

Practical No. 2

Aim: Write about functional and non-functional requirements, identify functional and non-functional requirements for your problem statement.

Functional Requirements

User Authentication

- User should be able to login.
- User should be able to register.
- User should be able to reset password.
- User should be able to recover their account.
- User should be able to edit their profile data.
- User should be able to deactivate/reactivate their account.
- User should be able to delete their account.

User Profiles

- User should be able to create and manage multiple user profiles.
- User should be able to protect profiles with password.

Movie Database

- User should be able to search for movies.
- User should be able to filter movies by genre, release date, rating, etc.
- User should be able to view movie details (synopsis, cast, crew, etc.).
- User should be able to view movie trailers.
- User should be able to view movie reviews and ratings.
- User should be able to add movies to their watchlist.
- User should be able to rate and review movies.
- User should be able to share movies on social media.

Video Streaming

- User should be able to stream movies in different resolutions (SD, HD, 4K).
- User should be able to pause, play, rewind, and fast-forward movies.
- User should be able to change audio and subtitle settings.
- User should be able to download movies for offline viewing.

Subscription-Based Payment Gateway

- User should be able to make payment using UPI.
- User should be able to cancel their subscription.
- User should be able to renew their subscription.
- User should be able to upgrade their subscription.

Non-Functional Requirements

Performance

- Application should be performant.
- Load time should be minimum, not more than 10 seconds.

Minimum Downtime

- Downtime of server should be minimum.
- There should be a backup server to pick up traffic if the primary server goes down.

Maintainability

- Server should be able to go into maintenance without compromising service.
- Backup servers should handle load when the primary server is in maintenance.

Data Integrity

- There should be audit logs for all changes.
- There should be backup of all data.