

Functional Requirements for CSE471 project

Project Name : HeathCare & PetKingdom (modify)

1. User Registration

- a. While going to the site the users will be asked to log in using email and password. There will be an additional button for new-comers to sign up to the website; after successful signup users will be redirected to the login page. With correct password users would be able to log in.

2. Authentication & Password Recovery:

- a. An authentication process will be in place to identify the users with their correct and accurate email address and password.
- b. If a user can't login using their password (after 2 tries) there will be a text displayed asking the user to "Your login credentials are not correct"

3. Profile Management:

- a. Users should be able to update their profile information and manage their account settings. In settings user will be able to add and delete information regarding their profile.
- b. Users should be able to register a patient (human or pet) with relevant health and personal information.
- c. Users should be able to add, view, update, and delete health records for each registered patient.
- d. Privacy settings will allow users to control the visibility of their profiles and data-sharing preferences. The system will support the registration of multiple patients (human or pet), with detailed profiles that include medical history,

allergies, medications, and vaccination records if applicable. Users will also have the capability to add, view, update, and delete patient profiles as needed.

4. Appointments

- a. The platform will facilitate appointment scheduling, allowing users to book appointments with healthcare professionals, such as doctors or veterinarians, selecting their preferred date, time, and provider. Users will be able to view, reschedule, or cancel appointments easily. Automated systems will send appointment confirmation emails or texts and provide calendar reminders to ensure users do not miss their appointments.

5. Info Feed:

- a. The platform will curate relevant healthcare news, healthy lifestyle tips, and healthy recipe articles from reliable sources. Personalization features will tailor the news feed based on user preferences and health interests. The feed will be regularly updated with fresh and informative content to keep users engaged and informed.

6. Ratings & Review:

A review system will enable users to rate and review healthcare professionals based on criteria such as expertise, communication, and punctuality. Reviews will be moderated to ensure authenticity and prevent inappropriate content, maintaining the integrity and usefulness of the feedback system.

7. Doctor Consultation

The platform will offer virtual consultation options via video chat or text-based communication. Healthcare professionals will be able to create and manage electronic

prescriptions within the system. Integration with pharmacy systems will facilitate online prescription refills and medication deliveries, streamlining the process for both patients and healthcare providers.

8. Pharmacy suggestion

- a. Nearby pharmacies will be suggested for quick medicine grab

9. Visitor count:

- a. How many people visits a day week and year data with graph
- b. Healthcare professionals will have access to a dashboard displaying visitor data, including daily, weekly, and monthly trends, with visualizations such as graphs to help them understand patient trends better.

10. Vaccine records:

- a. Will ask users what vaccines they have taken before
- b. Will show it to the doctor when doctor visits the page

11. User review

- a. Will be able to review with stars and comment

12. Feed section with healthcare news/information

- a. There will be a section dedicated to healthcare news. Like healthy lifestyle suggestions and healthy food recipes . health achievements in science and related news

13. Health library:

- a. diseases checker : will be able to assume disease by symptoms
- b. symptoms : some common disease with symptoms
- c. test and procedures : if you are seeing symptoms of some disease you will see how to do test and next step
- d. healthy lifestyle book: some recommended books and magazines for healthy lifestyle. Online book links and store link
- e. A symptom-based disease checker will help users identify potential diseases based on their symptoms, though it will include a disclaimer stating it is for informational purposes only and not a substitute for professional diagnosis. The platform will maintain a comprehensive database of common diseases with associated symptoms and provide information on common medical tests and procedures, including their purpose and preparation steps. Additionally, it will offer curated resources promoting healthy living habits, such as books, magazines, and online links.

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14. Donation (blood , organ):

- a. People can join the blood and organ donation program and request for one.
- b. Users will have the option to register for blood and organ donation programs. The platform will also facilitate requests for blood or organ donations, helping to connect donors and recipients through the system.

15. Emergency Services:

- a. Contact ambulance service
- b. Contact deadbody freezer
- c.
- d. Other emergency contacts

16. Online store for pet toys:

- a. Users can purchase a variety of toys for their pets.
- b. The pet store will present a wide variety of pet toys categorized by pet type and preferences. Users will be able to search and filter products easily and complete their purchases through a secure payment gateway integrated into the platform.

17. Lost and Found Pets:

- a.Enable users to report lost or found pets.
- b.Facilitate reunions

18. Health Education Resources:

- a.Provide articles, videos, and infographics on health topics.
- b.Promote preventive care and healthy lifestyle choices.

19. Pet Adoption Listings:

- a.Display adoptable pets with descriptions and photos.
- b.Connect potential adopters with shelters or rescues.

20. Healthcare Community Forums:

a.Create forums for patients to share experiences and advice.

b.Include subforums for specific conditions.

