Software Project(NETFLIX)

1.Project analysis

Introduction

The purpose of this document is to specify the functional and non-functional requirements for the Netflix streaming platform. The document outlines the features that the platform should have, the constraints it must operate under, and the technical specifications that it should adhere to.

Scope

The Netflix platform is a video streaming service that provides subscribers with access to a wide variety of movies and TV shows. The platform is available on multiple devices, including desktop computers, laptops, mobile phones, tablets, and smart TVs. The scope of this document includes the software requirements for the platform's web and mobile applications.

Functional Requirements

1.User Account Management

- The platform allows users to create a new account with their email address or social media accounts such as Facebook or Google.

2.Content Catalog Management

- The platform provides a catalog of movies and TV shows available for streaming.

3. Video Streaming and Playback

- The platform allows users to stream movies and TV shows in high quality.

4. Recommendations

- The platform provides personalized recommendations for movies and TV shows based on user viewing history, ratings, and watchlist.

Non-functional Requirements

1. Performance

- The platform is able to handle a high volume of simultaneous streams without degrading video quality or causing buffering.

2. Security

- The platform uses encryption to protect user account information and payment details.
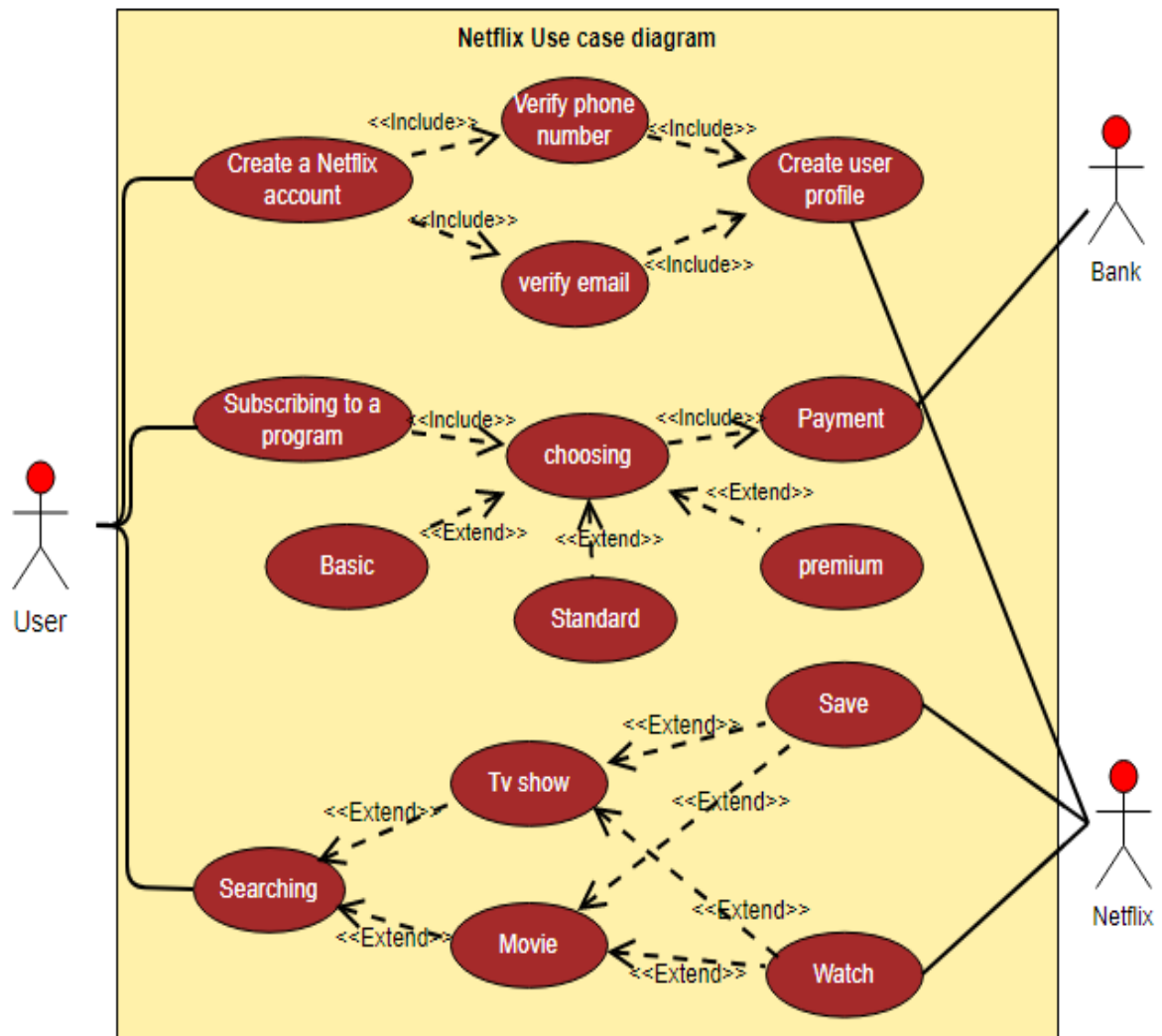
3. Availability

- The platform is available 24/7 to subscribers, except during scheduled maintenance periods.
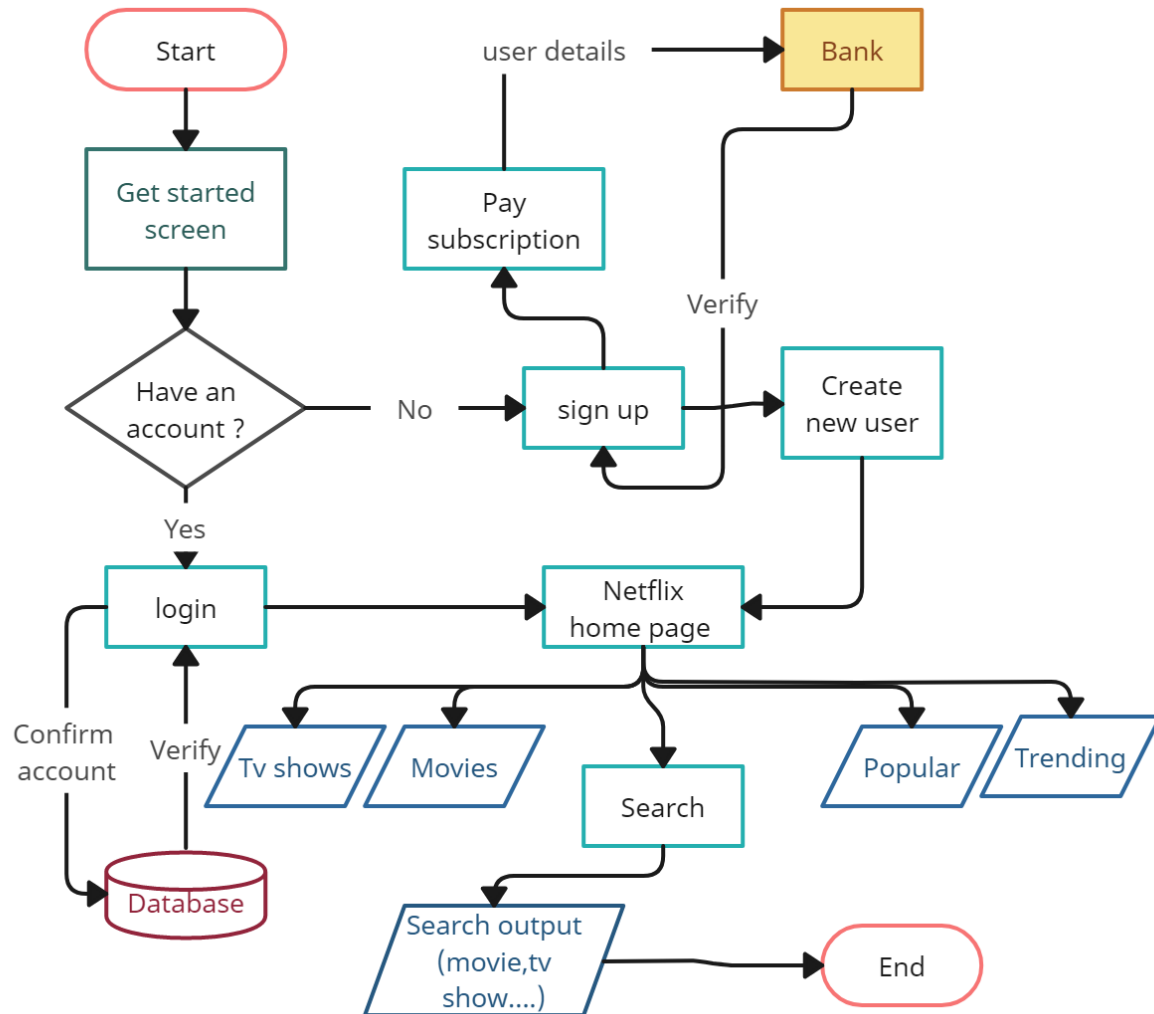
Conclusion

This Software Requirements Specification document outlines the functional and non-functional requirements for the Netflix streaming platform. The platform's features include user account management, content catalog management, video streaming and playback, and recommendations. The non-functional requirements include performance, security, and availability.

2-Use Case Diagram

Netflix Use case diagram

3.User Flow Diagram

4.Entity Relationship Diagram

5.Test cases

	Pass?	Test Case ID	Test Title	Test Case Description	Expected Results	Actual Results
1	✓	⊟ s1	Signup into Netflix	User enters valid email and valid password then chooses suitable plan	User will have an account but no subscription to a plan	User will have an account but no subscription to a plan
2	✗	s2	Signup into Netflix	User enters invalid email or invalid password	User will have an account but no subscription to a plan	Error messagewill appear and invalid password is deleted automatically
3	✓	d1	Downloading movies/series' episodes on Netflix.	User clicks on the download button, with stable internet connection AND enough space for the movies/series to be downloaded.	Downloading process is completed successfully.	Downloading process is completed successfully.
4	✗	d2	Downloading movies/series' episodes on Netflix.	User clicks on the download button, with unstable internet connection or not enough space for the movies/series to be downloaded.	Downloading process is completed successfully.	Download failed message appears.
5	✓	se1	Search for movie/series in Netflix	User enters an existing name of a movie/series	User will see a page with movies/series with that name.	User will see a page with movies/series with that name.
6	✗	se2	Search for movie/series in Netflix	User enters a nonexistent name of a movie/series	User will see a page with movies/series with that name	Error message and user is sent back to search result screen