FlixBook
Software Requirements Specification
COP 4331C Fall 2014

Modification History:

Version	Date	Who	Comment
v1.0	9-15-2014	M. Pittman	Initial Version

Team Name: Group 16

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SECTION 1: Introduction

1.1 Software to be Produced:

The software to be produced is a website dedicated to helping users find information about their favorite movies and to recommend new and exciting movies that the user may like based on user-specified data. This website will also give the user the opportunity to create libraries of saved movies for future reference and give reminders to the user when selected movies are coming out in theatres or appearing on television.

1.2 Reference Documents:
- [Concept of Operations](#)
- [Project Management Plan](#)
- [Test Plan](#)

1.3 Applicable Standards:
- User must have working web browser
- User must have access to the internet

1.4 Definitions, Acronyms, and Abbreviations:
- Query - To request information from a database.
- Web Application - Any application software that runs in a web browser and relies on the web browser to render the application.
- *HTML* - Hypertext Markup Language

SECTION 2: Product Overview

2.1 Assumptions:

This specific piece of software will not be relying on too many developer assumptions. The only assumptions that will be made are that the user has access to the internet when browsing the website and that they are using a common web browser such as Chrome, Firefox, Safari, Internet Explorer, etc.
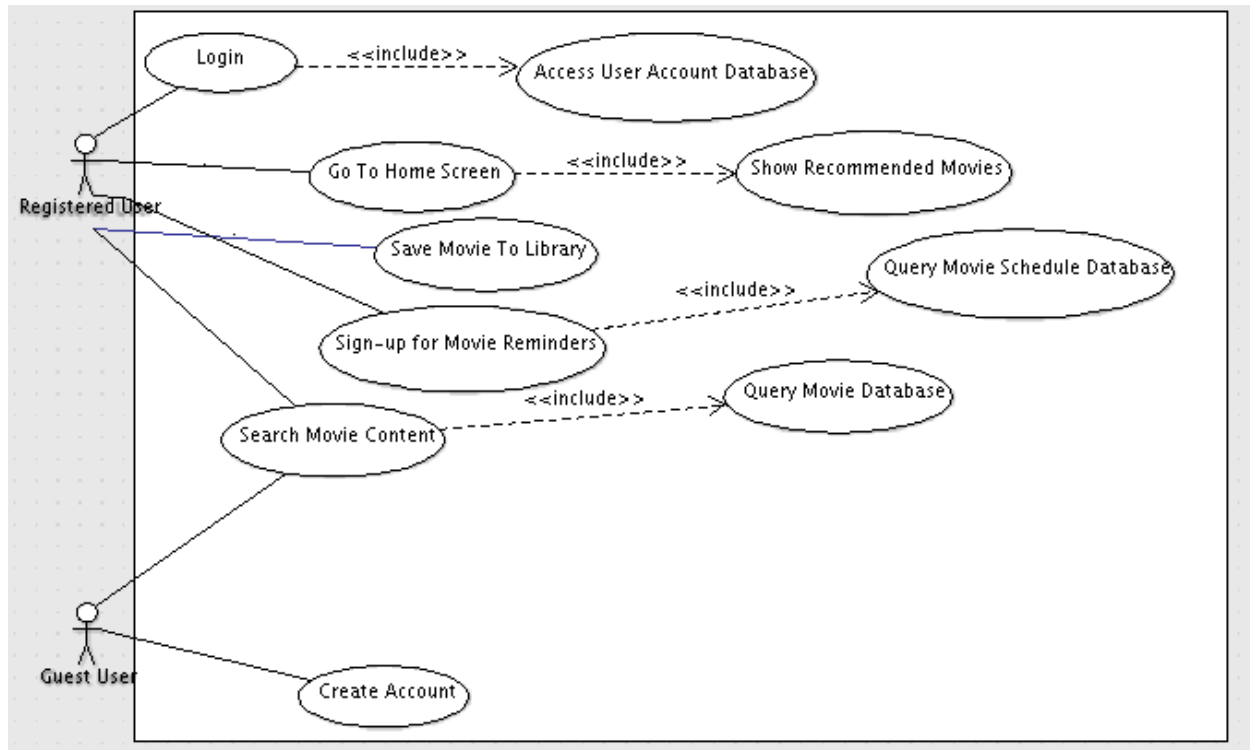
2.2 Stakeholders:
- The client (TA) who has requested that we develop this software.
- The developers because they need the product to work as expected in order to receive full payment (or a good grade in this case).
- The users who are expecting to use this product once it is finished.
- Any investors (Teacher), other the client, who are hoping to make a profit from the finished product.

2.3 Event Table:

Event Name	External Stimuli	External Responses	Internal Data and State
Create Account	User clicks 'Create Account' button	User account database is accessed	New 'Account' entity is created in user account database
Login	User clicks 'Login' button	User account database is accessed	Specified 'Account' entity information in user account database is used to build user-interface
Logout	User clicks 'Logout' button	User account database is accessed	User account database is updated and user is brought back to guest user privileges
Search Movie	User clicks 'Search Movie' button	Movie database is accessed	Movie database is queried and the

			information is returned to the client to be shown to the user
Create Library	User clicks adds the first movie to library	User account database is accessed	'Library' entity is created in user account database
Save Movie to Library	User clicks 'Save Movie to Library' button	Movie database is accessed	Movie information is stored in user account database
Sign up for Reminders	User clicks 'Sign up for Reminders' button	User account database is accessed	Reminder information is stored in database

2.4 Use Case Diagram:

2.5 Use Case Description:

- **Actors:** Registered User (user that has created an account) and Guest User (user who has no account).
- **Login:** This event will allow the user to login to his/her user account.
- **Go To Home Screen:** This event will return the user to the web application home screen.
- **Save Movie To Library:** This event will allow the user to save a specified movie into a private library that can be accessed in the future through the same account in which it was created.
- **Sign-up for Movie Reminders:** This event will give the user the ability to select which movies (possibly none) he/she would like to emailed about when they appear on television or are released into theatres.
- **Search Movie Content:** This event will allow the user to search the movie database for information about movies related to specific categories such as actors, genre, release date, etc.
- **Create Account:** This event will give unregistered users the ability to create a user account in order to access all of the features of the web application.

SECTION 3: Specific Requirements

No: 0001
Statement: Every user must have the ability to create a private account.
Source: Team
Dependency: None
Conflicts: None
Supporting Materials: None
Evaluation Method: The requirement is satisfied if everyone guest user can create an account.

Revision History: Michael Pittman, 9-17-2014, Initial Creation

No: 0002
Statement: The user must have the ability to search movies based on specific categories.
Source: Team
Dependency: None
Conflicts: None
Supporting Materials: None
Evaluation Method: The requirement is met if the user can search movies by specifying actor, tit release date, etc.
Revision History: Michael Pittman, 9-17-2014, Initial Creation

No: 0003
Statement: Registered users must have the ability to save movies to a private library.
Source: Team
Dependency: None
Conflicts: None
Supporting Materials: None
Evaluation Method: The requirement is met if the user can save any movie to personal library w can be accessed in the future.
Revision History: Michael Pittman, 9-17-2014, Initial Creation

No: 0004
Statement: The user must have the ability to request the web application to send email reminders when specified movies are showing on television or are released into theatres.
Source: Team
Dependency: None
Conflicts: None
Supporting Materials: None
Evaluation Method: This requirement is met if the user does indeed have the ability to request reminders.
Revision History: Michael Pittman, 9-17-2014, Initial Creation

No: 0005
Statement: The user must have the ability to be shown a list of recommended movies based on the movies that have been saved into the user's private movie library.
Source: Team
Dependency: None
Conflicts: None
Supporting Materials: None
Evaluation Method: This requirement is met if the user can see a list of recommended movies on the homepage of his/her user account.
Revision History: Michael Pittman, 9-17-2014, Initial Creation

3.1 Functional Requirements:

- Users must have the ability to create accounts and have the ability to login and logout easily.
- Users must have the ability to search movies based on title, actors, year, or genre.
- Users must have the ability to save movies to a library that can only be accessed through the user account on which it was created.
- The web application must have the ability to recommend movies to the users.
- The web application must have the ability to alert/remind users of when specified movies are coming on television or being released into theatres.

3.2 Interface Requirements:

- The interface must have a guest user home page which will allow the user to login or create an account.
- Once a user logs in they should be brought to a registered user home page that will show them recommended movies based on the movies the user's library.
- The registered user home page should also have a link to the user's library and account settings.
- A screen for searching for movies must be available to both guest users and to registered users. The input for the search should be a string describing an actor, movie title, or movie genre.
- A button to return the user to the home page should be available at any time when navigating the web application.

3.3 Physical Environment Requirements:

- The website will run only in a web browser (having a web browser is the only requirement for a user to be able to use the website).
- The user accounts will be stored in a database located on a remote server.

3.4 Users and Human Factors Requirements:

- There will be two types of users: Registered user and Guest User
- There must be a help section that will explain how to use the website.
- In for users to use the website they must have access to the internet and must have access to a web browser.

3.5 Documentation Requirements:

- The only documentation that will be provided for the users will be a help section located on the website. This help section will assume that the user has a basic knowledge of browsing websites, but will not assume that they have used our website before.

3.6 Data Requirements:
- A database created by the developers will be used to store user account information, movies saved by users into private libraries, and reminders that users have signed up for.
- A third party database will be used to access information about specific movies.
- A third party database will be used to access information about when movies will be airing on television.
- An algorithm to help recommend movies for users based on the movies that reside in their private libraries will be developed by the developers.

3.7 Resource Requirements:
- A development team of 6 programmers will be used to create the database, user interface, and overall web application.
- Needed funding, if anything, will be provided by the developers.
- A server will be needed to hold the database used for user accounts.
- Html, CSS, and Javascript will be the primary languages used to develop the web application.

3.8 Security Requirements:
- User accounts and the information associated with those accounts must be accessible only to those who know the accounts username and password.
- Users must have the ability to change their password.
- Users must have the ability to request a forgotten password.
- Users have the ability to delete their account.

3.9 Quality Assurance Requirements:
- All databases should be accessible at any time of the day.
- If any servers should go down, the development team must have them back up and running within 24 hours.
- All movie searches must return results within 1 minute of the 'Search' button being clicked.

SECTION 4: Supporting Material

      No Suaterials will be used.