### MYDOC

### A website that can help you to self-diagnose and help to maintain

### your medical records.

**TEAM: 4-THE DUO**

CSET205 Project Report - 01

Submitted to the Faculty

of the Bennett

University

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2022-23, Even Semester

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# INTRODUCTION

**Problem Statement:**

In today's fast-paced world, managing personal health records and accessing reliable health care information can be a cumbersome process. Patients often face challenges in organizing and updating their medical history, while doctors and health care institutions struggle with efficient record-keeping . This fragmentation can result in delayed diagnoses, potential misinformation, and sub optimal patient care.

Challenges:

1. Fragmented Health Records:

- Patients struggle to maintain a centralized and updated record of their medical history.

- Health care providers face challenges in accessing comprehensive patient data due to disparate systems.

1. Limited Access to Health care Information:

- Patients often lack reliable sources for self-diagnosis and health information.

- The absence of a centralized platform for health information limits patients' ability to make informed decisions about their well-being.

**Solution:**

Introducing MyDoc - A Revolutionary Healthcare Platform

MyDoc is a comprehensive web application designed to bridge the gaps in healthcare management for both patients and healthcare providers. It features two interfaces: one for patients and another for doctors, creating a seamless and secure ecosystem for healthcare information.

For Patient :

1. Unified Health Record Management:

- Patients can effortlessly store and manage their medical history on the platform, ensuring a consolidated and up-to-date health record.

1. Symptom-based Self-Diagnosis:

- By entering symptoms, patients receive instant access to a list of potential diseases, along with necessary precautions.

- The platform empowers users with reliable health information, fostering proactive healthcare management.

3. Doctor Recommendations:

- Patients receive a curated list of nearby doctors specializing in identified diseases, streamlining the process of seeking medical advice.

For Doctor :

4. Hospital Staff and Doctor Management:

- Hospitals can efficiently manage their staff and doctors' details, ensuring accurate and up-to-date records within the system.

5. Centralized Patient Records:

- Doctors gain access to a centralized database of patient records, enhancing their ability to provide personalized and informed care.

6. Treatment and Disease Management:

- Hospitals can store comprehensive details about patients' diseases, treatment plans, and contact information, facilitating effective patient care.

**Key Features:**

- Secure and Compliant:

- MyDoc ensures the highest standards of security and compliance with healthcare data protection regulations.

- User-friendly Interface:

- The platform is designed with an intuitive and user-friendly interface for a seamless user experience.

- Empowered Patients:

- Patients take control of their health with organized records, self-diagnosis tools, and easy access to healthcare resources.

In conclusion, MyDoc aims to revolutionize healthcare management by providing a unified and secure platform, fostering collaboration between patients and healthcare providers for a healthier future.

# SYSTEM ANALYSIS AND DESIGN

## User Stories (Requirements)

|  |  |
| --- | --- |
| **ID** | **User Story** |
| 1 | **As a user, I want to create a secure account on MyDoc, providing my personal information and ensuring the confidentiality of my medical history.** |
| 2 | **As a user, I want to input and update my medical history on the platform, including previous illnesses, medications, and surgeries.** |
| 3 | **As a user, I want to describe my symptoms in a user-friendly interface, prompting the system to suggest possible diseases based on the input.** |
| 4 | **As a user, I want the system to provide detailed information about potential diseases, including symptoms, precautions, and general advice.** |
| 5 | **As a user, I want to receive a list of nearby doctors specializing in the potential diseases identified by the self-diagnosis tool.** |
| 6 | **As a user, I want to have a summary dashboard of my medical history,, and recommended precautions.** |
| 7 | As a user I want a access to a library of health tips and articles related to their medical history and identified diseases. |
| 8 | As a user i should be able to input and track the medical history of family members for a more comprehensive health overview. |
| 9 | **As a user, I want the option to securely share my medical history and diagnostic results with other healthcare providers, if needed.** |
| 10 | **As a doctor, I want to create and manage my profile on MyDoc, including my specialties, availability, and contact information** |
| 11 | As a doctor I want to create and manage a database that can store the details of all the doctors and staff working in hospital. |
| 12 | **As a doctor, I want to access a centralized database where I can view and update the medical records of my patients securely.** |
| 13 | **As a doctor, I want to input details about my patients' diagnoses, prescribed medications, and treatments, ensuring accurate and up-to-date records.** |
| 14 | As a patient, I want the option to provide feedback and ratings for doctors I have consulted with through the "MyDoc" platform to help others make informed decisions. |
| 15 | As a registered user of the platform, I want the ability to change my password and update personal details, so that I can maintain the security of my account and ensure that my information is accurate and up-to-date. |

**User Stories with Acceptance Criteria**

|  |  |
| --- | --- |
| **ID** | **Description** |
| 1 | ***USER REGISTRATION:*** |
| **Acceptance Criteria** | |
|  | Users should be able to register with a valid email and password. |
|  | Registration should be confirmed through email verification. |
| 2 | ***MEDICAL HISTORY MANAGEMENT*** |
| **Acceptance Criteria** | |
|  | Users can input and update their medical history, including previous illnesses, surgeries, and medications |
|  | The system should validate and save the entered medical history securely. |
| 3 | ***SYMPTOM-BASED SELF-DIAGNOSIS:*** |
| **Acceptance Criteria** | |
|  | Users should be able to enter symptoms through an intuitive interface. |
|  | The system should provide a list of potential diseases based on the symptoms entered. |
| 4 | ***DISEASE INFORMATION:*** |
| **Acceptance Criteria** | |
|  | For each potential disease, the system should display detailed information including symptoms, precautions, and general advice. |
|  | Information provided should be accurate and from reliable sources. |
| 5 | ***DOCTOR RECOMMENDATIONS:*** |
| **Acceptance Criteria** | |
|  | Based on the self-diagnosis, users should receive a list of nearby doctors specializing in the identified diseases. |
|  | The list should include doctor profiles and available time slots. |
| 6 | ***USER DASHBOARD:*** |
| **Acceptance Criteria** | |
|  | Users should have a dashboard displaying a summary of their medical history, upcoming appointments, and recommended precautions. |
|  | The dashboard should be visually intuitive and easy to navigate. |
| 7 | ***SECURE MEDICAL DATA SHARING:*** |
| **Acceptance Criteria** | |
|  | Users should be able to securely share their medical history and diagnostic results with other healthcare providers. |
|  | Access should be granted only with user consent. |
| 8 | ***FAMILY MEDICAL HISTORY TRACKING:*** |
| **Acceptance Criteria** | |
|  | Users should be able to input and track the medical history of family members for a more comprehensive health overview. |
|  | The system should provide insights into potential hereditary health risks. |
| 9 | ***PATIENT FEEDBACK AND RATINGS*** |
| **Acceptance Criteria** | |
|  | After a consultation, patients can rate and provide comments about the doctor's service.  Ratings should be on a scale or provide a star rating. |
|  | Comments should be limited in length and follow community guidelines.  Patients can view aggregated ratings and comments for each doctor in the directory. |
| 10 | ***DOCTOR PROFILE MANAGEMENT:*** |
| **Acceptance Criteria** | |
|  | Doctors should be able to create and manage their profiles, including specialties and availability. |
|  | Changes to profiles should be reflected instantly |
| 11 | ***STAFF AND DOCTOR DETAILS:*** |
| **Acceptance Criteria** | |
|  | Hospitals should be able to input and update details of their staff and doctors. |
|  | The system should validate and save the entered information securely. |
| 12 | ***PATIENT RECORDS:*** |
| **Acceptance Criteria** | |
|  | Doctors should have access to a centralized database to view and update the medical records of their patients. |
|  | Access to patient records should be restricted to authorized doctors. |
| 13 | ***DIAGNOSIS AND TREATMENT ENTRY:*** |
| **Acceptance Criteria** | |
|  | Doctors should be able to input details about patient diagnoses, prescribed medications, and treatments. |
|  | The system should ensure accuracy and security of the entered data. |
| 14 | ***HEALTH TIPS AND ARTICLES:*** |
| **Acceptance Criteria** | |
|  | Users can access a library of health tips and articles . |
|  | The system provides personalized recommendations based on the user's health profile |
| 15 | ***CHANGE PASSWORD AND UPDATE PERSONAL DETAILS*** |
| **Acceptance Criteria** | |
|  | The user can navigates to the account settings section and find an option to change their password. |
|  | The user can easily change its personal details like email,contact no,and also its medical history. |

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