**Software Requirements Specification**

**Version** 1.0

Enemy Lines

**Group** B9

|  |  |  |
| --- | --- | --- |
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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name(s)** | **Date** | **Reason(s) For Change(s)** | **Version** |
|  |  |  |  |
|  |  |  |  |

# **Introduction**

## **Product**

*<Provide a short description of the software being specified.>*

## **Scope**

*< Describe the scope of the product that is covered by this SRS.>*

## **Business Goals**

*<List all the business/corporate goals addressed by this software.>*

## **Document Conventions**

*<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether italicized nouns represent external systems.>*

## **References**

*<List all books, conference papers, journal articles, websites, etc. used in preparing the content of this SRS. Provide enough information so that the reader could access a copy of each reference, including title, author, volume/edition number, page number(s), and publication year. Mention complete URLs for websites.>*

# **Overall Description**

## **Product Features**

*<Summarize the major features the product contains or the significant functions that it performs or lets the user perform. Details will be provided in Section 3, so only a high level summary is needed here. Organize the functions to make them understandable to any reader of the SRS.>*

## **User Classes and Characteristics**

*<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the favored user classes from those who are less important to satisfy.>*

## **Operating Environment**

*<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.>*

## **Design and Implementation Constraints**

*<Describe any items or issues that will limit the options available to the developers. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).>*

## **Assumptions and Dependencies**

*<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>*

# **Functional Requirements**

*<All functional requirements are expressed as use-cases. Fill out the following template for each use-case. Don’t really say “Use-Case 1.” State the use-case name in just a few words e.g. “Withdraw Cash from ATM”. A use-case may have multiple alternate courses of action.>*

## **Use-Case 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | | UC-1 | |
| **Purpose** | | … | |
| **Priority** | | <Choose one from {High, Medium, Low}> | |
| **Actors** | |  | |
| **Pre-conditions** | | … | |
| **Post-conditions** | | … | |
| **Typical Course of Action** | | | |
| **S#** | **Actor Action** | | **System Response** |
| **1** |  | |  |
| **2** |  | |  |
| **3** |  | |  |
| **…** |  | |  |
| **Alternate Course of Action** | | | |
| **S#** | **Actor Action** | | **System Response** |
| **1** |  | |  |
| **2** |  | |  |
| **3** |  | |  |
| **…** |  | |  |

**Table 1: UC-1**

## **Use-Case 2 (and so on)**

# **Nonfunctional Requirements**

## **Performance Requirements**

*<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>*

## **Security Requirements**

*<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>*

# **Other Requirements**

*<Define any other requirements not covered elsewhere in the SRS. These might include database requirements, external (hardware, software, or communication) interface requirements, internationalization requirements, legal requirements, and reuse objectives for the project.>*

**Appendix A: Glossary**

*<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>*

**Appendix B: Analysis Models**

*<Include the following analysis models: use-case diagram, entity-relationship diagram, class diagram, data flow diagram*.>

**Appendix C: Design Models**

*< Include the following design model: component diagram.>*

**Appendix D: Screenshots**

*< Include all screenshots of your software application’s graphical user interface.>*

**Appendix E: Test Cases**

*< Fill out the following template for each test case.>*

|  |  |
| --- | --- |
| **Identifier** | TC-1 |
| **Priority** | <Choose one from {High, Medium, Low}> |
| **Related requirements(s)** | <Include use-case identifier(s) for functional requirement(s) and SRS section/sub-section number(s) for other requirement(s).> |
| **Short description** | … |
| **Pre-condition(s)** | … |
| **Input data** | … |
| **Detailed steps** | … |
| **Expected result(s)** | … |
| **Post-condition(s)** | … |

**Table 2: TC-1**

**Appendix F: IV & V Report**

**IV & V Resource**

Name Roll # Signature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S#** | **Defect Description** | **Origin Stage** | **Status** | **Fix Time** | |
| **Hours** | **Minutes** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| … |  |  |  |  |  |

**Table 3: List of non-trivial defects**

**Appendix G: Risk Report**

**[[1]](#footnote-0)Project Risks**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Risk Description** | **Impact**  **(1 – 10)** | **Probability**  **(0 – 1)** | **[[2]](#footnote-1)Risk**  **Exposure** | **Weeks Active** | **Mitigation Strategy** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Appendix H: Activity Timesheet**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Time** | |
| **Hours** | **Minutes** |
| Requirements Engineering |  |  |
| Analysis and Design |  |  |
| Implementation |  |  |
| Testing |  |  |
| Deployment |  |  |
| Project Management |  |  |
| IV & V |  |  |

**Project Manager**

Name Roll # Signature

**Appendix I: Updated Project Plan**

*< Include screenshots of your updated project plan prepared using MS Project.>*

1. Risks should be sorted in descending order of risk exposure. [↑](#footnote-ref-0)
2. Risk Exposure = Risk Impact x Risk Probability [↑](#footnote-ref-1)