IT-304: Software Engineering

Lab Assignment: 3

Group number - 8

Part 2: Product Backlog

1. User Story: User, Content provider - Create Account
Front of the Card:

- **As a** user/content provider,
- **I want to** register myself on the application,
- **so that** I can create an account.

Back of the Card (Acceptance Criteria):

1. The user/content provider should be able to create an account after providing valid credentials.
2. The system should verify the credentials before account creation.

2. User Story: User, Content provider - Login

Front of the Card:

- **As a** user/content provider,
- **I want to** log in to the platform,
- **So that** I can access/upload content.

Back of the Card (Acceptance Criteria):

1. The system should authenticate users using valid credentials.
2. Upon successful login, users are redirected to the homepage.

3. User Story: User - Manage Subscription

Front of the Card:

- **As a** user,
- **I want to** manage my subscription,
- **So that** I can choose or modify my subscription plan.

Back of the Card (Acceptance Criteria):

1. Users can view available OTT platforms and subscription plan.
2. The system should allow users to select, modify, or cancel their subscriptions.

4. User Story: User - Search Content

Front of the Card:

- **As a** user,
- **I want to** search for content,
- **So that** I can quickly find the shows or movies I am interested in.

Back of the Card (Acceptance Criteria):

1. Users can search for content using keywords.
2. Search results should be accurate and relevant to the user's query.

5. User Story: User - Manage Profile

Front of the Card:

- **As a** user,
- **I want to** manage my personal details and settings,
- **So that** I can update my information and customise my preferences.

Back of the Card (Acceptance Criteria):

1. Users can update personal information such as name, email, and password.
2. The system should save the updated information and reflect changes immediately.

6. User Story: Content Provider - Content Management

Front of the Card:

- **As a** content provider,
- **I want to** upload, update, and delete content,
- **So that** I can manage the media available on the platform.

Back of the Card (Acceptance Criteria):

1. Content providers can upload new videos and related metadata.
2. The system should allow content providers to update or delete existing content.
3. Changes made to content should be reflected immediately on the platform.

7. User Story: Content Provider, Admin - Analytics Dashboard

Front of the Card:

- **As a** content provider/admin
- **I want to** view audience insights and content performance,
- **So that** I can make data-driven decisions about content.

Back of the Card (Acceptance Criteria):

1. The system provides data on audience demographics (age, location, etc).

2. Content providers can view metrics such as view counts, watch time, and ratings.
3. Revenue generated from content and subscriptions should be easily accessible.

8. User Story: External System - Payment Gateway Integration

Front of the Card:

- **As an** external system,
- **I want to** integrate with the payment gateway,
- **So that** users can securely process payments on the platform.

Back of the Card (Acceptance Criteria):

1. The payment gateway securely processes transactions and handles errors gracefully.
2. The system ensures that user payment details are encrypted and stored securely.
3. The platform confirms successful transactions and updates the user's subscription status.

9. User Story: User - Content Recommendations

Front of the Card:

- **As a** user,
- **I want to** receive personalised content recommendations.
- **So that** I can discover new shows and movies based on my viewing habits.

Back of the Card (Acceptance Criteria):

1. The system should analyse user viewing history to suggest relevant content.
2. Recommendations should be updated regularly based on new content and user activity.
3. Users should have the option to provide feedback on recommendations to improve accuracy.

10. User Story: User - Watchlist

Front of the Card:

- **As a** user,
- **I want to** add content to my watchlist shows/movies,
- **So that** I can easily access them later for viewing.

Back of the Card (Acceptance Criteria):

1. The user can add or remove content from their watchlist.
2. The system saves the watchlist and ensures it is available across all user devices.

11. User Story: User - Content Streaming

Front of the Card:

- **As a** user,
- **I want to** stream content smoothly,
- **So that** I can enjoy uninterrupted viewing experiences.

Back of the Card (Acceptance Criteria):

1. The system ensures high-quality video streaming based on the user's internet speed.
2. Content streams without buffering for most users with stable internet connections.

3. The user can pause, rewind, or fast-forward through content during streaming.

12. User Story: User - Parental Control

Front of the Card:

- **As a** user,
- **I want to** enable parental controls,
- **So that** I can restrict content based on age ratings for my children.

Back of the Card (Acceptance Criteria):

1. Users can set up parental control profiles with age restrictions.
2. The system blocks content that exceeds the set age rating on the controlled profile.
3. Parental controls are password-protected to prevent unauthorised changes.

13. User Story: Content Provider - Special Discounts Management

Front of the Card:

- **As a** content provider,
- **I want to** create and manage special discounts,
- **So that** I can offer promotional deals to attract more subscribers.

Back of the Card (Acceptance Criteria):

1. The content provider can set up discount campaigns for specific content or subscription plans.

2. The system applies discounts during checkout, ensuring the user sees the reduced price.

14. User Story: User - Filter Content

Front of the Card:

- **As a** user,
- **I want to** filter content,
- **So that** I can easily discover shows or movies that match my preferences.

Back of the Card (Acceptance Criteria):

1. Users can apply filters based on genre, release year, ratings, language, and content duration.
2. Multiple filters can be selected simultaneously to refine search results.
3. The system updates and displays filtered results in real-time as filters are applied or removed.
4. Filter options are easily accessible and user-friendly across all devices.
5. Users have the option to clear all filters with a single action.
6. The platform remembers the user's last used filters during the same session for convenience

15. User Story: Admin - Content Moderation

Front of the Card:

- **As an** Admin,
- **I want to** moderate content on the platform,
- **So that** I can ensure compliance with content guidelines and remove inappropriate material.

Back of the Card (Acceptance Criteria):

1. Admins can flag and review content that violates guidelines.
2. The system allows for temporary removal or permanent deletion of flagged content.

16. User Story: User - Multi-Device Synchronisation

Front of the Card:

- **As a** user,
- **I want to** synchronise my viewing progress across multiple devices,
- **So that** I can continue watching content seamlessly on any device.

Back of the Card (Acceptance Criteria):

1. The system tracks the user's viewing progress and syncs it across all logged-in devices.
2. Users can start watching on one device and pick up where they left off on another.
3. Syncing includes not just progress, but also settings and watchlists.

17. User Story: User - Content Rating and Reviews

Front of the Card:

- **As a** user,
- **I want to** rate and review content,
- **So that** I can share my opinions and help others make informed choices.

Back of the Card (Acceptance Criteria):

1. The user can rate content with a star system or similar rating metric.
2. Reviews can be submitted with written feedback, which is moderated before being displayed.
3. Ratings and reviews influence recommendations and top content listings on the platform.

18. User Story: User - Notifications

Front of the Card:

- **As a** user,
- **I want to** receive notifications about new content and important updates,
- **So that** I stay informed about the latest releases and any changes affecting my account.

Back of the Card (Acceptance Criteria):

1. Users receive notifications for newly released content based on their preferences.
2. The system sends alerts for important account-related activities, such as payment issues or security warnings.

19. User Story: User - Multi-Language Subtitles/Audio

Front of the Card:

- **As a** user,
- **I want to** access subtitles/Audio in multiple languages,
- **So that** I can better understand content in my preferred language.

Back of the Card (Acceptance Criteria):

1. The system provides subtitle/Audio options in various languages.
2. Users can switch between subtitle/Audio languages during playback.
3. Subtitles/Audio should sync accurately with the audio and video.
4. The user interface for selecting subtitles/Audio is intuitive and accessible across all devices.
5. The system remembers the user's last selected subtitle/Audio language for future content.

20. User Story: User - View Upcoming Movies/Shows
Front of the Card:

- **As a** user,
- **I want to** view a list of upcoming movies and shows,
- **so that** I can plan what to watch next.

Back of the Card (Acceptance Criteria):

1. The user should be able to access a section of the platform dedicated to upcoming movies/shows.
2. The list should display titles, release dates, Trailers, and brief descriptions.
3. The system should allow users to sort the list by release date, genre, or popularity.

21. User Story: User - Social Sharing of Favorite Shows

Front of the Card:

- **As a** user,

- **I want to** share my favourite shows and movies with friends on social media,
- **so that** I can recommend content to others and see what they're watching.

Back of the Card (Acceptance Criteria):

1. 1The platform should allow users to share content directly to social media platforms.
2. Shared content should include a link back to the platform for others to view.
3. Users should be able to see what their friends are watching if they're connected via social media.

22. User Story: User - Track Watch History
Front of the Card:

- **As a** user,
- **I want to** track my watch history,
- **so that** I can easily resume watching where I left off and keep a record of what I've watched.

Back of the Card (Acceptance Criteria):

1. The system should maintain a history of all watched movies and shows for each user.
2. The user should be able to view their watch history, including titles, dates watched, and progress.
3. The user should have the option to resume watching from the last watched position directly from the history list.

23. User Story: User - Delete Watch History Items
Front of the Card:

- **As a** user,
- **I want to** delete specific items from my watch history,
- **so that** I can manage and clean up my record of watched content.

Back of the Card (Acceptance Criteria):

1. The user should be able to select and delete individual entries from their watch history.
2. The system should prompt the user for confirmation before permanently removing an item.
3. Deleted items should no longer appear in the user's watch history or affect resume playback.

24. User Story: User - Browse Content by OTT Platforms

Front of the Card:

- **As a** user,
- **I want to** browse content according to different OTT platforms,
- **so that** I can easily find and access content available on my preferred streaming services.

Back of the Card (Acceptance Criteria):

1. The user should be able to filter and sort content based on the OTT platform it is available on.
2. The system should display content categories, such as movies, TV shows, and documentaries, for each OTT platform.
3. The user should be able to select an OTT platform and view a curated list of content from that platform.
4. The content details page should show which OTT platforms have the content available for streaming.

5. The user should have the option to switch between OTT platforms seamlessly without losing their current browsing context.

25. User Story: Content Provider - Schedule Content Releases

Front of the Card:

- **As a** content provider,
- **I want to** schedule content releases in advance,
- **so that** I can plan and manage content availability according to marketing and strategic goals.

Back of the Card (Acceptance Criteria):

1. The content provider should have an interface to set release dates and times for new content.
2. The content provider should receive notifications and confirmations for scheduled releases.
3. The system should automatically update content availability based on the scheduled release time.

Part 3: Develop sprints from the product backlog

Sprint 1: Account Management & Basic Platform Setup

Estimated Functional Points: 16 FP

Estimated Time: 1 week

User Stories:

1. **User Story: Create Account (User, Content provider)**
   - FP: 6
   - Allows users and content providers to register on the platform.
2. **User Story: Login (User, Content provider)**
   - FP: 6
   - Enables users and content providers to log in to the platform.
3. **User Story: Manage Profile (User,Content Provider)**
   - FP: 4
   - Users can manage their personal details and customize settings.

Sprint 2: Subscription Management & Payment Integration

Estimated Functional Points: 27 FP

Estimated Time: 2 week

User Stories:

1. **User Story: Manage Subscription (User)**
   - FP: 10
   - Users can select, modify, or cancel their subscription plans.
2. **User Story: Payment Gateway Integration (External System)**
   - FP: 10
   - Integration with a payment gateway for secure transactions.
3. **User Story: Special Discounts Management (Content Provider)**
   - FP: 3
   - Content providers can create and manage discounts for promotional purposes.
4. **User Story: Analytics Dashboard (Content Provider, Admin)**
   - FP: 4
   - Admins and content providers can view analytics on content performance.

Sprint 3: Content Management & Search

Estimated Functional Points: 28 FP

Estimated Time: 2 week

User Stories:

1. **User Story: Content Management (Content Provider)**
   - FP: 10

- ○ Allows content providers to upload, update, and delete content.
2. **User Story: Schedule Content Releases (Content Provider)**
   - ○ FP: 3
   - ○ Content providers can schedule content releases in advance.
3. **User Story: Search Content (User)**
   - ○ FP: 5
   - ○ Enables users to search for content using keywords.
4. **User Story: Browse Content by OTT Platforms (User)**
   - ○ FP: 5
   - ○ Users can browse content based on the OTT platforms.
5. **User Story: Filter Content (User)**
   - ○ FP: 5
   - ○ Users can apply filters to refine their content search.

Sprint 4: Content Interaction & Personalization

Estimated Functional Points: 29 FP

Estimated Time: 2 week

User Stories:

1. **User Story: Watchlist(User)**
   - ○ FP: 4
   - ○ Users can add content to their watchlist for later.
2. **User Story: Content Recommendations (User)**
   - ○ FP: 10
   - ○ Personalized recommendations based on user viewing history.
3. **User Story: Content Rating and Reviews (User)**
   - ○ FP: 4

- ○ Users can rate and review content, influencing recommendations.
4. **User Story: View Upcoming Movies/Shows (User)**
   - ○ FP: 7
   - ○ Users can view a list of upcoming movies and shows.
5. **User Story: Social Sharing of Favorite Shows (User)**
   - ○ FP: 4
   - ○ Allows users to share content on social media platforms.

Sprint 5: Content Streaming & Multi-Device Synchronization

Estimated Functional Points: 35 FP

Estimated Time: 3 week

User Stories:

1. **User Story: Content Streaming (User)**
   - ○ FP: 15
   - ○ Smooth content streaming with options to pause, rewind, or fast-forward.
2. **User Story: Multi-Device Synchronization (User)**
   - ○ FP: 7
   - ○ Synchronization of viewing progress across multiple devices.
3. **User Story: Multi-Language Audio/Subtitles (User)**
   - ○ FP: 8
   - ○ Provides subtitles/Audio in multiple languages with the ability to switch during playback.
4. **User Story: Track Watch History (User)**
   - ○ FP: 5

- Users can view and manage their watch history.

Sprint 6: Security, Notifications

Estimated Functional Points: 18 FP

Estimated Time: 2 week

User Stories:

1. **User Story: Parental Control (User)**
   - FP: 5
   - Enables users to set up parental controls for age-restricted content.
2. **User Story: Content Moderation (Admin)**
   - FP: 5
   - Admins can flag and review content to ensure guideline compliance.
3. **User Story: Notifications (User)**
   - FP: 5
   - Users receive notifications about new content and account-related activities.
4. **User Story: Delete Watch History Items (User)**
   - FP: 3
   - Users can delete specific items from their watch history.

Summary of Functional Points/Time:

- **Sprint 1:** 16 FP - 1 week
- **Sprint 2:** 27 FP - 2 week
- **Sprint 3:** 28 FP - 2 week
- **Sprint 4:** 29 FP - 2 week
- **Sprint 5:** 35 FP - 3 week

- **Sprint 6:** 18 FP - 2 week

Total Functional Points: 153 FP

Total Time: 12 week