**The Islamia University of Bahawalpur**

**Department of Computer Science**

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**SOFTWARE REQUIRNMENTS SPECIFICATION**

**(SRS DOCUMENT)**

**For**

**Video Streaming Web Application**

##### (Version 1.0)

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**“Video Streaming Web Application”**

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### Introduction

#### **Purpose**

The purpose of this document is to present the detailed description of the **Video streaming app**. It will explain the purpose and features of the system, the interfaces of the system, and constraints that it must operate.

#### **Document Conventions**

This document uses the following conventions:

* MHZ-Megahertz
* SDLC-Systems Development Life Cycle
* MB–Megabytes
* KB-Kilobytes
* HD-Hard Disk

#### **Project Scope**

* + - This is a video streaming site name “STEAMIFY”

STREAMIFY is a website designed for streaming videos where the users around the world can create account on the site that allow them to watch the videos by subscribing on per month subscription. Through STREAMIFY people can watch videos on different resolutions depends on their subscription type.

#### **Reference**

* <http://www.google.com>
* <http://www.slideshare.net>
* <http://www.youtube.com>

#### **Overview**

#### The purpose of this app is to provide on demand videos to the user by subscribing using different payment methods. The video content may have various categories for different audience.

### Overall Description

#### **Productive Perspective**

This app can offer a wide variety of videos like education, entertainment, Informational, etc. Available content includes series, playlists, music videos, documentary films, and movies that can be accessible on monthly subscription, although different subscription options will also available.

#### **Product Functions**

The main functions of the web application include user authentication, video browsing, subscription management, and payment management. Streamify allows users to view, rate, share, add to favorites, report, and comment on videos.

* 1. **OPERATING ENVIRONMENT**

Streamify can be operated by any system which has a browser and a decent internet connection. For example – Windows, Mac, Linux, Android, IOS.

##### For PC / Laptop:

* + - * Ram: 512MB
      * Space: 80GB Hard Drive
      * Core: Pentium IV MHZ or more
      * Cache: 512kb

##### For Android/IOS:

* + - * Ram: 512Mb
      * Space: 500MB
      * Cache: 200kb

#### **Functional Requirement**

* + 1. **Sign up / Sign In**
    - Description: Allows user to sign up / sign in
    - Input: E-mail Id, Password
    - Output: Allows user to register their account on sign up and allows user to access on signing in.
    - Processing: When user sign up, system create new database and register that user and when user sign in it matches the login credentials from the database and if matches grant the access.

1. **Search**
   * + Description: Allows user to search any video through entering keyword.
     + Input: Input Keyword
     + Output: Display videos related to keywords.
     + Processing: Matches the key board in the database and display videos according to that.
   1. **Share Videos**
      * Description: Allows user to share Videos with friends and family.
      * Input: Click on share button and select the person from friend list.
      * Output: Pop up appeared = “Video shared successfully”
      * Processing: When the user click share button, its end the video to the user friend account.
   2. **Navigation Section**
      * Description: When user click the navigation section then three options appeared
      * Input: Select Navigation
      * Output: Options appeared
2. Home
3. Subscription
4. Become Pro
5. **Home**

* Description: This is the user main page
* Input: Click on Home.
* Output: Search based / history based / Subscription based videos showed up.
* Processing: A list of videos based on user history, subscription and search has been displayed.

1. **Subscription**
   * + Description: It displays the subscription details of the user.
     + Input: Click on subscription
     + Output: Display all the information about user’s subscription.
     + Processing: System check when user has subscribed and type of subscription from the database and display the videos.
2. **Become Pro**

* Description: It displays all the categories of subscription and payment options.
* Input: Click on become pro
* Output: Display the users current subscription status and other subscription plans
* Processing: System check and display that whether the user has any subscription or not from the database if not it will display the subscription plans.
  1. **Library**
* Description: This section contains options
* Input: Click on Library
* Output: Display option:
  1. History
  2. Favorites
  3. **History**
     + Description: it shows all the History of all the videos that the user watched so far.
     + Input: Click on History
     + Output: Shows all the videos that user sees so far.
     + Processing: Check user data in database and display the videos that has been watched by the user.
  4. **Favorites**
     + Description: It shows all the videos that the user has added to favorite category.
* Input: Click on Favorites
* Output: Display all the videos (add to favorites)
* Processing: Check user data in the data base and display all the videos that has been added by the user in add to favorite section.

#### **NON-FUNCTIONAL REQUIREMENTS**

* 1. **Performance Requirements**
* The user must have a device which is at least to play a 144p resolution video.
* The user must have at least 500kbps of net connection in order to play the video without buffering.
  1. **Safety Requirements**

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a server crash, there cover method restores a past copy of the data base that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed-up log, up to the time of failure. And in the meanwhile, the server switch to the backup servers to keep the site working.

* 1. **Security Requirements**

Security systems need database storage just like many other applications. However, the special requirements of the security market mean that owner must choose their database partner carefully. All the Private data uploaded by the user is absolutely confidential to the other users. User can also report for if the find any suspicious activity in the <name>, so the security department can take care of that.

* 1. **Software Quality Attributes**
     + AVAILABILITY: The site is available for the users 24x7.
     + MAINTAINABILITY: The developers and a team of software engineers work on the maintenance and the updates of the site.
     + USABILITY: The site can be used anywhere if the connectivity to the internet and a device.

#### **Project Management**

* 1. **Development Process**

The web application will be developed using an Agile development process, with regular sprints and reviews.

* 1. **Project Deliverables**

The project deliverables will include the web application, documentation, and testing reports

* 1. **Risks**

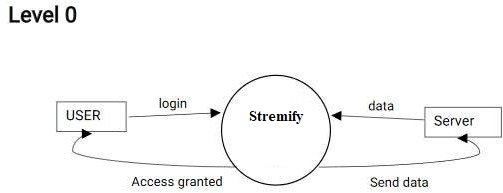
The risks associated with the development of the web application will be identified and managed throughout the development process.

#### **DESIGN Phase:**

Design phase deals with transforming the requirements, as described in the SRS document into a form that can be used while programming. In design phase of SDLC based on requirement captured in SRS.

#### **DFD (Dataflow Diagram)**

#### A data flow diagram (DFD) maps out the flow of information for any processor system.



**Level 1**

