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| Video Rental Store |
| Software Requirements Specification |
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| This document details requirements for <<product>> owned by <<Customer name>>. |

**Document Revision History**

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**Acronyms and Abbreviations**

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| **Abbreviation** | **Description** |
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# Introduction

## Purpose

The purpose of this document is to define the requirements for the Video Rental System. The intended audience includes development team, requirements team, requirements analyst, and other members of the developing organization. This document helps owner of the VRS to create a new business analogy that everything done online.

## Organization of the Document

Section 1 gives detail introduction about the System like scope, purpose. Section 2 of the SRS describes the product in detail. Section 3 provides External interface Requirements. Section 4 provides a complete list of Functional Requirements. Section 5 provides Non-Functional Requirements. Section 7 describes glossary.

## Intended Audience

* Owner – the person with administrative power of VRS
* Customer – the person who uses the system
* Team members
* Evaluators
* Guide

## Product Scope

The system will allow the user to login/register to a video rental store portal and search for videos and select the videos of his choice from the database. The system will also allows to rent the videos to user.

# Overall Description

## Product Perspective

The VRS is a web-based system. All the functions of the system done online.

## Product Functions

* Registering or logging in the user to VRS
* Searching the videos.
* Selecting videos of his choice.
* Rent videos
* Logout

## User Classes and Characteristics

There are 3 main user classes

* Customer – he should be able to login/register to VRS and access the required information like title of video, ratings, search and select the videos
* Owner – Administrator of the VRS. Who has the privilege of adding/removing the videos, modifying the price etc.
* Video Rental System – This is an interface to rent videos to users.

## Operating Environment

* Operating System Windows XP and above.
* Browser (chrome or Firefox or opera)

## Design and Implementation Constraints

* User must have internet connection.
* User must use selected versions of browsers.
* User should not be allowed to modify the contents in the database.
* User can select limited number of videos on one day.

## User Documentation

* User manual providing information about all the functionality of the function.
* Video education of the system will be provided.

## Assumptions and Dependencies

* login credentials (Invalid)
* Unavailability of required videos
* Bad internet connection

# External Interface Requirements

## User Interfaces

* Registration/ login page where user can enter his details
* Error messages if the login credentials are not valid and searched video is not available.
* List of available videos displayed on screen.
* Option to search for required videos

## Hardware Interfaces

* RAM (more than 2GB)
* Computer (laptop or Desktop)
* Processor (any)

## Software Interfaces

* JDK version (1.5 and above)
* Eclipse(luna/mars)
* MySQL database
* Browser (chrome, firefox, opera)

## Communications Interfaces

* http protocol
* apache-tomcat server

# System Features

## System Feature 1

Registering or logging in to the system

### Description and Priority

* The user or admin has to login with valid login credentials.
* If new user wants to rent the video he has to register by entering the details required.
* The system should allow the user to select password of his choice

### Stimulus/Response Sequences

* If login credentials are valid then the user will be given access to the videos in the database
* If the login credentials are not valid then appropriate error message should be displayed.

### Functional Requirements

REQ-1: user has to type the credentials

REQ-2: form level validation of credentials

REQ-3: if new user registers he has to choose a password

REQ-4: press the submit button

## System Feature 2

Search video information.

### Description and Priority

* The registered member can search the videos available
* The user has to specify the category of the movie that he wants to search
* The search can be done based on more than one detail about the video

### Stimulus/Response Sequences

* If search is successful then it should display the details of that video
* If search is not successful then appropriate error message should be displayed.

4.2.3 **Functional requirements**

REQ-1: the user has to login to the system

REQ-2: the user has to enter the keyword for searching the video

REQ-3: press the submit button

## System Feature 3

Renting the video

### Description and Priority

* the registered member can rent the video
* the user can rent more than one video
* the limit of number of videos will be 5

### Stimulus/Response Sequences

* if the renting of the videos is successful then confirmation message should be sent to him
* if not successful appropriate error message should be displayed.

### Functional Requirements

REQ-1: the user has to login to the system

REQ-2: user has to select one or more than one video

REQ-3: press the submit button

## System Feature 4

Modifying the user credentials

### Description and Priority

* The user will be having the authority to change his details like email and mobile number
* For this operation the user must login first
* After successful modification the details in the database will be changed for that respective user
* The user must enter valid details

### Stimulus/Response Sequences

* If the modification is successful then the database should be updated and appropriate message should be delivered
* If not successful then appropriate error message should be displayed.

### Functional Requirements

REQ-1: the user has to login with old credentials

REQ-2: select the option of modifying details

REQ-3: enter the new credentials

REQ-4: form level validation

REQ-5: press the submit button

## System Feature 5

Allowing the owner of the video rental store to add, remove and modify the video information

### Description and Priority

* The owner has the privilege of add, remove and change the video information
* The owner should authenticate himself to perform these operation

### Stimulus/Response Sequences

* The database should be updated after successful modification by owner
* If not successful then appropriate error message should be generated

### Functional Requirements

REQ-1: the owner should login with valid credentials

REQ-2: the owner has to select appropriate choice for any medication

REQ-3: press the submit button

# Other Non-functional Requirements

## Performance Requirements

* Response time - For any specified video, the relevant information is retrieved within 5 seconds
* Efficiency – Systems performance should be above 80%.

## Safety Requirements

The user should take periodic backups of the scans to prevent the loss of any data.

## Security Requirements

Users will not be able to use the system without proper authentication.

## Software Quality Attributes

**Usability:**

* The installation time of the proposed product will be less than 30 seconds.
* The user needs to go through user’s manual for understanding the operability of the system.

**Modifiability:**

* database can be extended for larger size.
* The proposed system can be modified for using over a network.

# 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

[1]. VRS : Video Rental Store is an application which allows renting of videos to users .

# Appendix B: Analysis Models

[1]. Data Flow Diagrams:

[2]. Class Diagrams

[3]. ER Diagrams

# Appendix C: To Be Determined List