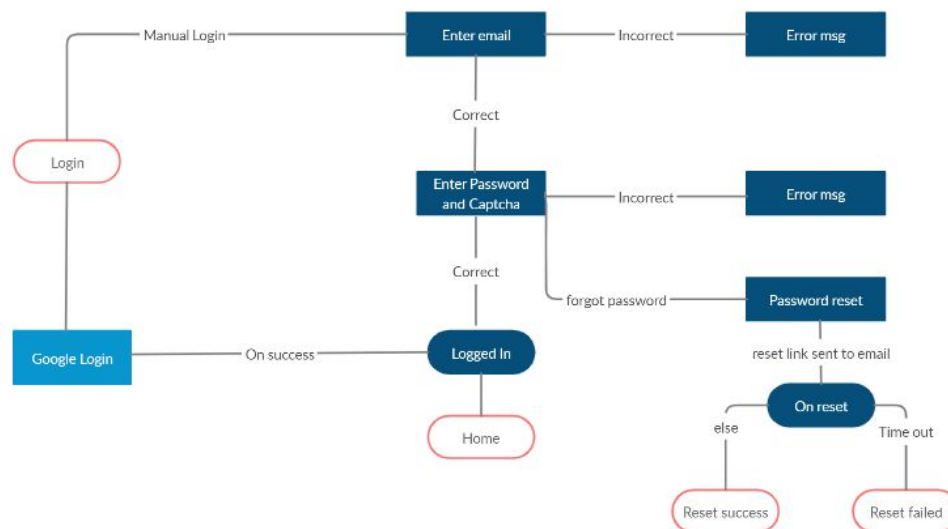
Module I:

Login and registration of all types of users:

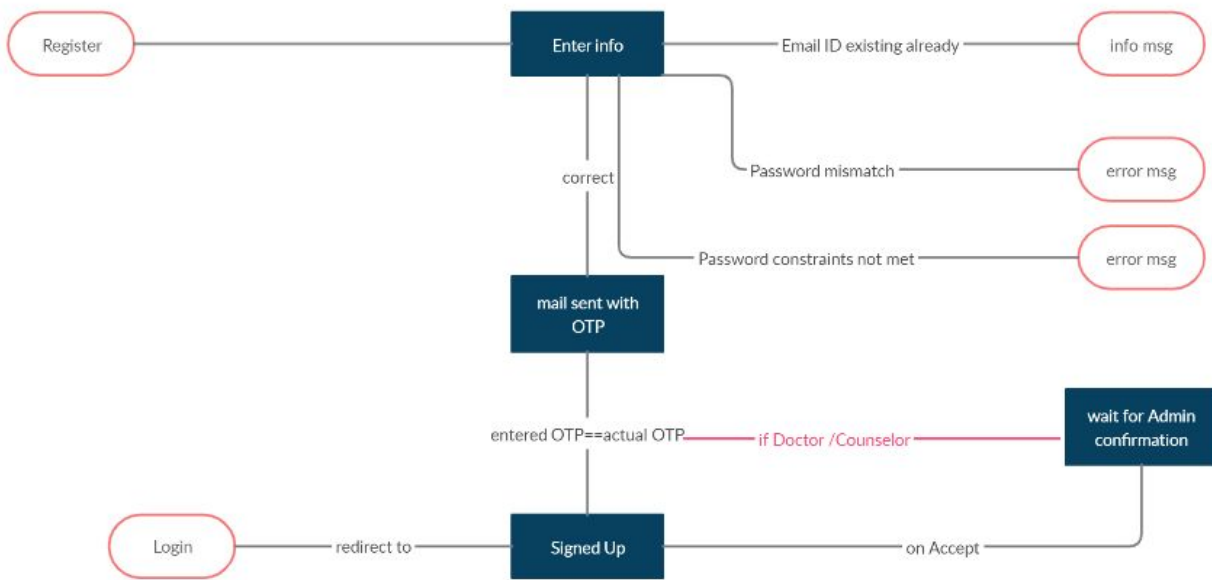
- End Users can avail the services by registering with the application or can use google authentication instead of registering with us.
- Email verification is done at the time of registration.
- Doctors and counselors after registration with the application, their details are sent to the admin for verification and the admin can accept/decline the account accordingly.
- All users are given options to reset their credentials.
- On logging in with registered user credentials and captcha, accounts are verified and are redirected to their respective home pages.

Landing page:

- This page provides information about our application.
- Any user can contact us by filling the contact form, the message reaches support help through mail from the user.



Login Workflow



Signup Workflow

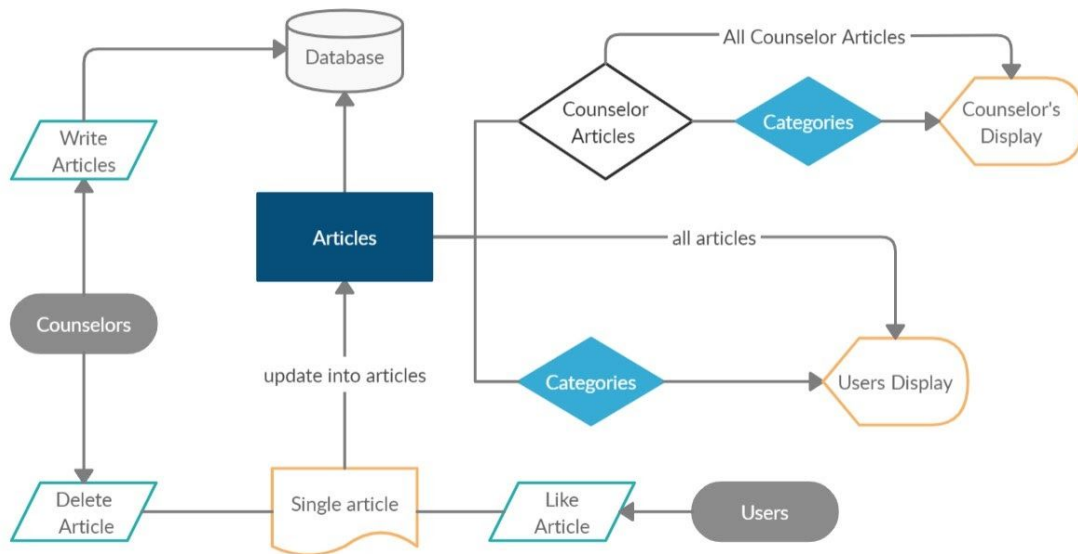
Module II

Mental health articles posts and display:

- Counselors can post articles with videos and images about mental health and wellness.
- Every article posted is categorized into 6 topics.
- All the articles posted by counselors can be viewed and deleted if necessary by the counselor.
- Users can check all articles and filter from each category based on users interest.
- Users can also like the articles.

Display pages of pregnancy and baby care:

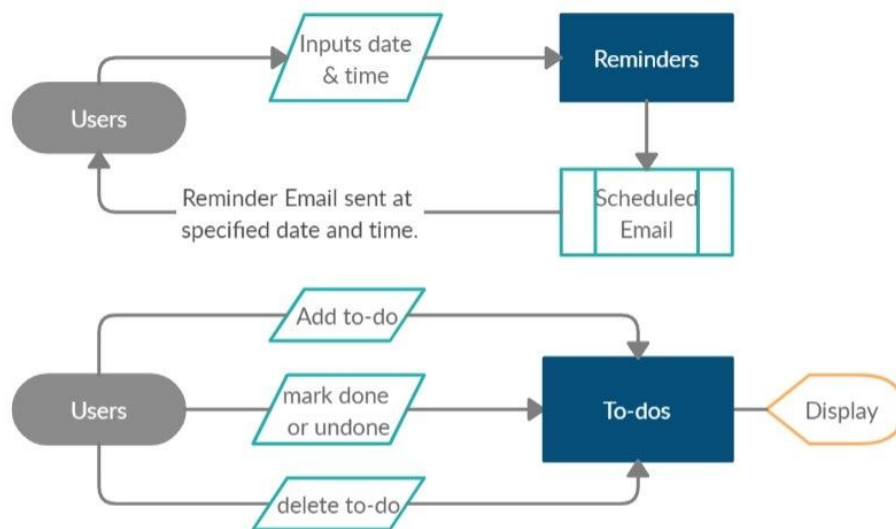
- Provides users with necessary health tips and precautions on pregnancy and baby care with a timeline.
- Home pages ui of admin and users.



Module III:

Reminders and todos:

- Users can add todo items, check and delete each todo to maintain and help him remind of the precautionary measures to be taken.
- Users can set reminders about their health care for any time and date.
- A mail is sent at the time of reminder to the user with his reminder note.

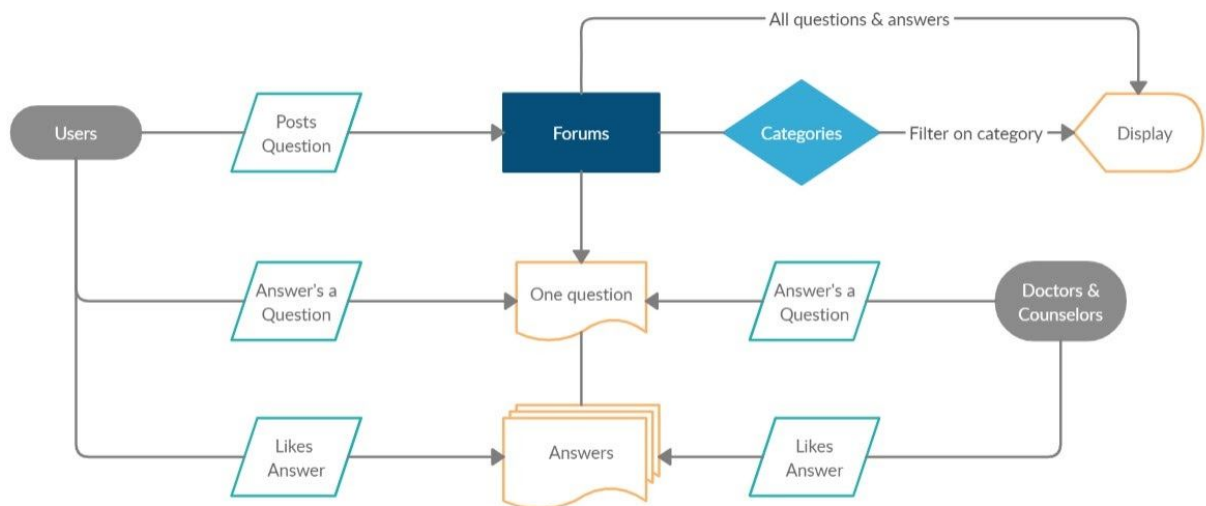


Reminders and to-dos Workflow

Module IV:

Forums:

- Users often have queries about parenting and can post their questions in forums.
- User questions are categorized.
- Users can check the questions and filter from the category of his/her interest.
- Doctors/Counselors can post answers to a particular question. Even users can respond to a forum.
- Users can like a particular answer, so users know the most liked answer for a query question.
- Recent questions are displayed at the side navigation to access quickly.

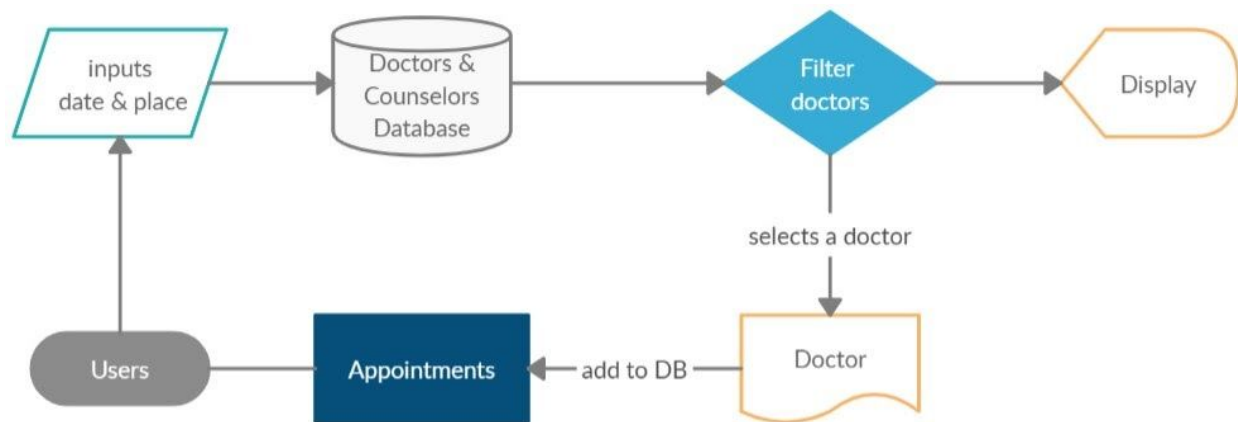


Module V:

Appointment for doctors and counselors:

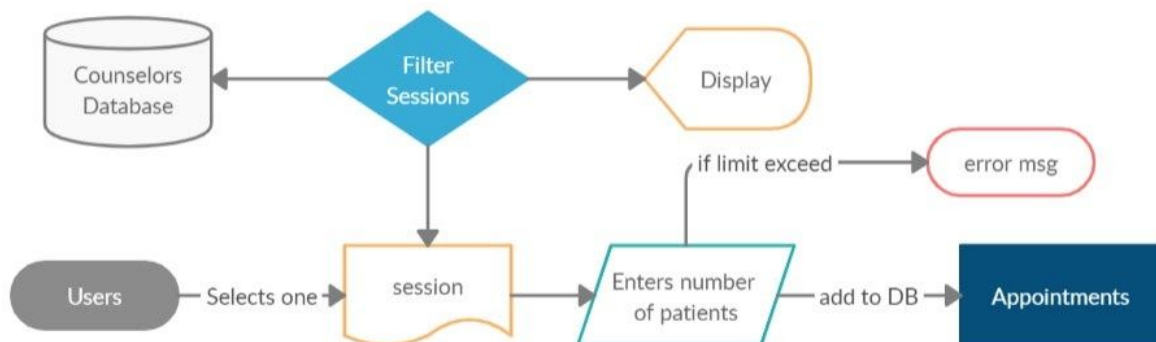
- Users fill the details of date, place and preferable time of appointment.
- Based on the user's query all the available doctors with available time slots for a given date are displayed to the user.
- Users can appoint any doctor with his preferred time slot.

- Users can appoint a gynecologist, pediatrician and counselor based on his/her requirement.



Session Bookings:

- Counselors set the sessions for mental health improvement for a specific number of days on specific topics.
- Users can check on the session details and book for a particular session with a number of participants.

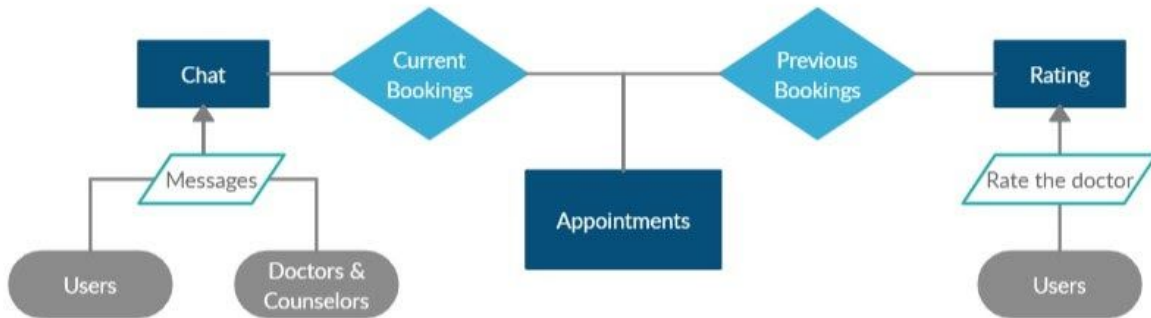


Module VI:

Chat and ratings:

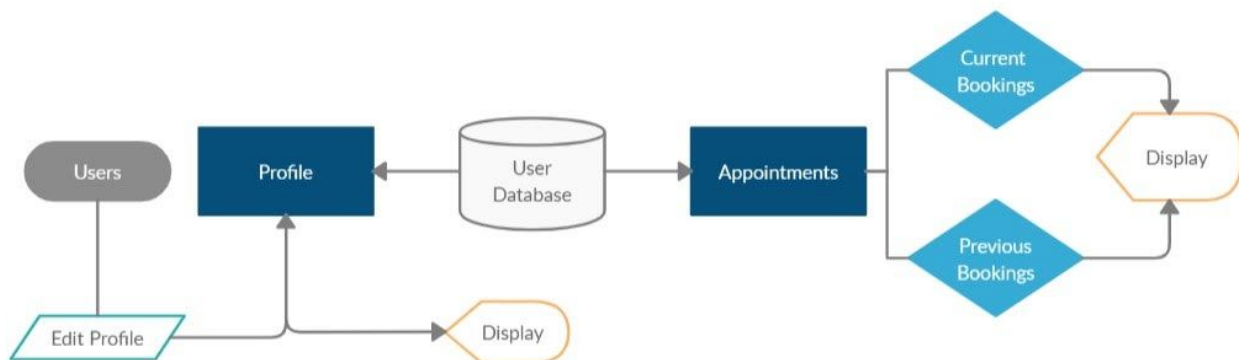
- Users can chat with their current appointment doctor/counselor and clarify any doubts.
- Doctors/counselors can also reply to their current patients.

- Sessions are used to chat one on one.
- Users provide ratings for previous appointments and sessions to doctors and counselors.



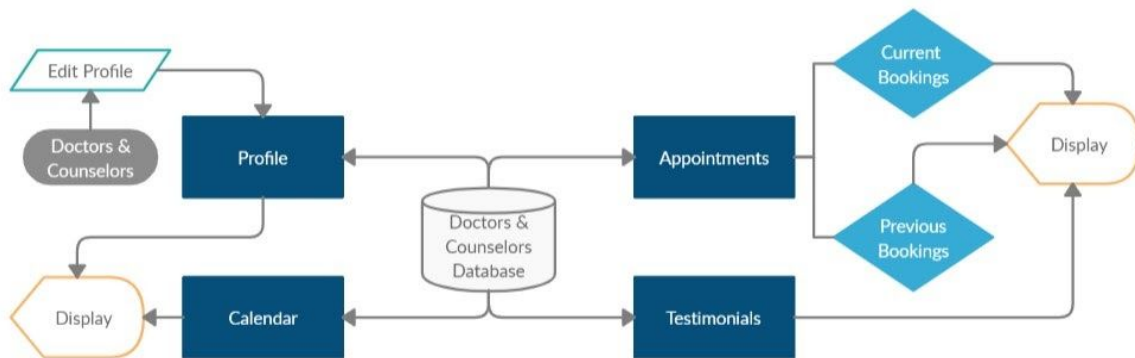
Profile page for users:

- Users have a detailed view of their activities.
- Current and previous appointments are displayed.
- They can also edit user details and change profile pictures.



Profile page for doctors/counselors:

- Doctors/Counselors have a detailed view of their activities.
- Current and previous appointments are displayed.
- Display of his/her own calendar with bookings and free dates.
- All the testimonials of the doctor/counselor can be viewed.
- They can also edit user details and change profile pictures.



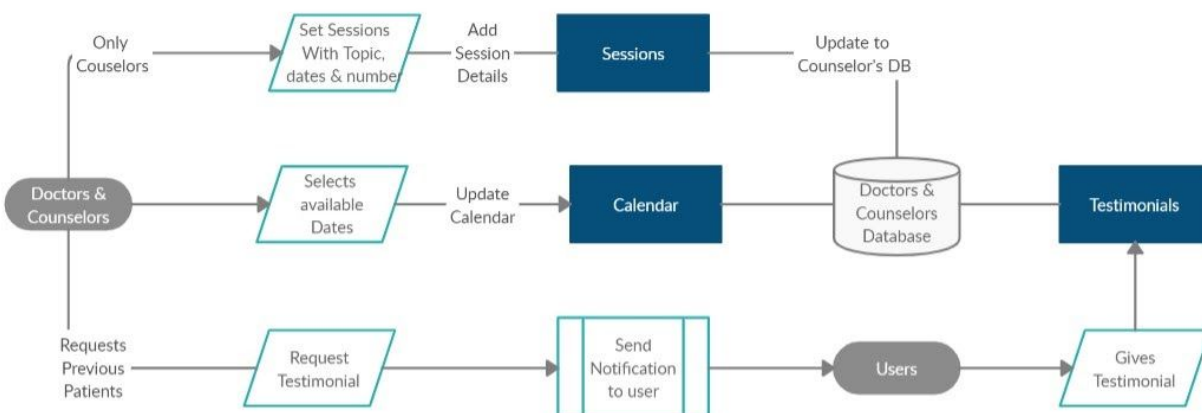
Module VII:

Setting available dates by doctor/counselor:

- Doctor/Counselor can specify the available free time and number of days.
- Based on the inputs 1 hr slot is allocated for appointments.
- Counselors can also set dates for sessions with topic name, number of participants and number of days.

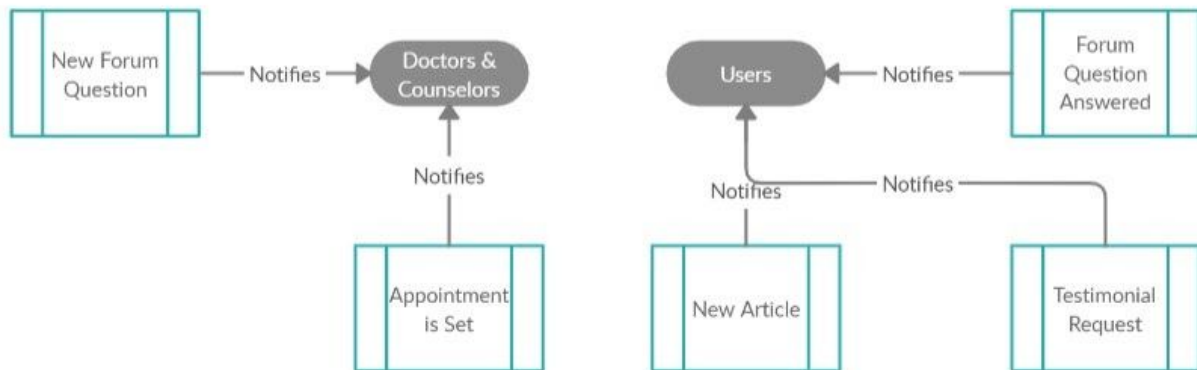
Testimonials:

- Doctors/Counselors can request users for testimonials.
- A notification is sent to the previous appointment users to give testimonials.
- Userc can give testimonials on his/her wish.



Notifications:

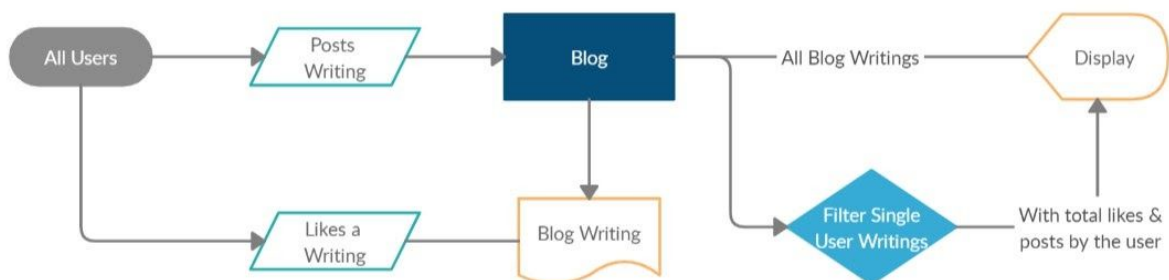
- Doctors/Counselors get notified on new appointments.
- Doctors/Counselors get notified on new question
- User gets notified on answering the question posted by the user.



Module VIII:

Personal Blog:

- All users can share personal experiences through blogs.
- Users can post their writing in the blog
- All users can view the blog writing.
- Users can also filter the writing of a particular user
- Users can check the number of writing he contributed and total likes he/she received.
- Users can like the writings



Data Schema:

Database Platform used: Mongo Atlas - cloud database format of MongoDB which is a nosql database.

- As we are using an online database, both our app and website are in sync all the time.
- There will be no normalization issues in our database as we are going with NoSql structure

The following schema species clearly with the attributes and its data types.

