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SOFTWARE REQUIREMENTS SPECIFICATION (SRS) & TECHNOLOGY PROFILE TEMPLATE

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Confidentiality

[Internal/Confidential/Public]

VERSION HISTORY

Version	Date	Author	Changes Made
1.0.0	[DATE]	[NAME]	Initial draft creation
1.1.0	[DATE]	[NAME]	Requirements refinement
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2.1.0	[DATE]	[NAME]	Final review and approval

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1. EXECUTIVE SUMMARY

1.1 Project Overview

Project Name: [YOUR PROJECT NAME]

Business Domain: [Healthcare/Education/E-commerce/etc.]

Project Type: [Mobile App/Web Application/Both]

Target Audience: [End Users/Enterprises/B2B/B2C]

1.2 Business Objectives

- **Primary Goal:** [Main business objective]
- **Secondary Goals:**
 - [Goal 1]
 - [Goal 2]
 - [Goal 3]

1.3 Key Success Metrics

- **User Adoption:** Target [X] active users within [timeframe]
- **Business Impact:** [Specific measurable outcome]
- **Technical Performance:** [Response time, uptime, etc.]
- **ROI Expectations:** [Expected return on investment]

1.4 Project Scope

In Scope:

- Mobile application development (iOS/Android)
- Admin web panel
- User authentication and management
- [Specific features]

Out of Scope:

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- [Items explicitly not included]
- [Future enhancements to be considered separately]

1.5 Budget and Timeline Overview

- Estimated Budget Range: ₹[X] - ₹[Y]
- Development Timeline: [X] months
- Go-Live Target: [Date]

2. SYSTEM ARCHITECTURE OVERVIEW

2.1 High-Level Architecture

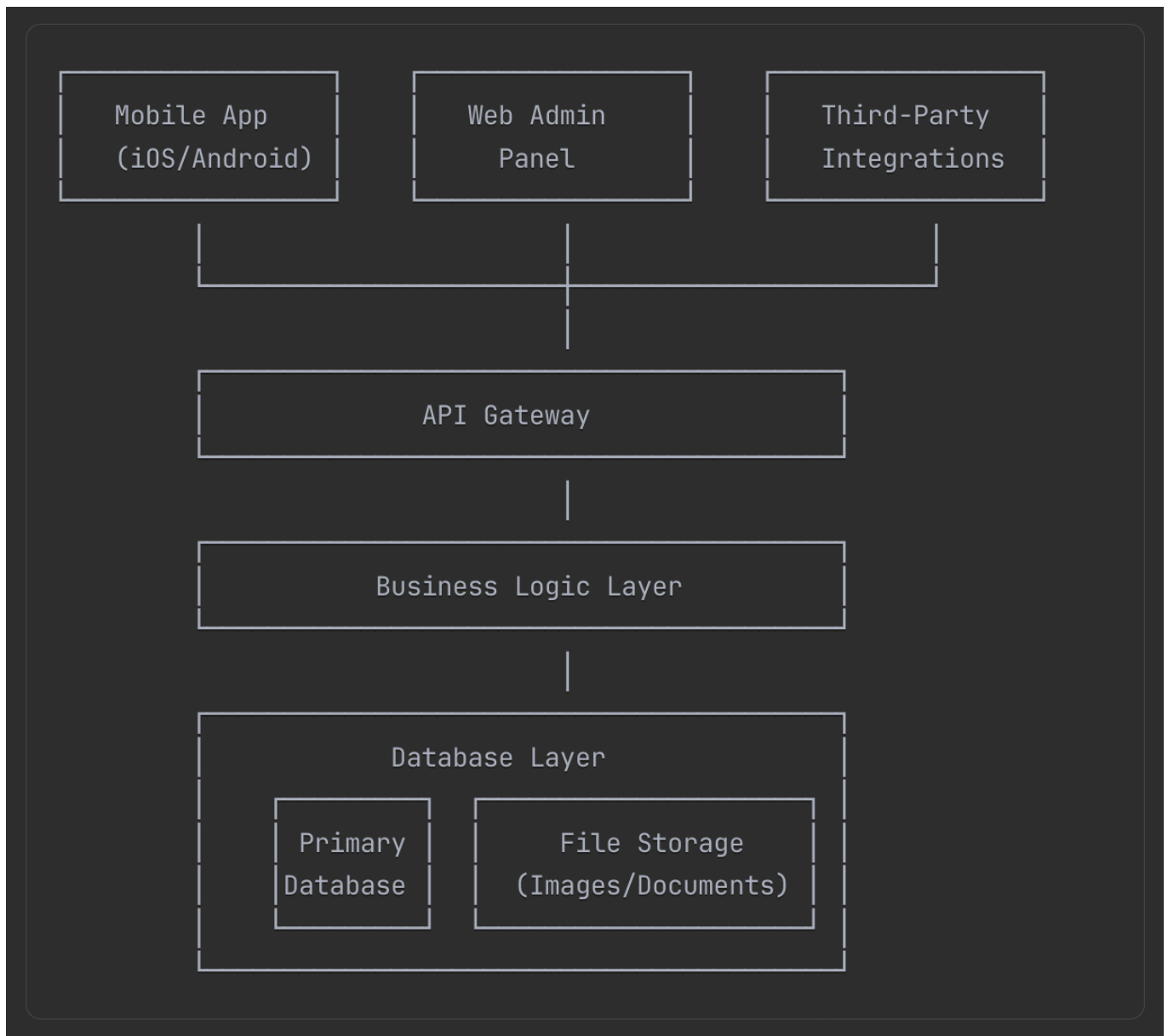
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2.2 Component Breakdown

- **Frontend Layer: Mobile apps and web interfaces**
- **API Gateway: RESTful APIs for data communication**
- **Business Logic: Core application functionality**

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- Database Layer: Data storage and management
- Integration Layer: Third-party service connections

2.3 Technology Stack Recommendation

Frontend: [React Native/Flutter/Native]
Backend: [Node.js/Python/Java]
Database: [MongoDB/PostgreSQL/MySQL]
Cloud Platform: [AWS/Google Cloud/Azure]
Authentication: [Firebase Auth/OAuth 2.0/JWT]

3. USER ANALYSIS AND REQUIREMENTS

3.1 User Personas

3.1.1 Primary User - End Customer

Profile:

- Age Group: [X-Y years]
- Technical Expertise: [Beginner/Intermediate/Advanced]
- Device Usage: [Smartphone/Tablet/Both]
- Primary Goals: [What they want to achieve]
- Pain Points: [Current challenges they face]

Usage Patterns:

- Frequency: [Daily/Weekly/Monthly usage]
- Session Duration: [Average time per session]
- Peak Hours: [When they're most active]

3.1.2 Secondary User - Admin/Manager

Profile:

- Role: [System Administrator/Business Manager]

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- **Technical Skills:** [Level of technical knowledge]
- **Responsibilities:** [What they need to manage]
- **Access Level:** [Full/Limited administrative access]

3.2 User Journey Mapping

3.2.1 New User Journey

1. **Discovery:** User learns about the app
2. **Registration:** Account creation process
3. **Onboarding:** First-time user experience
4. **First Use:** Completing primary task
5. **Regular Usage:** Ongoing engagement
6. **Advocacy:** Sharing with others

3.2.2 Returning User Journey

1. **Login:** Quick access to account
2. **Dashboard:** Overview of relevant information
3. **Task Completion:** Performing regular activities
4. **Settings Management:** Account/preference updates

3.3 Functional Requirements by User Type

3.3.1 End User Requirements

- **Account Management:**
 - **User registration and login**
 - **Profile management**
 - **Password reset functionality**
- **Core Features:**
 - **[Feature 1 with detailed description]**
 - **[Feature 2 with detailed description]**
 - **[Feature 3 with detailed description]**

3.3.2 Admin User Requirements

- **User Management:**

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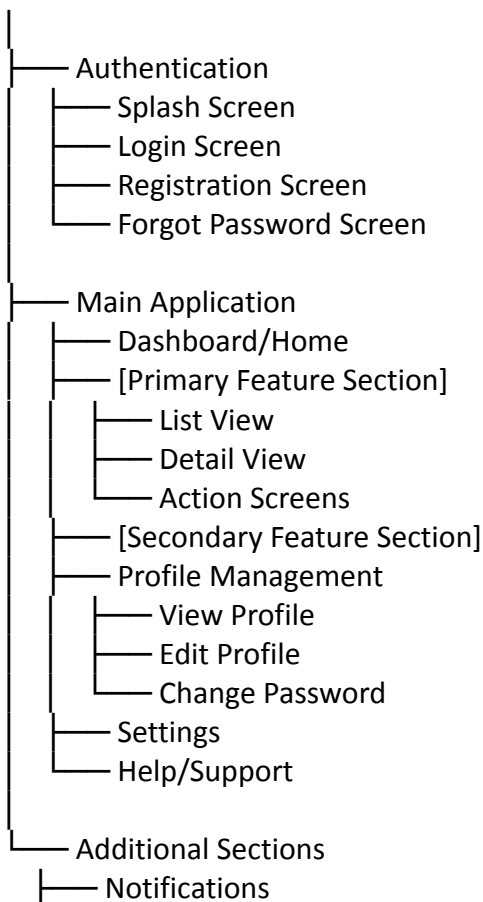
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- View all registered users
- Manage user accounts
- Generate user reports
- Content Management:
 - [Specific admin functions]
 - [Data management capabilities]
 - [System configuration options]

4. APPLICATION SITEMAPS AND SCREEN DETAILS

4.1 Mobile Application Sitemap

Mobile App Structure:



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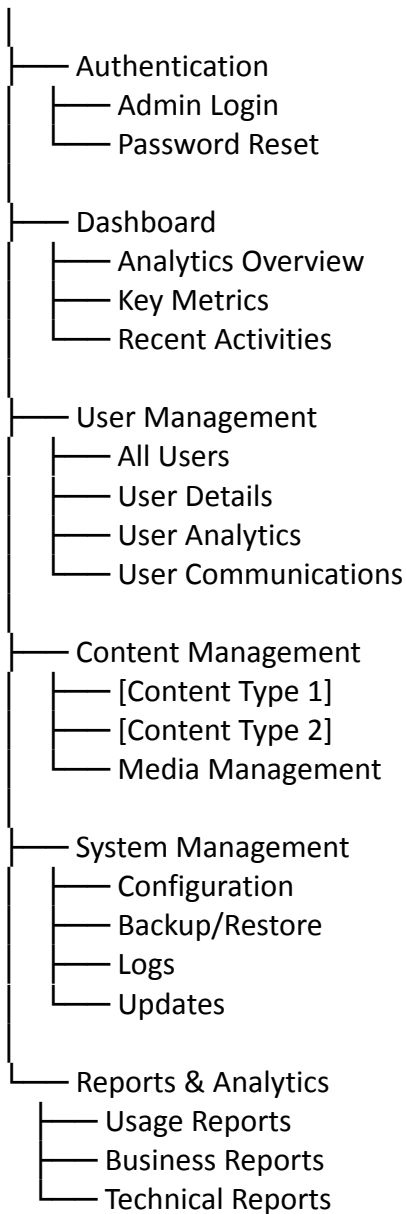


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- Search/Filter
- About/Terms

4.2 Web Admin Panel Sitemap

Admin Panel Structure:



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4.3 Screen Details and Specifications

4.3.1 Login Screen

Purpose: User authentication

Components:

- Email/Username input field
- Password input field
- "Remember Me" checkbox
- Login button
- "Forgot Password" link
- Social login options (if applicable)

Validations:

- Email format validation
- Password minimum requirements
- Rate limiting for failed attempts

4.3.2 Dashboard Screen

Purpose: Main application hub

Components:

- Welcome message with user name
- Quick action buttons
- Recent activities/updates
- Key metrics or statistics
- Navigation menu

Data Requirements:

- User profile information
- Recent user activities
- System notifications

[Continue this pattern for all major screens]

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5. USER FLOWS AND FEATURE WORKFLOWS

5.1 User Registration Flow

Start → Email Entry → Validation →

OTP Verification → Profile Setup →

Welcome Tutorial → Dashboard

Detailed Steps:

1. Email Entry:

- User enters email address
- System validates email format
- Check if email already exists

2. OTP Verification:

- Send verification code to email
- User enters 6-digit code
- Code expires in 10 minutes
- Option to resend after 1 minute

3. Profile Setup:

- Basic information collection
- Profile picture upload (optional)
- Terms and conditions acceptance

4. Welcome Tutorial:

- 3-5 screen walkthrough
- Key features introduction
- Skip option available

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5.2 Primary Feature Workflow Example

E-commerce Product Purchase Flow:

Browse Products → Product Details →

Add to Cart → Review Cart →

Apply Coupons → Select Payment →

Payment Processing → Order Confirmation →

Order Tracking

Step-by-Step Breakdown:

1. Browse Products:

- **Category-based browsing**
- **Search functionality**
- **Filter and sort options**
- **Pagination for large catalogs**

2. Product Details:

- **High-quality product images**
- **Detailed descriptions**
- **Customer reviews and ratings**
- **Related product suggestions**
- **Add to wishlist option**

3. Add to Cart:

- **Quantity selection**
- **Size/variant selection**
- **Real-time price updates**
- **Continue shopping option**

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[Continue for each step...]

5.3 Admin Workflow Examples

5.3.1 User Management Workflow

Admin Login → User Dashboard →

Select User → View Details →

Perform Action → Confirm Changes →

Update Records → Generate Report

5.3.2 Content Management Workflow

Content Dashboard → Create New →

Add Content Details → Preview →

Publish/Schedule → Monitor Performance

6. MOBILE APPLICATION REQUIREMENTS

6.1 Platform Requirements

iOS Requirements:

- Minimum iOS version: 12.0+
- Device compatibility: iPhone 6S and later
- iPad compatibility: iPad Air 2 and later
- Storage requirements: ~50MB initial install

Android Requirements:

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- **Minimum Android version: 6.0 (API level 23)**
- **RAM: Minimum 2GB recommended**
- **Storage: ~50MB initial install**
- **Architecture: ARM64, ARMv7**

6.2 Performance Requirements

- **App Launch Time: Under 3 seconds**
- **Screen Transition: Under 1 second**
- **API Response Time: Under 2 seconds**
- **Image Loading: Progressive loading with placeholders**
- **Offline Capability: Basic functionality without internet**

6.3 Security Requirements

- **Data Encryption: AES-256 encryption for sensitive data**
- **API Security: OAuth 2.0 or JWT token authentication**
- **Certificate Pinning: SSL certificate validation**
- **Biometric Authentication: Touch ID/Face ID support**
- **Session Management: Automatic logout after inactivity**

6.4 UI/UX Requirements

- **Design System: Material Design (Android) / Human Interface Guidelines (iOS)**
- **Accessibility: WCAG 2.1 AA compliance**
- **Responsive Design: Support for various screen sizes**
- **Dark Mode: System-based theme switching**
- **Internationalization: Multi-language support ready**

6.5 Device Integration Requirements

- **Camera: Photo capture and gallery access**
- **Location Services: GPS for location-based features**
- **Push Notifications: Real-time messaging capability**
- **File System: Document and media file management**
- **Contacts: Address book integration (if required)**

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7. ADMIN WEB PANEL REQUIREMENTS

7.1 Administrative Dashboards

7.1.1 Main Dashboard

Components:

- Key performance indicators (KPIs)
- Recent activities timeline
- System health monitoring
- Quick action buttons
- Alert notifications

Metrics to Display:

- Total active users
- Daily/monthly registrations
- Feature usage statistics
- System performance metrics
- Revenue/conversion data (if applicable)

7.1.2 User Management Dashboard

Features:

- User search and filtering
- Bulk user operations
- User activity tracking
- Communication tools
- Export capabilities

7.2 Content Management System

- CRUD Operations: Create, read, update, delete content

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- **Media Management:** Image and video upload/management
- **Content Scheduling:** Publish/unpublish scheduling
- **Version Control:** Content revision history
- **Approval Workflow:** Multi-level content approval

7.3 Analytics and Reporting

Standard Reports:

- **User engagement reports**
- **Feature usage analytics**
- **Performance monitoring**
- **Error tracking and debugging**
- **Custom report builder**

Data Export Options:

- **PDF reports**
- **Excel/CSV exports**
- **API endpoints for data access**
- **Automated report scheduling**

7.4 System Configuration

- **Application Settings:** Global app configurations
- **User Role Management:** Permission-based access control
- **Integration Settings:** Third-party service configurations
- **Backup/Restore:** Data backup and recovery options
- **System Maintenance:** Scheduled maintenance tools

8. API AND INTEGRATION REQUIREMENTS

8.1 RESTful API Specifications

8.1.1 Authentication Endpoints

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POST /api/auth/login

POST /api/auth/register

POST /api/auth/logout

POST /api/auth/refresh-token

POST /api/auth/forgot-password

POST /api/auth/reset-password

8.1.2 User Management Endpoints

GET /api/users/profile

PUT /api/users/profile

GET /api/users/{userId}

DELETE /api/users/{userId}

GET /api/users/{userId}/activities

8.1.3 Core Feature Endpoints

GET /api/[feature]/list

POST /api/[feature]/create

GET /api/[feature]/{id}

PUT /api/[feature]/{id}

DELETE /api/[feature]/{id}

8.2 Third-Party Integrations

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8.2.1 Payment Gateway Integration

Recommended Options:

- Razorpay: For Indian market
- Stripe: For international transactions
- PayPal: For global acceptance

Required Features:

- Credit/debit card processing
- UPI and wallet integration
- Subscription management
- Refund handling
- Transaction reporting

8.2.2 Communication Services

SMS Gateway:

- OTP verification
- Transactional messages
- Promotional campaigns

Email Services:

- Transactional emails
- Newsletter campaigns
- Password reset emails

Push Notifications:

- Firebase Cloud Messaging (FCM)
- Apple Push Notification Service (APNs)
- Rich media notifications

8.2.3 Cloud Storage Integration

Options:

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- **AWS S3: Scalable object storage**
- **Google Cloud Storage: Cost-effective solution**
- **Azure Blob Storage: Microsoft ecosystem**

Use Cases:

- **User profile images**
- **Document uploads**
- **Media file storage**
- **Backup storage**

8.3 API Security and Rate Limiting

- **Authentication: JWT token-based authentication**
- **Rate Limiting: 1000 requests per hour per user**
- **Input Validation: Comprehensive data validation**
- **SQL Injection Prevention: Parameterized queries**
- **CORS Configuration: Controlled cross-origin access**

9. TECHNICAL SPECIFICATIONS

9.1 Technology Stack Comparison

Component	Option 1	Option 2	Option 3	Recommended
Mobile Framework	React Native	Flutter	Native Development	React Native
Backend Framework	Node.js + Express	Python + Django	Java + Spring	Node.js + Express
Database	MongoDB	PostgreSQL	MySQL	MongoDB

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Cloud Platform	AWS	Google Cloud	Azure	AWS
Authentication	Firebase Auth	Auth0	Custom JWT	Firebase Auth

9.2 Database Design

9.2.1 Core Entities

Users Table:

```
users {  
  id: UUID (Primary Key)  
  email: VARCHAR(255) UNIQUE  
  password: VARCHAR(255) HASHED  
  first_name: VARCHAR(100)  
  last_name: VARCHAR(100)  
  phone: VARCHAR(15)  
  profile_image: VARCHAR(500)  
  status: ENUM('active', 'inactive', 'suspended')  
  created_at: TIMESTAMP  
  updated_at: TIMESTAMP  
}
```

Sessions Table:

```
sessions {
```

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```
id: UUID (Primary Key)
user_id: UUID (Foreign Key)
token: VARCHAR(500)
expires_at: TIMESTAMP
created_at: TIMESTAMP
}
```

9.2.2 Indexing Strategy

- **Primary keys:** Automatic indexing
- **Email field:** Unique index
- **Status fields:** Index for filtering
- **Timestamps:** Index for sorting
- **Foreign keys:** Index for joins

9.3 Server and Infrastructure Requirements

9.3.1 Development Environment

- **CPU:** 2 vCPUs
- **RAM:** 4GB
- **Storage:** 50GB SSD
- **Bandwidth:** 1TB/month

9.3.2 Production Environment (Initial)

- **Application Server:** 4 vCPUs, 8GB RAM
- **Database Server:** 2 vCPUs, 4GB RAM
- **File Storage:** 100GB with backup
- **CDN:** Global content delivery
- **Load Balancer:** High availability setup

9.3.3 Scaling Considerations

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- Auto-scaling: Based on CPU and memory usage
- Database Scaling: Read replicas for performance
- Caching: Redis for session and data caching
- Monitoring: CloudWatch/Prometheus setup

9.4 Security Implementation

- HTTPS Only: SSL/TLS encryption
- Data Encryption: AES-256 for sensitive data
- Password Security: bcrypt hashing with salt
- API Security: Rate limiting and input validation
- Regular Updates: Security patches and updates

10. QUALITY ASSURANCE AND TESTING

10.1 Testing Strategy

10.1.1 Testing Phases

1. Unit Testing: Individual component testing
2. Integration Testing: API and service integration
3. System Testing: End-to-end functionality
4. User Acceptance Testing: Client validation
5. Performance Testing: Load and stress testing
6. Security Testing: Vulnerability assessment

10.1.2 Testing Types

Functional Testing:

- Feature functionality validation
- User flow testing
- Cross-platform compatibility
- API endpoint testing

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Non-Functional Testing:

- Performance under load
- Security vulnerability scanning
- Usability testing
- Accessibility compliance

10.2 Test Coverage Requirements

- Unit Tests: Minimum 80% code coverage
- Integration Tests: All API endpoints
- UI Tests: Critical user journeys
- Performance Tests: Peak load scenarios

10.3 Testing Tools and Frameworks

Mobile Testing:

- iOS: XCTest, UI Testing
- Android: Espresso, UI Automator
- Cross-Platform: Appium for automation

Backend Testing:

- API Testing: Postman, Newman
- Load Testing: Apache JMeter, LoadRunner
- Security Testing: OWASP ZAP, Burp Suite

10.4 Bug Tracking and Resolution

- Severity Levels: Critical, High, Medium, Low
- Response Times: Critical (4 hours), High (1 day), Medium (3 days), Low (1 week)
- Testing Environment: Separate staging environment
- Regression Testing: After each bug fix

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11. PROJECT MANAGEMENT ELEMENTS

11.1 Project Timeline and Milestones

11.1.1 Phase-wise Breakdown

Phase 1: Planning and Design (3-4 weeks)

- Requirements finalization
- UI/UX design creation
- Technical architecture design
- Database schema design

Phase 2: Development (8-12 weeks)

- Backend API development
- Mobile app development
- Admin panel development
- Integration development

Phase 3: Testing and Deployment (2-3 weeks)

- Comprehensive testing
- Bug fixes and optimization
- App store submission
- Production deployment

11.1.2 Key Milestones

- Week 2: SRS approval and design kickoff
- Week 4: UI/UX design approval
- Week 8: Backend API completion
- Week 12: Mobile app alpha version
- Week 14: Beta testing completion
- Week 16: Production deployment

11.2 Resource Allocation

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Development Team:

- 1 Project Manager
- 1 UI/UX Designer
- 2 Mobile Developers (iOS + Android)
- 2 Backend Developers
- 1 QA Engineer
- 1 DevOps Engineer

11.3 Communication Plan

Regular Meetings:

- Daily standups (15 minutes)
- Weekly progress reviews (1 hour)
- Bi-weekly client demos (30 minutes)
- Monthly stakeholder updates

Reporting:

- Weekly status reports
- Monthly progress dashboards
- Issue escalation protocols
- Change request procedures

11.4 Risk Management

Technical Risks:

- Third-party integration delays
- Performance optimization challenges
- Platform-specific issues
- Security vulnerability discoveries

Mitigation Strategies:

- Regular code reviews

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- Prototype development
- Parallel development streams
- Contingency planning

12. TECHNOLOGY COMPARISON MATRIX

12.1 Mobile Development Framework Comparison

Criteria	React Native	Flutter	Native Development
Development Speed	Fast (Cross-platform)	Fast (Cross-platform)	Slower (Separate codebases)
Performance	Good	Excellent	Excellent
Code Reusability	80-90%	90-95%	0%
Community Support	Excellent	Growing	Platform-specific
Learning Curve	Moderate	Moderate	Steep
Maintenance	Single codebase	Single codebase	Double maintenance
Third-party Libraries	Extensive	Growing	Platform-specific
File Size	Moderate	Larger	Optimized
Hot Reload	Yes	Yes	Limited
Platform Integration	Good	Good	Excellent

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Recommendation: React Native for faster development with good performance balance.

12.2 Backend Technology Comparison

Criteria	Node.js	Python (Django)	Java (Spring)
Development Speed	Fast	Moderate	Slower
Performance	Good	Moderate	Excellent
Scalability	Good	Good	Excellent
Learning Curve	Easy	Easy	Steep
Community	Large	Large	Large
Real-time Features	Excellent	Good	Good
Database Integration	Flexible	Excellent	Excellent
Hosting Options	Many	Many	Many
Development Cost	Lower	Moderate	Higher

Recommendation: Node.js for rapid development and real-time features.

12.3 Database Comparison

Criteria	MongoDB	PostgreSQL	MySQL
Schema Flexibility	High	Low	Low

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Query Performance	Good	Excellent	Good
Scalability	Excellent	Good	Good
ACID Compliance	Partial	Full	Full
JSON Support	Native	Excellent	Good
Learning Curve	Easy	Moderate	Easy
Community Support	Large	Large	Large
Cost	Free/Paid	Free	Free/Paid

Recommendation: MongoDB for flexibility, PostgreSQL for complex queries.

13. RISK ASSESSMENT

13.1 Technical Risks

13.1.1 High-Risk Items

Risk: Third-party API integration failures

Impact: High

Probability: Medium

Mitigation:

- Early integration testing
- Fallback options preparation
- Multiple vendor evaluations

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Risk: Performance issues with large datasets

Impact: High

Probability: Medium

Mitigation:

- Performance testing from early stages
- Database optimization strategies
- Caching implementation

13.1.2 Medium-Risk Items

Risk: Cross-platform compatibility issues

Impact: Medium

Probability: High

Mitigation:

- Regular testing on multiple devices
- Platform-specific optimizations
- User feedback incorporation

13.2 Business Risks

13.2.1 Market Risks

Risk: Changing market requirements

Impact: Medium

Probability: Medium

Mitigation:

- Agile development methodology
- Regular stakeholder feedback
- Flexible architecture design

13.2.2 Resource Risks

Risk: Key team member unavailability

Impact: High

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Probability: Low

Mitigation:

- Cross-training team members
- Comprehensive documentation
- Backup resource planning

13.3 Security Risks

Risk: Data breach or security vulnerabilities

Impact: Very High

Probability: Low

Mitigation:

- Security-first development approach
- Regular security audits
- Compliance with security standards
- Incident response planning

14. MAINTENANCE AND SUPPORT

14.1 Post-Launch Support Plan

14.1.1 Immediate Support (First 3 months)

Included Services:

- Bug fixes and issue resolution
- Minor feature enhancements
- Performance optimization
- User support and training

Response Times:

- Critical Issues: 4 hours

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- High Priority: 24 hours
- Medium Priority: 72 hours
- Low Priority: 1 week

14.1.2 Long-term Maintenance

Monthly Maintenance:

- Security updates and patches
- Performance monitoring and optimization
- Database maintenance and cleanup
- Backup verification and testing

Quarterly Updates:

- OS compatibility updates
- Third-party library updates
- Feature enhancements based on feedback
- Performance analytics review

14.2 Support Channels

- Priority Support: Email and phone
- Documentation: Comprehensive user guides
- Training: User and admin training sessions
- Remote Support: Screen sharing for issue resolution

14.3 Scaling and Enhancement Roadmap

Phase 2 Features (6-12 months):

- Advanced analytics dashboard
- Mobile app performance optimization
- Additional third-party integrations
- Enhanced user experience features

Phase 3 Features (12-18 months):

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- AI/ML-powered recommendations
 - Advanced reporting capabilities
 - Multi-tenant architecture (if applicable)
 - International expansion features
-

APPENDICES

Appendix A: Glossary of Terms

- API: Application Programming Interface
- SRS: Software Requirements Specification
- UI/UX: User Interface/User Experience
- CRUD: Create, Read, Update, Delete
- JWT: JSON Web Token
- REST: Representational State Transfer

Appendix B: Reference Documents

- Company branding guidelines
- Industry compliance requirements
- Third-party service documentation
- Security standards and protocols

Appendix C: Contact Information

Project Stakeholders:

- Project Manager: [Name, Email, Phone]
 - Technical Lead: [Name, Email, Phone]
 - Client Representative: [Name, Email, Phone]
 - Quality Assurance Lead: [Name, Email, Phone]
-

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SIGN-OFF

Client Approval

Name: [CLIENT NAME]

Title: [TITLE]

Date: [DATE]

Signature: _____

Development Team Approval

Name: [PROJECT MANAGER NAME]

Title: Project Manager

Date: [DATE]

Signature: _____

This document serves as the foundation for your mobile application development project. It should be reviewed and updated regularly as requirements evolve and new information becomes available.

For professional SRS creation and mobile app development services, contact:

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