Software Requirements Specification

for

PROJECT INSIGHT

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Purpose

*Brain explorer.*

*Artificial intelligence gaming.*

## Document Conventions

## Intended Audience and reading suggestions

*FOR GAMERS,*

*WWW.COURSEHERO.COM*

## Product Scope

*TIC TAC TOE IS NOT A VERY CHALLENGING GAME FOR HUMAN BEING IF YOU’RE ENTHUSIAST YOU’VE PROBABLY MOVED FROM THE BASIC GAME TO SOME VARIANT THREE DIMENSIONAL TIC TAC TOE ON A LARGER GRID.IT WILL EXPLORE MIND OF THE HUMANS .*

## References

*GOOGLE,*

*WIKIPEDIA,*

*LET US ‘C’.*

# Overall Description

## Product Perspective

*THE REPORT IS AN INTRODUCTI ON TO THE TIC TAC TOE GAME IN C PROGRAMMING ANY BODY WHO DOES NOT KNOW EVEN THE BASICS OF TIC TAC TOE IN ‘C’ ,WILL BE CERTAINLY ABLE TO UNDERSTAND THE GAIN THE GREAT KNOWLEDGE FOR THIS REPORT THE CORE THEME OF THE REPORT FOCUS ON THE DEVELOPMENT OF TIC TAC TOE GAME IN ,’C’ LANGUAGE AND REPORT ALSO CONTAIN THE STRATEGY OF MAKING TIC TAC TOE GAME WHICH SERVE A GOOD IDEA TO MAKE A TIC TAC TOE GAME PROGRAM IN ‘C’ LANGUAGE TO THE PROGRAMMER.*

*THE MOST OF THE IDEA OF MAKING THIS GAME AND REPORT IS TAKEN FROM ‘LET US ‘C’.*

## Product function

*Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 4, so only a high level summary (such as a bullet list) is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, is often effective.*

## 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.*

## User Documentation

*List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.*

# External Interface Requirements

## User Interfaces

*Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.*

## Hardware Interfaces

*Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.*

## Software Interfaces

*Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communication Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way specify this as an implementation constraint.>*

## Communications Interfaces

*Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.*

# System Features (Use Cases)

*This illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.*

## Use Case 1

*<Don’t really say “Use case 1.” State the feature name in just a few words.>*

### Name: TIC-TAC-TOE

### Goal: ENTERTAINMENT

### Input: O, X

### Output: WIN, LOSE, DRAW

### Pre-condition: THREE SEQUENCE

### Steps: ALTERNATE

### Exceptional Scenario: DRAW

# 4.1.8 EXAMPLE OF DRAW CASE:

**X|O|X**

**X|O|X**

**O|X|O**

### 4.1.9EXAMPLE OF WIN CASE:

**A .VERTICAL CASE:**

**X|O|O**

**X|O|X**

**X|X|O**

**B. HORIZONTAL CASE:**

**X|X|X**

**X|O|O**

**O|X|O**

**C. DIGONAL CASE:**

**X|O|X**

**O|X|O**

**O|O|X**

# Other 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.*

## Safety Requirements

*Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied.*

## 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.*

## Software Quality Attributes

*Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.*

# Other Requirements

*Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.*