Software Requirements Specifications

A software requirement specification defines how an application will interact with system hardware, other programs and human users in a wide variety of real-world situations. Parameters such as operating speed, response time, availability, portability, maintainability, footprint, security and speed of recovery from adverse events are evaluated. This chapter discusses about all of the functions of a proposed system and the constraints under which it must operate. The document contains brief description of the product, external interface requirements, software product features, software system attributes and database requirements.

1 Introduction

1.1 Product Overview

MovieBuzz is aimed towards providing a simple solution for forecasting movie success in terms of financial success and viewer opinion. The product will be a system proposing outputs such as will the movie be flop, semi-hit, super-hit or block-buster, movie rank, box office revenue prediction ,region where the movie will do good business, suggestion for the movies release month. with regression based modeling. It collects data from sites such as wikipedia , boxofficeindia.com , koimoi.com etc.The system should be user-friendly and reliable for the above purpose.

2 Specific Requirements

2.1 External Interface Requirements

The external interface requirements contains user interfaces and communication protocols.

2.1.1 User Interfaces

2.1.1.1 Admin login page containing upload module

The upload module will allow the system administrator to upload new data to the existing database. It will be useful for the administrator to upload data collected from various sites that will be preprocessed and uploaded with current data.The system administrator will be given a separate login page where he/she

can login and can upload the data from excel sheet to the database. A normal user can be able to explore the website without any login or registration.

2.1.1.2 User web page to forecast below mentioned outputs

- Will the movie be flop, semi-hit, super-hit or block-buster by considering various attributes like movie name,actor name,actress name,director name and genre collected from various websites.
- Movies box office revenue prediction..
- Region where the movie will do good business by considering its revenue generation in different parts of the country.
- Suggestion for the movies release month
- Rating of the movie. .

2.1.1.3 Output Screen

The webpage will contain textboxes for inputs like movie name,director name,actor name,actress name and drop-down list for genre and release month.After clicking on submit, all the above mentioned outputs will be displayed to user.The output window will display all the inputs entered by user along with parameter contribution of each input. The user can reset the form, if required, by clicking on the reset form button.

2.1.2 Communications Protocols

Our project will require HTTP communication protocol as it is web related. It is an request-response client-server protocol. An http client sends a request message to an http server. The server, in turn, returns a response message.

2.2 Software Product Features

2.2.1 Administrator login

A normal user can be able to explore the website without any login or registration. The system administrator will be given a separate login page where he/she can login and can upload the data from excel sheet to the database.

2.2.2 Web page for admin to upload data to database

This component will allow the system administrator to upload new data to the existing database.This component will be useful for the administrator to upload data collected from various sites that will be preprocessed and uploaded with current data.

2.2.3 Entry of inputs and selection of outputs from user

The users are requested to enter the details like movie name,actor name,actress name,director name in textboxes. He/She will be able to select the genre and release month from drop-down list. After clicking on submit button ,the user will be able to see the forecasting results as specified follows:

2.2.3.1 Flop, Semi-hit, Super-hit and Block-buster forecast

This feature will consider various attributes and information pertaining to movie details,genre,release month,actor,actress and directors details collected from various websites, that will be useful to determine movie's performance that whether it will be flop, semi-hit, super-hit or block-buster.

2.2.3.2 Movie box office revenue prediction

This feature will help in deciding the estimated revenue that will be generated by the movie at box-office. This will provide estimate in terms of percentage revenue contribution of the movie to boxoffice.

2.2.3.3 Region where the movie will do good business

This feature will have information regarding the movies region wise performance by considering its revenue generation in different parts of the country.This will help in predicting the region where the movie will do good business.

2.2.3.4 Movie's release month

This feature will provide the suggestion for the movies release month by considering attributes such as movie details,genre,release month, actor,actress and directors details collected from various websites.

2.2.3.5 Movie Rating

This feature will be useful to determine movie's rating by considering various attributes such as movie details,genre,release month, actor,actress and directors details collected from various websites.

2.2.4 Display the result

After clicking on submit button,the result will be displayed to user in the output window.The output window will display all the inputs entered by user along with parameter contribution of each input.

2.3 Software System Attributes

2.3.1 Availability

The database should be backed up regularly to prevent loss of data.The system should be available to the user 24x7.

2.3.2 Maintainability

Filmfare award winning actors, actresses and directors were added to the database. New movie name can be be added to the system.

2.3.3 Performance

The system should be checked for bugs and errors at regular intervals in order to increase accuracy and performance.

2.4 Database Requirements

The database will comprises of information about all the aforementioned attributes needed to be created in order to carry out further modelling or processing. Excel will be used to handle the large number of raw and unstructured data records. That data will be processed and structured and then fed to the SQL database tool.The information available on the excel will be aggregated into a relational database and searching for information will be done using SQL queries. The system will be integrated with database using .NET framework data provider for SQL server.