## E-Commerce Platform Software Requirements Specification

This document specifies the functional and non-functional requirements for the E-Commerce Platform system. The system shall provide comprehensive online shopping capabilities for customers and administrative tools for merchants.

#### 2. User Authentication and Authorization

**REQ\_001:** The system shall allow users to register new accounts with email verification. The system must validate email addresses and send confirmation emails within 5 minutes of registration.

**REQ\_002:** The system shall authenticate users using secure login credentials. Users must provide valid username/email and password combinations. Failed login attempts shall be logged and limited to 5 attempts per hour.

**REQ\_003:** The system shall support password reset functionality via email. Password reset links must expire within 24 hours and be single-use only.

**REQ\_004:** The system shall implement role-based access control for administrators, merchants, and customers. Each user role shall have specific permissions and access restrictions to system features.

**REQ\_005:** The system shall maintain user session security with automatic timeout. User sessions must expire after 30 minutes of inactivity for security purposes.

# 3. Product Management

**REQ\_006:** The system shall allow merchants to add new products with detailed information. Product information must include name, description, price, category, images, inventory count, and specifications.

**REQ\_007:** The system shall support product categorization with hierarchical structures. Categories must support multiple levels and allow products to belong to multiple categories.

**REQ\_008:** The system shall provide advanced product search functionality. Search must support keyword matching, category filtering, price ranges, and sorting options.

**REQ\_009:** The system shall display product availability in real-time. Inventory levels must be updated immediately when orders are placed or stock is modified.

**REQ\_010:** The system shall support product reviews and ratings from customers. Customers must be able to rate products from 1-5 stars and write detailed reviews.

# 4. Shopping Cart and Checkout

**REQ\_011:** The system shall provide persistent shopping cart functionality. Cart contents must be preserved across user sessions and browser closures.

- **REQ\_012:** The system shall calculate accurate totals including taxes and shipping. All financial calculations must be precise to two decimal places and include applicable fees.
- **REQ\_013:** The system shall support multiple shipping options with cost calculation. Shipping costs must be calculated based on weight, dimensions, destination, and delivery speed.
- **REQ\_014:** The system shall validate product availability during checkout. The system must verify stock levels and reserve items during the checkout process.
- **REQ\_015:** The system shall support guest checkout without account creation. Guest users must be able to complete purchases with minimal required information.

### 5. Payment Processing

- **REQ\_016:** The system shall integrate with secure payment gateways. Payment processing must comply with PCI DSS standards and support major credit cards.
- **REQ\_017:** The system shall support multiple payment methods including credit cards, PayPal, and digital wallets. Payment options must be clearly displayed and securely processed.
- **REQ\_018:** The system shall handle payment failures with appropriate error messages. Failed payments must provide clear explanations and alternative payment options.
- **REQ\_019:** The system shall generate payment confirmations and receipts. Payment receipts must be emailed immediately and stored in user accounts.
- **REQ\_020:** The system shall support partial refunds and payment reversals. Administrators must be able to process refunds with proper authorization and audit trails.

## 6. Order Management

- **REQ\_021:** The system shall generate unique order numbers for all transactions. Order numbers must be sequential, unique, and include date-based prefixes.
- **REQ\_022:** The system shall track order status throughout fulfillment. Order statuses must include: pending, confirmed, processing, shipped, delivered, and cancelled.
- **REQ\_023:** The system shall send automated order confirmation emails. Confirmation emails must include order details, shipping information, and tracking numbers.
- **REQ\_024:** The system shall provide order history for customers. Customers must be able to view all past orders with detailed information and reorder functionality.
- **REQ\_025:** The system shall support order cancellation within specified timeframes. Orders must be cancellable before shipping with automatic refund processing.

# 7. Inventory Management

- **REQ\_026:** The system shall maintain accurate inventory levels across all products. Stock levels must be updated in real-time and prevent overselling scenarios.
- **REQ\_027:** The system shall generate low stock alerts for merchants. Automatic notifications must be sent when inventory falls below configurable thresholds.

**REQ\_028:** The system shall support inventory reservations during checkout. Products must be temporarily reserved to prevent overselling during payment processing.

**REQ\_029:** The system shall track inventory movements and provide audit trails. All stock changes must be logged with timestamps, reasons, and user information.

**REQ\_030:** The system shall support multiple warehouse locations. Inventory must be trackable across different storage locations with location-based fulfillment.

### 8. Customer Service

**REQ\_031:** The system shall provide customer support ticket functionality. Customers must be able to create, track, and communicate through support tickets.

**REQ\_032:** The system shall support live chat functionality for real-time assistance. Live chat must be available during business hours with automated responses for common questions.

**REQ\_033:** The system shall maintain comprehensive FAQ sections. FAQs must be searchable, categorized, and regularly updated with common customer questions.

**REQ\_034:** The system shall support return merchandise authorization (RMA) process. Customers must be able to initiate returns with automated approval workflows.

### 9. Performance Requirements

**REQ\_035:** The system shall respond to user requests within 2 seconds under normal load. Response times must be measured from request initiation to complete page rendering.

**REQ\_036:** The system shall support concurrent users up to 10,000 without performance degradation. Performance must remain consistent during peak traffic periods.

**REQ\_037:** The system shall maintain 99.9% uptime availability. Downtime must not exceed 8.76 hours per year excluding scheduled maintenance.

**REQ\_038:** The system shall handle database queries efficiently with proper indexing. Database response times must not exceed 100 milliseconds for standard queries.

# 10. Security Requirements

**REQ\_039:** The system shall encrypt all sensitive data in transit and at rest. Encryption must use industry-standard algorithms with minimum 256-bit key strength.

**REQ\_040:** The system shall implement protection against common web vulnerabilities. Security measures must include SQL injection, XSS, CSRF, and other OWASP top 10 protections.

**REQ\_041:** The system shall maintain audit logs for all administrative actions. Logs must include timestamps, user identification, and detailed action descriptions.

**REQ\_042:** The system shall implement secure password policies. Passwords must meet complexity requirements and be stored using secure hashing algorithms.

#### 11. Additional Features

- **REQ\_043:** The system shall support wishlist functionality for customers. Customers must be able to save products for future purchase and share wishlists.
- **REQ\_044:** The system shall provide advanced filtering and sorting options. Product browsing must support filtering by multiple attributes with saved filter preferences.
- **REQ\_045:** The system shall support social media integration for sharing and login. Products must be shareable on social platforms with integrated authentication options.
- **REQ\_046:** The system shall implement loyalty program with points and rewards. Customer activities must earn points redeemable for discounts and special offers.
- **REQ\_047:** The system shall support subscription-based recurring orders. Customers must be able to set up automatic recurring purchases with flexible scheduling.
- **REQ\_048:** The system shall provide price comparison and history tracking. Price changes must be tracked and displayed to customers with trend information.
- **REQ\_049:** The system shall support gift card creation and redemption. Gift cards must be purchasable, customizable, and redeemable with balance tracking.
- **REQ\_050:** The system shall implement advanced search with auto-suggestions. Search functionality must include predictive text, spell correction, and popular searches.

### 12. Mobile Compatibility

- **REQ\_051:** The system shall provide mobile-optimized functionality for requirement 51. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_052:** The system shall provide mobile-optimized functionality for requirement 52. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_053:** The system shall provide mobile-optimized functionality for requirement 53. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_054:** The system shall provide mobile-optimized functionality for requirement 54. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_055:** The system shall provide mobile-optimized functionality for requirement 55. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_056:** The system shall provide mobile-optimized functionality for requirement 56. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_057:** The system shall provide mobile-optimized functionality for requirement 57. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_058:** The system shall provide mobile-optimized functionality for requirement 58. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_059:** The system shall provide mobile-optimized functionality for requirement 59. Mobile users must have access to all essential features with touch-friendly interfaces.
- **REQ\_060:** The system shall provide mobile-optimized functionality for requirement 60. Mobile users must have access to all essential features with touch-friendly interfaces.

### 13. Reporting and Analytics

- **REQ\_061:** The system shall generate comprehensive analytics reports for requirement 61. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_062:** The system shall generate comprehensive analytics reports for requirement 62. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_063:** The system shall generate comprehensive analytics reports for requirement 63. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_064:** The system shall generate comprehensive analytics reports for requirement 64. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_065:** The system shall generate comprehensive analytics reports for requirement 65. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_066:** The system shall generate comprehensive analytics reports for requirement 66. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_067:** The system shall generate comprehensive analytics reports for requirement 67. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_068:** The system shall generate comprehensive analytics reports for requirement 68. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_069:** The system shall generate comprehensive analytics reports for requirement 69. Data visualization must be interactive and exportable in multiple formats.
- **REQ\_070:** The system shall generate comprehensive analytics reports for requirement 70. Data visualization must be interactive and exportable in multiple formats.

## 14. Integration Requirements

- **REQ\_071:** The system shall support third-party integrations for requirement 71. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_072:** The system shall support third-party integrations for requirement 72. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_073:** The system shall support third-party integrations for requirement 73. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_074:** The system shall support third-party integrations for requirement 74. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_075:** The system shall support third-party integrations for requirement 75. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_076:** The system shall support third-party integrations for requirement 76. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_077:** The system shall support third-party integrations for requirement 77. API endpoints must be secure and well-documented for external system connectivity.
- **REQ\_078:** The system shall support third-party integrations for requirement 78. API endpoints must be secure and well-documented for external system connectivity.

**REQ\_079:** The system shall support third-party integrations for requirement 79. API endpoints must be secure and well-documented for external system connectivity.

**REQ\_080:** The system shall support third-party integrations for requirement 80. API endpoints must be secure and well-documented for external system connectivity.

### 15. Content Management

**REQ\_081:** The system shall provide content management capabilities for requirement 81. Content must be easily editable and support multimedia elements.

**REQ\_082:** The system shall provide content management capabilities for requirement 82. Content must be easily editable and support multimedia elements.

**REQ\_083:** The system shall provide content management capabilities for requirement 83. Content must be easily editable and support multimedia elements.

**REQ\_084:** The system shall provide content management capabilities for requirement 84. Content must be easily editable and support multimedia elements.

**REQ\_085:** The system shall provide content management capabilities for requirement 85. Content must be easily editable and support multimedia elements.

**REQ\_086:** The system shall provide content management capabilities for requirement 86. Content must be easily editable and support multimedia elements.

**REQ\_087:** The system shall provide content management capabilities for requirement 87. Content must be easily editable and support multimedia elements.

**REQ\_088:** The system shall provide content management capabilities for requirement 88. Content must be easily editable and support multimedia elements.

**REQ\_089:** The system shall provide content management capabilities for requirement 89. Content must be easily editable and support multimedia elements.

**REQ\_090:** The system shall provide content management capabilities for requirement 90. Content must be easily editable and support multimedia elements.

# 16. Scalability Features

**REQ\_091:** The system shall implement scalable architecture for requirement 91. Performance must be maintained under increasing load conditions.

**REQ\_092:** The system shall implement scalable architecture for requirement 92. Performance must be maintained under increasing load conditions.

**REQ\_093:** The system shall implement scalable architecture for requirement 93. Performance must be maintained under increasing load conditions.

**REQ\_094:** The system shall implement scalable architecture for requirement 94. Performance must be maintained under increasing load conditions.

**REQ\_095:** The system shall implement scalable architecture for requirement 95. Performance must be maintained under increasing load conditions.

- **REQ\_096:** The system shall implement scalable architecture for requirement 96. Performance must be maintained under increasing load conditions.
- **REQ\_097:** The system shall implement scalable architecture for requirement 97. Performance must be maintained under increasing load conditions.
- **REQ\_098:** The system shall implement scalable architecture for requirement 98. Performance must be maintained under increasing load conditions.
- **REQ\_099:** The system shall implement scalable architecture for requirement 99. Performance must be maintained under increasing load conditions.
- **REQ\_100:** The system shall implement scalable architecture for requirement 100. Performance must be maintained under increasing load conditions.

### 17. User Experience

- **REQ\_101:** The system shall enhance user experience for requirement 101. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_102:** The system shall enhance user experience for requirement 102. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_103:** The system shall enhance user experience for requirement 103. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_104:** The system shall enhance user experience for requirement 104. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_105:** The system shall enhance user experience for requirement 105. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_106:** The system shall enhance user experience for requirement 106. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_107:** The system shall enhance user experience for requirement 107. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_108:** The system shall enhance user experience for requirement 108. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_109:** The system shall enhance user experience for requirement 109. Interface design must be intuitive and accessible to users of all skill levels.
- **REQ\_110:** The system shall enhance user experience for requirement 110. Interface design must be intuitive and accessible to users of all skill levels.

# 18. Data Management

- **REQ\_111:** The system shall implement robust data management for requirement 111. Data integrity and consistency must be maintained across all operations.
- **REQ\_112:** The system shall implement robust data management for requirement 112. Data integrity and consistency must be maintained across all operations.

- **REQ\_113:** The system shall implement robust data management for requirement 113. Data integrity and consistency must be maintained across all operations.
- **REQ\_114:** The system shall implement robust data management for requirement 114. Data integrity and consistency must be maintained across all operations.
- **REQ\_115:** The system shall implement robust data management for requirement 115. Data integrity and consistency must be maintained across all operations.
- **REQ\_116:** The system shall implement robust data management for requirement 116. Data integrity and consistency must be maintained across all operations.
- **REQ\_117:** The system shall implement robust data management for requirement 117. Data integrity and consistency must be maintained across all operations.
- **REQ\_118:** The system shall implement robust data management for requirement 118. Data integrity and consistency must be maintained across all operations.
- **REQ\_119:** The system shall implement robust data management for requirement 119. Data integrity and consistency must be maintained across all operations.
- **REQ\_120:** The system shall implement robust data management for requirement 120. Data integrity and consistency must be maintained across all operations.

### 19. Quality Assurance

- **REQ\_121:** The system shall include quality assurance measures for requirement 121. Testing procedures must verify functionality and performance standards.
- **REQ\_122:** The system shall include quality assurance measures for requirement 122. Testing procedures must verify functionality and performance standards.
- **REQ\_123:** The system shall include quality assurance measures for requirement 123. Testing procedures must verify functionality and performance standards.
- **REQ\_124:** The system shall include quality assurance measures for requirement 124. Testing procedures must verify functionality and performance standards.
- **REQ\_125:** The system shall include quality assurance measures for requirement 125. Testing procedures must verify functionality and performance standards.
- **REQ\_126:** The system shall include quality assurance measures for requirement 126. Testing procedures must verify functionality and performance standards.
- **REQ\_127:** The system shall include quality assurance measures for requirement 127. Testing procedures must verify functionality and performance standards.
- **REQ\_128:** The system shall include quality assurance measures for requirement 128. Testing procedures must verify functionality and performance standards.
- **REQ\_129:** The system shall include quality assurance measures for requirement 129. Testing procedures must verify functionality and performance standards.
- **REQ\_130:** The system shall include quality assurance measures for requirement 130. Testing procedures must verify functionality and performance standards.

# 20. Compliance Features

- **REQ\_131:** The system shall ensure regulatory compliance for requirement 131. All applicable industry standards and legal requirements must be met.
- **REQ\_132:** The system shall ensure regulatory compliance for requirement 132. All applicable industry standards and legal requirements must be met.
- **REQ\_133:** The system shall ensure regulatory compliance for requirement 133. All applicable industry standards and legal requirements must be met.
- **REQ\_134:** The system shall ensure regulatory compliance for requirement 134. All applicable industry standards and legal requirements must be met.
- **REQ\_135:** The system shall ensure regulatory compliance for requirement 135. All applicable industry standards and legal requirements must be met.
- **REQ\_136:** The system shall ensure regulatory compliance for requirement 136. All applicable industry standards and legal requirements must be met.
- **REQ\_137:** The system shall ensure regulatory compliance for requirement 137. All applicable industry standards and legal requirements must be met.
- **REQ\_138:** The system shall ensure regulatory compliance for requirement 138. All applicable industry standards and legal requirements must be met.
- **REQ\_139:** The system shall ensure regulatory compliance for requirement 139. All applicable industry standards and legal requirements must be met.
- **REQ\_140:** The system shall ensure regulatory compliance for requirement 140. All applicable industry standards and legal requirements must be met.

### 21. Business Intelligence

- **REQ\_141:** The system shall provide business intelligence capabilities for requirement 141. Decision support tools must be available for strategic planning.
- **REQ\_142:** The system shall provide business intelligence capabilities for requirement 142. Decision support tools must be available for strategic planning.
- **REQ\_143:** The system shall provide business intelligence capabilities for requirement 143. Decision support tools must be available for strategic planning.
- **REQ\_144:** The system shall provide business intelligence capabilities for requirement 144. Decision support tools must be available for strategic planning.
- **REQ\_145:** The system shall provide business intelligence capabilities for requirement 145. Decision support tools must be available for strategic planning.
- **REQ\_146:** The system shall provide business intelligence capabilities for requirement 146. Decision support tools must be available for strategic planning.
- **REQ\_147:** The system shall provide business intelligence capabilities for requirement 147. Decision support tools must be available for strategic planning.
- **REQ\_148:** The system shall provide business intelligence capabilities for requirement 148. Decision support tools must be available for strategic planning.
- **REQ\_149:** The system shall provide business intelligence capabilities for requirement 149. Decision support tools must be available for strategic planning.

**REQ\_150:** The system shall provide business intelligence capabilities for requirement 150. Decision support tools must be available for strategic planning.

### 22. Automation Features

- **REQ\_151:** The system shall implement automation for requirement 151. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_152:** The system shall implement automation for requirement 152. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_153:** The system shall implement automation for requirement 153. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_154:** The system shall implement automation for requirement 154. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_155:** The system shall implement automation for requirement 155. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_156:** The system shall implement automation for requirement 156. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_157:** The system shall implement automation for requirement 157. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_158:** The system shall implement automation for requirement 158. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_159:** The system shall implement automation for requirement 159. Manual processes must be reduced through intelligent automation capabilities.
- **REQ\_160:** The system shall implement automation for requirement 160. Manual processes must be reduced through intelligent automation capabilities.

### 23. Communication Tools

- **REQ\_161:** The system shall provide communication tools for requirement 161. Multi-channel communication must be supported for customer engagement.
- **REQ\_162:** The system shall provide communication tools for requirement 162. Multi-channel communication must be supported for customer engagement.
- **REQ\_163:** The system shall provide communication tools for requirement 163. Multi-channel communication must be supported for customer engagement.
- **REQ\_164:** The system shall provide communication tools for requirement 164. Multi-channel communication must be supported for customer engagement.
- **REQ\_165:** The system shall provide communication tools for requirement 165. Multi-channel communication must be supported for customer engagement.
- **REQ\_166:** The system shall provide communication tools for requirement 166. Multi-channel communication must be supported for customer engagement.

- **REQ\_167:** The system shall provide communication tools for requirement 167. Multi-channel communication must be supported for customer engagement.
- **REQ\_168:** The system shall provide communication tools for requirement 168. Multi-channel communication must be supported for customer engagement.
- **REQ\_169:** The system shall provide communication tools for requirement 169. Multi-channel communication must be supported for customer engagement.
- **REQ\_170:** The system shall provide communication tools for requirement 170. Multi-channel communication must be supported for customer engagement.

### 24. Personalization

- **REQ\_171:** The system shall offer personalization features for requirement 171. User experience must be customized based on individual preferences and behavior.
- **REQ\_172:** The system shall offer personalization features for requirement 172. User experience must be customized based on individual preferences and behavior.
- **REQ\_173:** The system shall offer personalization features for requirement 173. User experience must be customized based on individual preferences and behavior.
- **REQ\_174:** The system shall offer personalization features for requirement 174. User experience must be customized based on individual preferences and behavior.
- **REQ\_175:** The system shall offer personalization features for requirement 175. User experience must be customized based on individual preferences and behavior.
- **REQ\_176:** The system shall offer personalization features for requirement 176. User experience must be customized based on individual preferences and behavior.
- **REQ\_177:** The system shall offer personalization features for requirement 177. User experience must be customized based on individual preferences and behavior.
- **REQ\_178:** The system shall offer personalization features for requirement 178. User experience must be customized based on individual preferences and behavior.
- **REQ\_179:** The system shall offer personalization features for requirement 179. User experience must be customized based on individual preferences and behavior.
- **REQ\_180:** The system shall offer personalization features for requirement 180. User experience must be customized based on individual preferences and behavior.

# 25. Advanced Analytics

- **REQ\_181:** The system shall implement advanced analytics for requirement 181. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_182:** The system shall implement advanced analytics for requirement 182. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_183:** The system shall implement advanced analytics for requirement 183. Machine learning capabilities must provide predictive insights and recommendations.

- **REQ\_184:** The system shall implement advanced analytics for requirement 184. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_185:** The system shall implement advanced analytics for requirement 185. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_186:** The system shall implement advanced analytics for requirement 186. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_187:** The system shall implement advanced analytics for requirement 187. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_188:** The system shall implement advanced analytics for requirement 188. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_189:** The system shall implement advanced analytics for requirement 189. Machine learning capabilities must provide predictive insights and recommendations.
- **REQ\_190:** The system shall implement advanced analytics for requirement 190. Machine learning capabilities must provide predictive insights and recommendations.

#### 26. Future Enhancements

- **REQ\_191:** The system shall support future enhancements for requirement 191. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_192:** The system shall support future enhancements for requirement 192. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_193:** The system shall support future enhancements for requirement 193. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_194:** The system shall support future enhancements for requirement 194. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_195:** The system shall support future enhancements for requirement 195. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_196:** The system shall support future enhancements for requirement 196. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_197:** The system shall support future enhancements for requirement 197. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_198:** The system shall support future enhancements for requirement 198. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_199:** The system shall support future enhancements for requirement 199. Architecture must be flexible to accommodate evolving business needs and technologies.
- **REQ\_200:** The system shall support future enhancements for requirement 200. Architecture must be flexible to accommodate evolving business needs and technologies.