

# Knayam

## Software Requirements Specifications

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# 1. Introduction

- Purpose:-

The purpose of building a knayam website for ayurvedic appointment booking and medicine purchasing is to provide a convenient and accessible platform for individuals seeking ayurvedic treatments and remedies. Here are some key purposes for such a website:

1. **Convenience and Accessibility:** The website aims to make it easier for people to access ayurvedic healthcare services from the comfort of their own homes. It eliminates the need for physical visits to clinics or stores, allowing individuals to book appointments and purchase medicines online at their convenience.

2. **Appointment Booking:** The website facilitates the booking of appointments with qualified ayurvedic practitioners. Users can browse through the profiles of various practitioners, check their availability, and schedule appointments based on their specific needs. This saves time and effort compared to traditional methods of appointment booking.

3. **Medicine Purchasing:** The website provides a platform for individuals to purchase ayurvedic medicines and herbs online. Users can browse through a wide range of products, read descriptions and reviews, and make purchases securely. This enables easy access to authentic ayurvedic medicines without the need to physically visit multiple stores.

4. **Information and Education:** The website serves as a valuable resource for information and education about ayurvedic treatments and remedies. It also features articles, blog posts, and educational content about various aspects of ayurveda, such as different treatment modalities, herbs, lifestyle practices, and preventive care. This helps users make informed decisions about their health and well-being.

6. **Integration with Traditional Practitioners:** The website can collaborate with traditional ayurvedic practitioners, clinics, and pharmacies to bring their services online. This enables practitioners to expand their reach and offer their expertise to a wider audience, while also providing users with a reliable platform to connect with trusted professionals.

Overall, the goal of creating a website for ayurvedic appointment booking and medicine purchasing is to take advantage of technology to make ayurvedic healthcare services more accessible, convenient, and informative for people looking for alternative and holistic treatments.

- Intended audience:-

The intended audience for knayam website for ayurvedic appointment booking and medicine purchasing would typically be individuals who are interested in Ayurvedic medicine, holistic health, and natural remedies. This will also include people who prefer ayurvedic medicine more than the allopathic or any other modern day medicine.

The other target groups include:-

**Herbal Medicine Seekers:** People who specifically seek herbal remedies and natural products for various health concerns. They may be interested in purchasing Ayurvedic herbs, herbal supplements, oils, and other related products.

**Wellness Professionals:** Ayurvedic practitioners, holistic health coaches, yoga instructors, and other wellness professionals who may be interested in accessing Ayurvedic resources, products, or booking consultations for their clients.

- Product Scope:-

Product Scope for Knayam a website for ayurvedic appointment booking and medicine or herbs purchasing:

The Knayam is intended to be a user-friendly platform that provides a platform for users to consult ayurvedic professionals for their health condition and purchase ayurvedic medicines or herbs. The website will have the following features:-

1. Appointment Booking System:
  - a. A user-friendly interface that allows users to book appointments with Ayurvedic practitioners.
  - b. Availability calendar displaying the practitioners' schedule and appointment slots.
  - c. User registration and profile management for easy appointment management.
2. Practitioner Profiles:
  - a. Detailed profiles of Ayurvedic practitioners, including their qualifications, areas of expertise, and experience.
  - b. Information about the practitioners' treatment methodologies and approach to Ayurvedic medicine.
  - c. Patient reviews and ratings to help users make informed decisions.
3. Ayurvedic Medicine and Herbs Store:
  - a. An online store offering a wide range of Ayurvedic medicines, herbal supplements, oils, and other related products.
  - b. Detailed product descriptions, including ingredients, usage instructions, and potential benefits.
  - c. Information on the compatibility of certain products with specific health conditions or Ayurvedic body types (doshas).
4. Treatment Services:
  - a. Clear descriptions of the various treatment services offered, such as Ayurvedic consultations, therapies, and personalized treatment plans.
  - b. Therapies for various physiological and psychological conditions.
  - c. Video Consultation with the practitioner for better understanding of the patient's health problem.
  - d. Details regarding the duration, benefits, and costs of each treatment option.
5. Educational Resources:
  - a. Articles and blog posts providing information about Ayurvedic principles, lifestyle practices, and wellness tips.
  - b. Information on common health conditions and recommended Ayurvedic remedies.
  - c. Guides on understanding Ayurvedic body types (doshas) and how to maintain balance.
6. User Accounts and Preferences:
  - a. User registration and login functionality to manage appointments, order history, and preferences.

- b. Edit profile option if the user wants to make some changes in their preferences and user details.
  - c. A digilocker for storing the medical record or documentation related to the patients health problems and conditions.
  - d. Option to save favorite practitioners, reorder previously purchased products, and set preferences for notifications.
- 7. Privacy and Security:
  - a. Secure handling of personal and financial information.
  - b. Compliance with data protection regulations to ensure user privacy and confidentiality.
- 8. Other Features:
  - a. Sports fitness consultation, therapies and rehabilitation suggestion for any injuries.
  - b. Mobile Clinic
  - c. The website also provides facilities for medical tourism.
  - d. A responsive design that allows users to access the website and make appointments or purchases from their mobile devices.

- Tech Stack:-

Frontend - UI based development

Backend - URL based development

Database - PostgreSQL

## 2. Overall Description

- Operating Environment:-

System	Requirements	
Server Side	Operating System	Linux
	DBMS	MySQL
	Web Server	Apache
Client Side	Operating System	Windows, Linux, Android
	Web Browser	Chrome, Firefox

- Design and Implementation Constraints:-

- Compatibility Constraints:

- The website application should be compatible with specific web browsers (e.g., Chrome, Firefox, Safari) and their versions.
- The application must support different operating systems (e.g., Windows, macOS, Linux) and their versions.
- The website should be responsive and adapt to various screen sizes, including desktops, laptops, tablets, and mobile devices.

- Performance Constraints:
  - The website application should have fast response times and load quickly to provide a smooth user experience.
  - The system should be able to handle a specific number of concurrent users without significant performance degradation.
  - The website should have efficient data retrieval and processing mechanisms to minimize latency.
- Security Constraints:
  - The application should implement appropriate security measures to protect user data from unauthorized access or breaches.
  - User authentication and authorization mechanisms should be implemented to ensure secure access to sensitive information.
  - The system must comply with industry-specific security standards (e.g., HIPAA, GDPR) or any other relevant regulations.
- Scalability Constraints:
  - The website application should be scalable to handle increasing user loads and growing data volumes.
- Technical Constraints:
  - The website application should be developed using specific programming languages (e.g., HTML5, CSS3, JavaScript etc.).
  - Constraints may be imposed on the use of frameworks, libraries, or CMS platforms.
- Compliance Constraints:
  - The system must comply with legal and regulatory requirements specific to the industry or region of operation.
  - Any applicable privacy regulations (e.g., GDPR) or data protection laws must be considered and addressed.
- Resource Constraints:
  - Constraints related to budget, time, and available human resources should be documented.
  - Limitations on hosting infrastructure, storage, or bandwidth may also be specified.
- User Experience (UX) Constraints:
  - The website application must adhere to WCAG 2.1 accessibility guidelines to ensure accessibility for users with disabilities.
  - The application should provide clear and intuitive navigation, with consistent design elements and a user-friendly interface.



- The website should load within three seconds to provide a satisfactory user experience.
- Third-Party Dependencies:
  - Constraints may arise if the website application relies on third-party services, APIs, or libraries that have their own limitations or restrictions.
- Assumptions and Dependencies:-
  - Assumptions-
    - User Access: It is assumed that users will have access to a compatible web browser and internet connectivity to access the website.
    - Technical Competence: It is assumed that users have basic computer skills and familiarity with web browsing.
    - Device Compatibility: It is assumed that users will access the website from devices that meet the minimum hardware and software requirements.
    - Content Accuracy: It is assumed that the services and product provided on the website is accurate, up to date, and reviewed periodically for quality assurance.
    - User Security: It is assumed that users will take necessary precautions, such as protecting their login credentials and ensuring the security of their devices while accessing the website.
  - Dependencies-
    - Hosting Service: The website depends on a reliable hosting service to store and serve its web pages and associated files.
    - Domain Name Registration: The website relies on a registered domain name to establish its unique web address.
    - Content Management System (CMS): If the website utilizes a CMS, it depends on the availability and proper functioning of the CMS platform and its associated plugins or extensions.

- Third-Party APIs or Services: If the website integrates with external APIs or services, it depends on the availability and proper functioning of those APIs or services.
- Payment Gateway: If the website involves online transactions, it depends on the integration and proper functioning of a payment gateway for secure payment processing.
- SSL Certificate: If the website collects sensitive user information or involves secure transactions, it depends on the presence of a valid SSL certificate to establish secure connections.

### 3. External Interface Requirement

- User Interfaces:-

The system is designed in such a way that it will be user friendly in each form of interface.

If the user is patient,

- Edit/update profile details.
- Change the password for login to the website
- Navigate through all the ayurvedic practitioners.
- Search for a desired doctor or ayurvedic vaidya.
- Book an appointment according to their wish and when the doctor is available.
- Consult the doctor through video call.
- Take a look at the medicines and herbs available for buying.

If the user is doctor/vaidya,

- Edit/update profile details.
- Change the password for login to the website.
- Mention their area of expertise, Qualification and experience in that field.
- Mention the available timings.

- Software Interfaces:-

- Operating system – Any android system or windows browser for better performance and user friendliness.
- The records for patients and Doctors will be stored in the database.
- Also, we are using UI based development in the frontend part to implement this project.

## 4. System Features

1. Patients booking appointments with desired ayurvedic practitioner or doctor.
2. Patients getting video consultation and therapies online.
3. Website performing as mobile clinic.
4. Various types of ayurvedic medicines and herbs are available for users to buy.
5. The website shows the available ayurvedic doctors in the locality and what are their expertise and qualifications so that patients can choose accordingly. Also users can sign in as practitioner if they have required qualifications and provide their services.
6. Numerous articles and blogs posts are available providing information about Ayurvedic principles, lifestyle practices, and wellness tips.
7. Sports fitness consultation is also available.
8. Digilocker for storing patient's documents related to their health status and other medical reports.
9. Users can edit their profile as per their norms.

## 5. Other Non Functional Requirements

- Performance Requirements:-

- *The Knayam website is more interactive and the delays are most probably lesser.*
- *The system must be compatible to hold the general traffic*
- *And it shouldn't get hang and should not show that problems are arising out due to large number of concurrent users.*
- *And most importantly the system should be fast enough to meet the user.*
- *The high and low temperature should not affect the performance of the device.*

- Safety Requirements:-

- *The information of all Ayurvedic practitioner must be stored in the database, which should be accessible to the users.*
- *All registered practitioner should have few of the details like their qualifications, area of expertise and experience etc. These details should be visible to the patients so they can make decision accordingly.*

- Security Requirements:-

- *All details and information of the patient are maintained confidential.*

- Software Quality Attributes:-

- *AVAILABILITY: The Knayam website is open for patient looking for an ayurvedic treatment, Ayurvedic practitioner or a general user looking for some herbs.*
- *OPERABILITY: website allows the user to operate with a touch prompt unless input is given through other means. This is allowing the user to insert data easily.*
- *FLEXIBILITY: After delivering website if a client wants to do any changing will hope to do that change immediately without any charges.*