Software Requirements Specification

for

Cyber Cafe Management System

Version 3.0 approved

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Revision History

Name	Date	Reason For Changes	Version
1st Srs	17-01-19	Addition of Introduction	1
2nd Srs	07-02-19	Addition of System Features	2

1. Introduction

1.1 Purpose

The purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals.This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

1.2 Document Conventions

The document is using simple conventions headings for different sections is size 18 cm in bold. These are numbered as well.The sub headings are numbered by heading number followed by "." and the subheading number. Sub headings are of size 14 cm and the details under it is of size 11 cm. Page number is marked with headings and subheadings in table of content which allow easy access to the material.

1.3 Intended Audience and Reading Suggestions

The intended audience for this document is project developers and users who wish to view the project requirements and specifications. The rest of the documents has been highlighted the overall description, functional requirement, non-functional requirement, deployment strategy and tentative development schedule.

1.4 Product Scope

This project is intended to be used in Cyber Cafe . All cyber cafes have some basic needs likeable to control the systems that are being rented to the customers and are charged on timely basis.This project only have server part which runs on Admin system .The Admin should have control over the usage of the client system and keep track of what the client is doing. Also we can have a column for calculation of extra charges if the client wants to take a printout or a photocopy.

1.5 References

The references are :

1. SRS_IEEE_TEMPLATE
2. E-STORE PROJECT BY MARVEL ELECTRONICS AND ENTERTAINMENT
3. SRS BY KARL E WIEGERS

2. Overall Description

2.1 Product Perspective

Let's say someone goes to the cyber cafe and tries to access dangerous information which is intended for wrong purpose .Example can be ,if someone tries to access information like how to make a bomb at home .Other realistic examples can be if someone tries to fool girls on social media or tries to cyber attack from the cyber cafe then it is very important for the owner to keep record of the customers who visited the shop and what activities they performed.It is also difficult for the owner to keep track of the time limit of different users if there are many terminals.
Cyber Cafe management system is app which provide the ease to the owner to distribute the customer to different terminals in best possible way and to know when the session is complete .Its major advantage is that it records the type of terminals accessed by the customers and full details of the customers are recorded in the database so that if any enquiry is needed by anyone later it can be systematically done.It works on the admin's front so user cannot manipulate or access any part of the information in the system.

2.2 Product Functions

Product functions will include following:

1. *Making account and its interface*
2. *Making customer information interface*
3. *Making session end information interface*
4. *Making system information related interface*

2.3 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 most important user classes for this product from those who are less important to satisfy.>

2.4 Operating Environment

The software will run on the any operating system which can run JAVA applications .It is possible if they can run Java Virtual Machine .Popular examples would be windows installed with Java and ubuntu or any linux operating system.

2.5 Design and Implementation Constraints

The operating system must have the functionality to run java virtual machine. Design should be user friendly so that the admin can use it without much difficulty. It should be designed such that history before some time limit gets deleted automatically. Implementation will use multi-thread programming so it will use the concept of parallel processing.This can arise problems of thread crash .This should be handled carefully and implementation should be thread safe.

2.6 User Documentation

The user will be provided with be provided the help documentation which contains the way to handle the interfaces

2.7 Assumptions and Dependencies

The software will use the machine local time so it is assumed that no tampering is done with that clock time otherwise wrong data will be recorded and this can be misused by anyone

3. External Interface Requirements

3.1 User Interfaces

It tells about all the different interfaces present in the system.

The Main screen of user will contain following buttons

1. *Account Register*
2. *Login*
3. *Logout*

3.1.1 Account Register

It will contain two text boxes for entering the username and password .It will have one submit button for submitting the information .

3.1.2 Login

It will contain two text boxes for entering the username and password .It will have one submit button for submitting the information .

It will open another interface if information entered matches

1. *Enter System Info*
2. *Show System Info*
3. *Enter Customer Info*
4. *Show Customer Info*
5. *Amount Received*

3.1.2.1 Enter System Info

This button will open interface which will contain the text boxes in which will take user input of the system informations required by the user to enter as mentioned in functional requirement part .The opened interface will have a submit button.

3.1.2.2 Show system Info

This button will open window which show all the system information stored in the database .It is just read only window and contain a exit button to close.

3.1.2.3 Enter Customer Info

This button will open interface which will contain the text boxes in which will take user input of the customer informations required by the user to enter as mentioned in functional requirement part. The opened interface will have submit button.

3.1.2.4 Show Customer Info

This button will open window which show all the customer information stored in the database .It is just read only window and contain a exit button to close.

3.1.2.5 Amount Received

This button will open window which show the amount received till now by the owner of the cafe .It will be read only window and contain he exit button to exit the window.

3.1.3 Logout

This will exit the system and all the windows will be closed

3.2 Hardware Interfaces

It is just that the system must have sufficient memory for the storage of the details in the database.

NOTE: Other Interfaces which are not present are not mentioned .

4. System Features

4.1 Creating Account

<Don't really say "System Feature 1." State the feature name in just a few words.>

4.1.1 Description and Priority

This will make the account for the user which will be required to login whenever the user will open the software.

4.1.2 Stimulus/Response Sequences

It will check if the length of the username cross the specified limit ,if so it will display error.

4.1.3 Functional Requirements

It should ask for :

1. Enter user name
2. Enter Password

Actions to be performed:
1. Display error "Try Again" is the username or password cross the specified limit.

4.2 Create Login Interface

4.2.1 Description and Priority

Create a login interface which provide authentication to the valid owner to access the other informations.

4.2.2 Stimulus/Response Status

If the entered username or password is not in database it will display error message.It will open the next interface if the login credentials are correct.

4.2.3 Functional Requirements

It should ask for :

1. Enter user name

2 Enter Password

Actions to be performed:

1. Display error “Invalid details” if the username or password is not in the database

4.3 Input System Information

4.3.1 Description and Priority

Ask owner to provide necessary system information for the system to operate further.

4.3.2 Stimulus/Response Status

Store the entered system information in the database

4.3.3 Functional Requirements

It should ask for :

1. Enter the number of systems

2. Types of various systems

3. Rates of using various systems

Actions to be performed:

2. Link to the database the informations entered

3. Display error message “Invalid input “ if types cross the one mentioned in the help book.

4.4 Update System Information

4.4.1 Description and Priority

Show the user the system information and allow them to change it as required .

4.4.2 Stimulus/Response Status

Update the database with the new information

4.4.3 Functional Requirements

Actions to be performed:

1. Link to the database the informations entered

2. Display error message “Invalid input “ if types cross the one mentioned in the help book.

4.5 Show System Information

4.5.1 Description and Priority

Show the user the system information.

4.5.2 Stimulus/Response Status

No response as there is no input just it will display the informations.

4.5.3 Functional Requirements

There is no requirement just the user have to click the show button.

4.6 Enter Customer Information

4.6.1 Description and Priority

Ask the user the works it want to perform in café and what are his requirements.

4.6.2 Stimulus/Response Status

Record the requirements in the database .

4.6.3 Functional Requirements

It should ask for :

1. Enter the name of the user

2. Enter the age

3. Enter the email address

4. Enter the address

5. Enter the system type user want to use

6. Enter the duration and no of pages accordingly

Actions to be performed:

Allot terminal number and tell the user the waiting

time for his terminal turn.

1. Display error message “Invalid input “ if wrong information is entered according to common format.

4.7 View Customer Information till now

4.7.1 Description and Priority

Show the user the information about the customers who have visited till now .

4.7.2 Stimulus/Response Status

No response as there is no input just it will display

4.7.3 Functional Requirements

There is no requirement just the user have to click the show button.

4.8 Inform Admin about session complete

4.8.1 Description and Priority

A pop up will be displayed when the session is completed of any user at any terminal.

4.8.2 Stimulus/Response Status

Require the user to click on the OK button for the message to vanish.

4.8.3 Functional Requirements

There is no requirement just the user have to click the OK button.

4.9 Show amount received till now

4.9.1 Description and Priority

This will show the amount till now the owner have made with the individual system amounts.

4.9.2 Stimulus/Response Status

Require the user to click on the EXIT button for the message to vanish.

4.9.3 Functional Requirements

There is no requirement just the user have to click the OK button.

Other Nonfunctional Requirements

4.10 Performance Requirements

The primary performance requirement is processor speed and its better data parallelism hardware support. More the core better will be system performance.Intel core I7 is recommendable

4.11 Safety Requirements

There are no safety requirements with this application, other than any normal hazards of password disclosure.

4.12 Security Requirements

The data of the users who have visited the shop which is stored in the database should not be disclosed with anyone except the investigating autority with permission.This is important for the user privacy.The system should withstand any cyber attack if done.

4.13 Maintainability

The software should provide the ease to change the data on which it operate like it has been mentioned in functional requirements that there should be a function to change the system information like rates etc

4.14 Business Rules

This is for educational purpose and will be open sourced later .!

4.15 Adaptability

The system should inform the user if he tries to enter any value which is not practically possible because that might be any logical or typing error.

5. 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.>

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

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>