**Software Solution Requirements Template**

**Document Information**

|  |  |
| --- | --- |
| **Document Title** | [Project Name] - Software Requirements Specification |
| **Version** | 0.1 |
| **Status** | Draft |
| **Created Date** | [Date] |
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| **Prepared By** | [Names] |
| **Reviewed By** | [Names] |

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description of Changes** | **Status** |
| 0.1 | [Date] | [Name] | Initial draft | Draft |
|  |  |  |  |  |
|  |  |  |  |  |

**1. Problem Statement**

*[Provide a clear, concise description of the problem this software solution aims to solve. Include relevant background information and explain why solving this problem is important. Describe the current state, the desired state, and the gap between them.]*

**Current Situation:**

**Desired Outcome:**

**Impact of the Problem:**

**2. Assumptions**

*[Document the assumptions being made that could affect the solution's requirements. These are factors believed to be true but not confirmed.]*

**2.1 Business Assumptions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Assumption** | **Impact if Invalid** | **Validation Approach** | **Status** |
| BA01 |  |  |  | Unverified |
| BA02 |  |  |  | Unverified |
|  |  |  |  |  |

**2.2 Technical Assumptions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Assumption** | **Impact if Invalid** | **Validation Approach** | **Status** |
| TA01 |  |  |  | Unverified |
| TA02 |  |  |  | Unverified |
|  |  |  |  |  |

**3. Constraints**

*[Document the limitations that restrict how the solution can be designed or implemented.]*

**3.1 Technical Constraints**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Constraint** | **Description** | **Impact** | **Mitigation** |
| TC01 |  |  |  |  |
| TC02 |  |  |  |  |
|  |  |  |  |  |

**3.2 Schedule Constraints**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Constraint** | **Description** | **Impact** | **Mitigation** |
| SC01 |  |  |  |  |
| SC02 |  |  |  |  |
|  |  |  |  |  |

**3.3 Resource Constraints**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Constraint** | **Description** | **Impact** | **Mitigation** |
| RC01 |  |  |  |  |
| RC02 |  |  |  |  |
|  |  |  |  |  |

**4. Dependencies**

*[Document the relationships where the project requires something from other projects, systems, or external factors.]*

**4.1 Internal Dependencies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Dependency** | **Description** | **Owner** | **Due Date** | **Status** | **Impact if Delayed** |
| ID01 |  |  |  |  |  |  |
| ID02 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**4.2 External Dependencies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Dependency** | **Description** | **Owner** | **Due Date** | **Status** | **Impact if Delayed** |
| ED01 |  |  |  |  |  |  |
| ED02 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**4.3 Critical Path Dependencies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Dependency** | **Description** | **Impact** | **Mitigation Strategy** |
| CP01 |  |  |  |  |
| CP02 |  |  |  |  |
|  |  |  |  |  |

**5. Exclusions**

*[Explicitly document what is NOT included in the scope of this project to prevent scope creep and set accurate expectations.]*

**5.1 Scope Exclusions**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Exclusion** | **Rationale** | **Future Consideration?** |
| SE01 |  |  |  |
| SE02 |  |  |  |
|  |  |  |  |

**5.2 Technical Exclusions**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Exclusion** | **Rationale** | **Future Consideration?** |
| TE01 |  |  |  |
| TE02 |  |  |  |
|  |  |  |  |

**6. Project Objectives and Success Criteria**

*[Define the specific, measurable objectives that this software solution should achieve. These should directly address the problem stated above.]*

**Primary Objectives:**

**Success Criteria:**

**Key Performance Indicators:**

**7. Stakeholder Analysis**

*[Identify all stakeholders involved with or affected by this software solution, and describe their interests, influence, and requirements.]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Stakeholder Group** | **Role/Interest** | **Key Requirements** | **Priority** | **Involvement Level** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**8. Functional Requirements**

*[Detail what the system should do. Organize by features, user stories, or use cases. Number each requirement for clear referencing.]*

**8.1 Core Functionality**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| FR01 |  |  | High | Draft |
| FR02 |  |  | Medium | Draft |
| FR03 |  |  | Low | Draft |

**8.2 User Interactions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| FR04 |  |  |  | Draft |
| FR05 |  |  |  | Draft |
|  |  |  |  |  |

**8.3 Data Processing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| FR06 |  |  |  | Draft |
| FR07 |  |  |  | Draft |
|  |  |  |  |  |

**9. Non-Functional Requirements**

*[Specify quality attributes, technical requirements, and constraints that are not directly related to functionality.]*

**9.1 Performance Requirements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Metric** | **Target Value** | **Priority** | **Status** |
| NF01 |  |  |  |  | Draft |
| NF02 |  |  |  |  | Draft |
|  |  |  |  |  |  |

**9.2 Security Requirements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| NF03 |  |  |  | Draft |
| NF04 |  |  |  | Draft |
|  |  |  |  |  |

**9.3 Usability Requirements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| NF05 |  |  |  | Draft |
| NF06 |  |  |  | Draft |
|  |  |  |  |  |

**9.4 Reliability and Availability Requirements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Metric** | **Target Value** | **Priority** | **Status** |
| NF07 |  |  |  |  | Draft |
| NF08 |  |  |  |  | Draft |
|  |  |  |  |  |  |

**9.5 Maintainability Requirements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Requirement** | **Description** | **Priority** | **Status** |
| NF09 |  |  |  | Draft |
| NF10 |  |  |  | Draft |
|  |  |  |  |  |

**10. System Architecture Overview**

*[Provide a high-level description of the system architecture, including major components and how they interact.]*

**10.1 System Context Diagram**

*[Insert diagram showing the solution in context with external systems]*

**10.2 Component Architecture**

*[Insert diagram showing major system components and their relationships]*

**10.3 Technology Stack**

|  |  |  |  |
| --- | --- | --- | --- |
| **Layer** | **Technology Options** | **Selection** | **Rationale** |
| Frontend |  |  |  |
| Backend |  |  |  |
| Database |  |  |  |
| Infrastructure |  |  |  |
| Other |  |  |  |

**11. Component Specifications**

*[For each major component of the system, provide detailed specifications]*

**11.1 Component Name: [Component 1]**

**Purpose:** *[Brief description of the component's purpose]*

**Responsibilities:**

**Interfaces:**

* **Input:** *[What data/events does this component receive?]*
* **Output:** *[What data/events does this component produce?]*
* **External Systems:** *[What external systems does this component interact with?]*

**Behavior Specifications:**

**Dependencies:**

**Constraints:**

**Status:** Draft

**11.2 Component Name: [Component 2]**

*[Copy the structure above for each component]*

**12. Data Requirements**

**12.1 Data Entities**

*[List and describe the main data entities in the system]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entity** | **Description** | **Attributes** | **Relationships** | **Volume Estimates** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**12.2 Data Flow**

*[Describe how data flows through the system]*

**12.3 Data Storage Requirements**

*[Describe requirements for data storage, including retention policies, backup needs, etc.]*

**13. User Interface Requirements**

**13.1 User Personas**

*[Describe the key user types/personas who will interact with the system]*

**13.2 User Journeys**

*[Map out the critical user journeys through the system]*

**13.3 Screen Mockups**

*[Include sketches, wireframes, or mockups of key screens]*

**13.4 UI Standards and Guidelines**

*[Specify any UI standards or guidelines to be followed]*

**14. Integration Requirements**

**14.1 External System Interfaces**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **System** | **Interface Type** | **Data Exchanged** | **Protocol** | **Frequency** | **Notes** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**14.2 API Specifications**

*[Detail API requirements, including endpoints, methods, authentication, etc.]*

**15. Security and Compliance Requirements**

**15.1 Authentication and Authorization**

*[Specify requirements for user authentication and access control]*

**15.2 Data Protection**

*[Specify requirements for data encryption, masking, anonymization, etc.]*

**15.3 Audit and Logging**

*[Specify requirements for system auditing and logging]*

**15.4 Compliance Requirements**

*[List any regulatory or compliance requirements the system must meet]*

**16. Testing Requirements**

**16.1 Testing Approach**

*[Describe the overall approach to testing]*

**16.2 Test Types**

*[Specify what types of testing will be performed (unit, integration, system, UAT, etc.)]*

**16.3 Test Environments**

*[Describe required test environments]*

**16.4 Test Data Requirements**

*[Specify requirements for test data]*

**17. Deployment and Operations**

**17.1 Deployment Requirements**

*[Specify requirements for system deployment]*

**17.2 Operational Requirements**

*[Specify requirements for ongoing operations, including monitoring, backup/restore, etc.]*

**17.3 Support Requirements**

*[Specify requirements for user and technical support]*

**18. Glossary**

*[Define any terms, acronyms, or abbreviations used in this document]*

|  |  |
| --- | --- |
| **Term** | **Definition** |
|  |  |
|  |  |
|  |  |

**19. Appendices**

*[Include any additional information that supports the requirements specification]*

**Appendix A: Reference Documents**

**Appendix B: Research Findings**

**Appendix C: Technical Constraints and Assumptions**

**20. Sign-off**

*[Document formal approval of the requirements]*

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Name** | **Signature** | **Date** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |