Software Requirements Specification

Movie Streaming Application (Chorki)

Md. Khalid Mahmud

EMPLOPYEE ID: 11280

Software Engineer, BJIT

Revision History

Doc.	Date	Author	Reviewer	Description of Revision
1.0	29/10/21	Khalid Mahmud	-	

Contents

1.   Introduction

This section gives a scope description and overview of everything included in this SRS document.   Also, the purpose for this document is described and a list of abbreviations and definitions is provided**.**

1.1   Purpose

The purpose of this document is to give in depth details of the requirements for the "Movie Streaming App – Chorki' software. It'll describe all the features, interactions with users and admin.

1.2   Scope

The "Movie Streaming App – Chorki" is an web application where user can stream movie by just registering and buying subscription package.

Admin will upload movie, movie details and other related information. User can see reflection in his side. Basically, This is 2 Application. One is for user and another one is for admin. User can stream movie directly etc.

Since, it's a movie streaming app. So, good network connection is mandatory. All information are stored in database.

1.3   Definitions, Acronyms, and Abbreviations

Term/Acronym	Definition
User	Someone who interacts with the mobile phone application.
Admin/Administrator	System administrator who is given specific permission for managing and controlling the system.
Web-portal	A web application which shows movie for users and admin.
Stakeholder	Any person who has interaction with the system who is not a developer.
DESC	Description
RAT	Rational
DEP	Dependency
API	Application Programming Interface

2.   Overall Description

All the features are divided into two section. One is for user and another one is for admin.

Dependencies are also mentioned with each feature.

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it. It will also describe the entire feature from this application. At last, the constraints and assumptions for the system will be presented.

2.1   Technical platform

Since, it's an web application. So, we have to build frontend to interact with user and also have to develop backend to process data from firebase.

For front end, we've used React JS and and Raw CSS. And for backend, we've used Laravel also for database, we've used Mysql database.

3.   Functional Requirements

This section includes the requirements that specify all the fundamental actions of the software system.

3.1   Overview

Here showing all the main feature and sub feature from this application.

Serial No	Main Features	Description
1	Chatting feature	User can chat with admin in real-time.
2	Search functionality	Search specific movie from database.
3	Watch Movie	User can stream movie directly.
4	Authentication	Login, register, forgot password, otp etc.
5	Comment	User can comment on any specific movie
6	Like/Dislike	User can like/dislike other people's comment
7	Report	User can report any comment.
8	Chart	Admin can view 5 types of chart. (Bar Chart, Line Chart, Scatter Chart, Pie Chart, Area Chart)
9	Movie category	Movie category based on movie genres. It is related with multiple classes [CRUD],other functionality
10	Watch Later	User can mark any movie as watch later and later he can watch.
11	Payment System Integration	User can buy monthly/half-yearly/yearly subscription through his/her bkash account.
12	Update Profile	User can update/edit his profile.
13	OTP	Only password and email is not enough. User has to pass the otp test to login.
14	Online/Offline	Admin can see which user is online and which user is offline.

3.1.1. Category wise Movie

After successfully login, user can see home page. In home page, all movie will be displayed category wise.

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-1	Fetching all movie under a category	Get All movie by genres	-	-
FR-2	Manage all data from frontend (React-JS)	Handle all exception from backend an frontend	-	-

3.1.2. Search functionality

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-3	Search any movie from database.	Fetch all movie from database.	-	-
FR-4	Manage all jobs and showing in frontend	Handle exception and showing proper message	-	-
FR-5	User can search using character by character			

| FR-6 | Showing Pagination for big search list | Implement pagination | - | - |

3.1.3   All Movie / TV Series

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-7	Showing tv shows in tv shows section.	-	-	-
FR-8	Showing movies in movies section.	-	-	-
FR-9	Showing all latest movie/tv shows in home page.	-	-	-

3.1.4   Authentications

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-10	Login with credentials	Check credentials with validation, create token	User must verify and valid	-

FR-11	Register with data	Validation, handle exception	User must verify and valid	-
FR-12	Forgot password	Create token and send mail to email for reset password link	User must verify and valid	-
FR-13	OTP	After successfully login, user has to pass otp test. This is google level security.	User must provide his otp number	-

3.1.5   Movie Details

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-14	User can click on any movie , it'll redirect him to movie details page.	-	-	-
FR-15	User can comment on any specific movie	-	-	-
FR-16	User can like /dislike on other people's comment.	-	-	-

FR-17	User can report other people's comment.	-	Waiting for admin approval.	-

3.1.6   Profile Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-18	User can change his/her password, user name etc.	Validate, proper message, handle exception	-	-
FR-19	User can buy subscription package through bkash.	Validation, handle exception, submit form, handle from backend	-	-
FR-20	User can cancel his/her subscription.	Validation, handle exception, submit form, handle from backend	-	-
FR-21	User can directly mail to chorki authority for any issues	-	-	-
FR-22	User can manage his devices from this section	Validation, handle exception, submit form, handle from backend	-	-

3.1.7   Movie Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-23	Admin can add movie by it's category	Validate, proper message, handle exception	-	-
FR-24	Admin can View movie list by category	-	-	-
FR-25	Admin can update any movie Information.	Validate, proper message, handle exception	-	-
FR-26	Admin can delete any movie	proper message, handle exception	-	-

3.1.8   Chart Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-27	Admin can add chart data.	With validation and handle exception	-	-
FR-28	Admin can view chart data. 5 types of chart is present in this application.	Handle all exception to show data	-	-

3.1.9   User Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-29	Showing all user information.	Handle all exception to show data	-	-
FR-32	Delete/Ban any user from this system	Handle message and exception	-	-

3.1.10 Chatting with User

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-33	Admin can view all chat list which user message him.	Handle all exception to show data	-	-
FR-34	Whoever text most recent, that user name should be on the top of chat list just like messenger application.	V Handle all exception to show data	-	-
FR-35	Admin can view from chat list that which user is online/offline.	Handle all exception to show data	-	-
FR-36	Admin can click on any user icon. Then all the conversation will be loaded.	Handle all exception to show data	-	-

FR-37	In chat list, all user's profile picture, active status and last message will be shown to admin.	Handle all exception to show data	-	-
FR-38	Admin can search any particular user from chat list.	Handle all exception to show data		-
FR-39	Admin can chat with user in real-time.			

3.1.11 Footer Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-40	User can download chorki app from goolge play store, apple store.	-	-	-
FR-41	User can redirect to chorki's facebook, instragram, twitter, youtube's page .	-	-	-
FR-42	User can go to about us, terms of service, privacy policy, contact us and faq section	-	-	-
FR-43	User can navigate to home page from any other pages by just clicking on chorki's logo on footer.	-	-	-

3.1.12 User Chat Management

Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-44	User can chat with admin anytime in realtime	Handle all exception to show errors	-	-

4.   User Interface

UI No.	UI Name	Related Function Req ID	Description	Test case Identifier
1	Home Page	FR-1,FR-2,FR-3	Displaying all movie list by category, trending movie etc.	N/A
2	Chatting with Admin	FR-44	User chat with admin	N/A
3	Authentication	Fr-10,FR-11,FR-12	Login, register, reset	N/A

5.   Non-Functional Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-45	Email should be sent after action triggered	Email sent by Queue & jobs	N/A	N/A
FR-46	The processing of each request should be done within 2 seconds	Max time 2 sec	N/A	N/A

5.1   Performance Requirements

The requirements in this section provide a detailed specification of the user interaction with the software and measurements placed on the system performance.

5.1.1   Usage of the search feature

TITLE: search feature

DESC: The search feature should be prominent and easy to find for the job.

RAT: In order to for a user to find the search, feature easily.

5.1.2 Security

TAG: Admin Login Account Security

PURPOSE: Security of accounts.

SCALE: If an admin tries to log in to the web portal with a non-existing account then the admin should not be logged in.

5.2   Safety Requirements

This portion has not covered yet. It will implement in future.

5.3   Security Requirements

This portion has not covered yet. It will implement in future.

6.   Design Constraints

This section includes the design constraints on the software caused by the hardware.

- There are some constraints in hardware part

- In frontend design part, this website is not mobile friendly. Due to short time cannot complete responsiveness for this application.

Software Quality Attributes

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-47	All validation works properly	Validated perfectly	N/A	N/A
FR-48	Secured featured	Maintain security, protected route, manage authorization	N/A	N/A

FR-50	Performance measure	Overall performance of software	N/A	N/A

7.   User Interface

UI No.	UI Name	Related Info No.	Description	Notes	Test case Identifier
1	Home Page	FR-9	User Home page or main page	N/A	N/A
2	Browse Job Page	FR-4,FR-5,FR-6	All jobs with search functionality	N/A	N/A
3	Authentication	FR-10,FR-11,FR-12,FR-13	Login, register, forgot password,OTP	N/A	N/A

8.   Other Requirements

REQUIREMNT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
FR-51	Database Design	Database should be more relational with other class/model	N/A	N/A
FR-52	Budget	For unit testing or deployment, need more money	Unit testing tools, server	N/A