Software Requirements Specification

For

PlaylistY!

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
-	-	-	-
-	-	-	-

1. Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the PlaylistY! Web app. It will explain the purpose and features of the application, the interfaces of the application, what the application will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the application and will be proposed to **Ms Shazia Tauseef** for its approval.

1.2 Document Conventions

This document uses the following conventions DB (Database), GUI (Graphical User Interface), Video Streaming and Video Uploading.

1.3 Intended Audience and Reading Suggestions

The targeted audience for this application are social enthusiast. People who will use this platform to make a better community for watching and sharing videos.

1.4 Product Scope

This web application will be an online Video Sharing System. This application will be designed to provide a platform so that user can upload their videos and stay connected socially.
This application will allow user to search through the database for all categories of video and watch them. It also allows them to upload and share their video for the community.

2. Overall Description

2.1 Product Perspective

The product is supposed to be proprietary software. It is a Web based Application software model. The PlaylistY! Provides simple mechanism for users to watch and share videos with community.

2.2 Product Functions

Main functions of the PlaylistY! Application are:

- End-User can search through all the published videos

- End-User can upload new videos to share them with community

- End-User can watch any of the published videos

2.3 User Classes and Characteristics

There are two types of users that interact with the application: End-User and Admin. Each of these two types of users has different use of the system so each of them has their own requirements.

2.4 Operating Environment

The software will operate on any modern web browser which supports Video Streaming or Flash.

2.5 Design and Implementation Constraints

- Language Requirements: Software must be in English (en-US) Language.

2.6 Assumptions and Dependencies

End-User must have an active internet connection and must use the modern browser. User must register in order to upload a new video.

3. External Interface Requirements

3.1 User Interfaces

First User Interface in front of user provide trending videos and header with functionality of log in and search videos.

When clicked on a video user is routed to a video play page. Where selected video is played.

3.2 Hardware Interfaces

Hardware must have web browser to run the application.

3.3 Software Interfaces

This application has three interfaces for Main Search Page, Video play page and Upload Page.

3.4 Communications Interfaces

This application uses server communication protocols for video calling and voice calling.

4. System Features

4.1 System Feature 1

Search videos in database

4.1.1   Description and Priority

This use case fetches videos from database and shows them on the right side below header

4.1.2   Stimulus/Response Sequences

1) User enters query in search form and clicks the search button.

2) The query request is sent to the database.

3) Database responds with the search result of query.

4) Resulted videos will be displayed below header on the right side.

4.1.3   Functional Requirements

o   Search videos in database

4.2 System Feature 2

Upload a Video

4.1.1   Description and Priority

This use-case provides the functionality to upload a video on the web app.

4.1.2   Stimulus/Response Sequences

1) Click on upload button on the header.

2) User is routed to upload page.

3) User selects a file to upload.

4) User select a thumbnail.

5) User fill the required details for video (i.e. title, description, tags)

6) Click on the publish button to publish video.

4.1.3   Functional Requirements

○ Upload a Video

4.3 System Feature 3

Watch Videos

4.1.1   Description and Priority

This use case enables user to watch any video published on the application.

4.1.2   Stimulus/Response Sequences

1) User clicks on video

2) User is routed to the video play page.

3) User can pause/play videos.

4.1.3   Functional Requirements

Watch Videos

5. Other Nonfunctional Requirements

5.1 Prominent Search Feature

The search feature should be prominent and easy to find for the user.

5.2 Response Time

The fastness of the search, if the internet connection is fast then the response time will be less

5.3 System Dependability

The fault tolerance of the system, if the system loses the connection to the Internet the system gets some strange input, the user should be informed.

5.4 Software Quality Attributes

Reliability:

The probability that this application fulfills a function that is defined in the above functional requirements.

5.5 Business Rules

Every user is able to perform all general functions that is searching, video uploading and video streaming, but one user cannot edit another user's video.