COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

SOFTWARE REQUIREMENTS SPECIFICATION

for

WedNest

Submitted to

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Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 *Purpose*

This SRS defines the functional and nonfunctional requirements for the **Dynamic Wedding Planning Platform**. The platform is designed to simplify and streamline the wedding planning process by integrating vendor services, budget tracking, and real-time updates into one cohesive system.

1.2 *Document Convention*

- **REQ-[Number]**: Each requirement is uniquely identified.
- High, Medium, and Low priority levels are assigned to requirements.
- Placeholder terms or incomplete information is marked as **TBD** (To Be Determined).

1.3 *Intended Audience and Reading Suggestions*

This document is intended for:

- **Developers**: For implementation of system features and integrations.
- **Testers**: For verifying functional and nonfunctional requirements.
- **Vendors and Couples**: To understand the system's functionality.

1.4 *Product Scope*

The **Dynamic Wedding Planning Platform** provides an all-in-one solution for couples to plan their weddings. The platform integrates dynamic vendor bookings, guest list management, real-time budget tracking, and personalized wedding timelines. It supports vendors in showcasing services and couples in planning their weddings seamlessly.

1.5 *References*

- IEEE Software Requirements Specification Template
- Payment API Documentation (Stripe, PayPal)
- Google Maps and Calendar API Documentation

2. *Overall Description*

2.1 *Product Perspective*

The platform is a standalone product integrating APIs for payments, calendar synchronization, and maps.

2.2 *User Classes and Characteristics*

Couples:

- Primary users.
- Require intuitive interfaces and features for planning.

Vendors:

- Service providers listing offerings.
- Require straightforward profile management and booking tools.

2.3 *Product Functions*

Key features include:

- Vendor Marketplace with search, filters and booking.
- Availability tracking for vendor services.
- Budget management with expense tracking and alerts.

2.4 *Operating Environment*

- **Platforms**: Web browsers (Chrome, Firefox, Safari, Edge).
- **Devices**: Desktop, tablets, and mobile phones.
- **OS Support**: Windows, macOS, Android, iOS.

2.5 *Design and Implementation Constraints*

- Use of industry-standard APIs for payments and location services.

2.6 *User Documentation*

- Video tutorials for couples and vendors.
- Detailed user manuals (PDF and online)

2.7 *Assumptions and Dependencies*

- Vendors maintain accurate availability and service details.
- Reliable APIs for payments, maps, and calendars.

3. *External Interface Requirements*

3.1 *User Interfaces*

- Vendor dashboard for profile and availability updates.
- Couple dashboard for planning tools, budget tracking, and vendor management.

3.2 *Hardware Interfaces*

No specific hardware requirements beyond standard internet-enabled devices.

3.3 *Software Interfaces*

- Payment APIs: Stripe, PayPal.
- Calendar APIs: Google Calendar, iCal.
- Maps API: Google Maps for venue locations.

3.4 *Communications Interfaces*

- HTTPS for secure communication.

4. *System Features*

Main system features provided by the WedNest are:

- **Vendor Marketplace :**Allows vendors to list services and couples to book them.
- **Availability and Bookings:** Tracks vendor availability dynamically.
- **Budget Tracking :**Tracks and adjusts wedding budgets **.**

Step	Couples (Users)	Vendors
1. Registration and Onboarding	- Sign up with details (name, email, wedding date, budget).	- Register with business details (name, category, location, pricing).
	- Set preferences (wedding style, theme, budget).	- Create a profile with photos, videos, testimonials, and services.
	- Access tools like budget tracker and vendor search.	- Set availability with an integrated calendar.
2. Service Search and Listing	- Browse vendors by category (venues, photographers, florists).	- List services with detailed profiles, photos, pricing, and reviews.
	- Filter results by budget, location, and reviews.	- Appear in search results when couples browse or filter by criteria.
	- View vendor profiles with availability and pricing.	- Display availability .
3. Booking Management	- Check vendor availability and book directly through the platform.	- Receive booking inquiries and accept or decline requests.

	- Receive instant booking confirmations and updates.	- Update availability dynamically after bookings to avoid double bookings.
4. Budget Management	- Set a wedding budget and allocate amounts for categories like catering and venue.	- View payment schedules for each booking.
	- Track expenses in real-time and receive alerts for budget overruns.	- Track earnings and manage invoices through their dashboard.
5. Post-Event Features	- Share wedding experiences through reviews.	- Receive recommendations and ratings to improve services.

5. Other Nonfunctional Requirements

5.1 *Performance Requirements*

- Support for 5,000 concurrent users.
- Response times under 3 seconds for searches and updates.

5.2 *Safety Requirements*

- Secure data storage and backups to prevent data loss.

5.3 *Security Requirements*

- Single-factor authentication for vendors and couples.

5.4 *Software Quality Attributes*

- **Usability**: Simple UI for non-technical users.
- **Availability**: 99.9% uptime guarantee.
- **Scalability**: Auto-scaling for high-traffic events

5.5 Business Rules

Vendor Rules:

- Vendors must accurately update their availability.
- Vendors must agree to the platform’s commission structure for every confirmed booking

Payment and Booking Rules:

- Vendors must provide full service details and pricing before bookings are finalized.
- All payments processed via the platform are subject to a 5% commission fee (or flat fee as applicable).
- Refund policies must adhere to platform-specific guidelines, ensuring clarity for both couples and vendors.

User Rules (Couples):

- Users must set their wedding date upon signup.
- Budget must be defined by users initially.

Data and Privacy Rules:

- User data cannot be shared with third-party vendors without explicit consent.
- The platform reserves the right to anonymize and aggregate data for analytics purposes but must comply with GDPR guidelines.