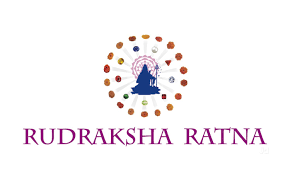
**FUNCTIONAL REQUIREMENT**

**of**

**Spiritual Products**

**For**

** Rudraksha-Ratna**

Rounak Pathak

16/01/2025

Version 1.0

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* 1. Frontend Development
  2. Backend Development
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  4. Payment Gateway Integration
  5. Mobile App Development (if applicable)
  6. Other Tools and Technologies

1. Document Control

1.1 Version History

This document will evolve as the project progresses. Below are the details of updates made to this document:

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Department of change | Author | Date |
| 1.0 | Initial Version of the Function Required Document (FRD) | Rounak Pathak | 16/01/2025 |

### **1.2 Document Review and Approval**

This document will be reviewed by key stakeholders before final approval to ensure that all requirements are correctly captured.

### **2. Introduction**

#### **2.1 Purpose**

This document outlines the functional and technical requirements for the spiritual product "Rudraksha Ratan," ensuring clarity for development, production, and marketing teams. Rudraksha Ratan combines the spiritual essence of Rudraksha beads with gemstones (ratans) to create a holistic spiritual experience.

#### **2.2 Scope**

The document provides specifications for product design, astrological compatibility, user benefits, durability, packaging, and optional digital features to guide the creation of Rudraksha Ratan.

#### **2.3 Overview of the System**

Rudraksha Ratan integrates high-quality Rudraksha beads with authentic gemstones to deliver both spiritual and astrological benefits to the user. The product includes customizable features, eco-friendly packaging, and optional digital integration.

### **3. Business Requirements**

#### **3.1 Objective**

To create a premium spiritual accessory that blends traditional astrological remedies with modern craftsmanship, providing holistic well-being to users.

#### **3.2 Stakeholders**

* **Primary Users:** Spiritual practitioners, individuals seeking planetary balance.
* **Internal Teams:** Product development, marketing, and quality assurance.
* **Partners:** Suppliers of Rudraksha beads and gemstones, astrologers.

#### **3.3 Business Processes**

* Sourcing ethically produced Rudraksha beads and gemstones.
* Customizing products based on user needs.
* Ensuring compliance with quality standards.

### **4. Functional Requirements**

#### **4.1 User Roles and Permissions**

* **Administrator:** Manage inventory, oversee orders, and update product details.
* **Customer:** Browse catalog, place orders, and track shipments.
* **Astrologer:** Provide consultation for product recommendations.

#### **4.2 Core Features and Functions**

##### **4.2.1 Product Catalog Management**

* Display detailed information about Rudraksha beads and gemstones.
* Provide filters for material, mukhi, and gemstone type.

##### **4.2.2 Shopping Cart and Checkout**

* Add/remove products.
* Display subtotal, taxes, and total price.
* Support multiple payment methods.

##### **4.2.3 Product Search and Filtering**

* Search products by keyword.
* Filter products based on category, price range, and astrological relevance.

##### **4.2.4 Customer Account Management**

* User registration and login.
* Order history and tracking.
* Wishlist management.

##### **4.2.5 Payment Gateway Integration**

* Secure payment processing.
* Support for credit/debit cards, UPI, and wallets.

##### **4.2.6 Order Management**

* Order placement and confirmation.
* Real-time status updates for orders.

##### **4.2.7 Inventory Management**

* Real-time stock updates.
* Alerts for low inventory levels.

##### **4.2.8 Promotions and Discounts**

* Offer promotional discounts.
* Apply coupon codes during checkout.

#### **4.3 User Interfaces**

##### **4.3.1 Homepage**

* Highlights featured products and promotions.

##### **4.3.2 Product Detail Page**

* Detailed descriptions, images, and customer reviews.

##### **4.3.3 Shopping Cart Page**

* List of selected products with an option to update quantities.

##### **4.3.4 Checkout Page**

* Seamless flow for entering shipping details and completing payment.

##### **4.3.5 Customer Dashboard**

* Overview of account information, past orders, and saved preferences.

### **5. Non-Functional Requirements**

#### **5.1 Performance**

* Ensure fast load times for all pages.
* Handle concurrent users efficiently.

#### **5.2 Security**

* Protect user data with encryption.
* Implement multi-factor authentication.

#### **5.3 Compatibility**

* Optimize for web and mobile platforms.

#### **5.4 Reliability**

* Maintain uptime of 99.9%.
* Ensure recovery mechanisms for system failures.

### **6. Assumptions and Constraints**

#### **6.1 Assumptions**

* Users have basic internet access.
* Ethical sourcing of materials will not delay production timelines.

#### **6.2 Constraints**

* Limited budget for initial production.
* Dependency on third-party astrologers for consultations.

### **7. System and User Interaction**

#### **7.1 Workflow Diagrams**

* Include diagrams showcasing the order flow and customization processes.

#### **7.2 Data Flow Diagrams**

* Represent the interactions between users, inventory, and payment systems.

### **8. Testing and Validation**

#### **8.1 Test Scenarios**

##### **8.1.1 Scenario 1: Product Catalog and Cart Functionality**

* Verify that users can browse, add, and remove items from the cart.

##### **8.1.2 Scenario 2: Checkout Process**

* Ensure smooth transition from cart to payment completion.

##### **8.1.3 Scenario 3: Payment Gateway Integration**

* Test different payment methods for successful transactions.

##### **8.1.4 Scenario 4: Order Management and Status Updates**

* Validate real-time status changes for orders.

#### **8.2 Acceptance Criteria**

* Functional features operate as specified.
* Meets performance, security, and reliability standards.

### **9. Deliverables**

#### **9.1 Documentation**

* Functional and technical specification documents.
* User manuals and care instructions.

#### **9.2 System Features**

* Fully developed and tested e-commerce platform.

#### **9.3 Timelines**

* Specify key milestones from development to delivery.

### **10. Suggested Programming Languages**

#### **Frontend Development**

* HTML5, CSS3, and JavaScript
* React.js or Angular for dynamic and responsive interfaces

#### **Backend Development**

* Node.js (JavaScript runtime)
* Python (using Django or Flask frameworks)
* Java (Spring Boot for robust application development)

#### **Database Management**

* MySQL or PostgreSQL for relational database solutions
* MongoDB for NoSQL database options

#### **Payment Gateway Integration**

* REST APIs for payment gateways using languages like Python or JavaScript

#### **Mobile App Development (if applicable)**

* Flutter (Dart) for cross-platform mobile apps
* Kotlin for Android apps
* Swift for iOS apps

#### **Other Tools and Technologies**

* Version Control: Git
* Deployment: Docker, Kubernetes, or AWS
* Analytics: Google Analytics, Mixpanel