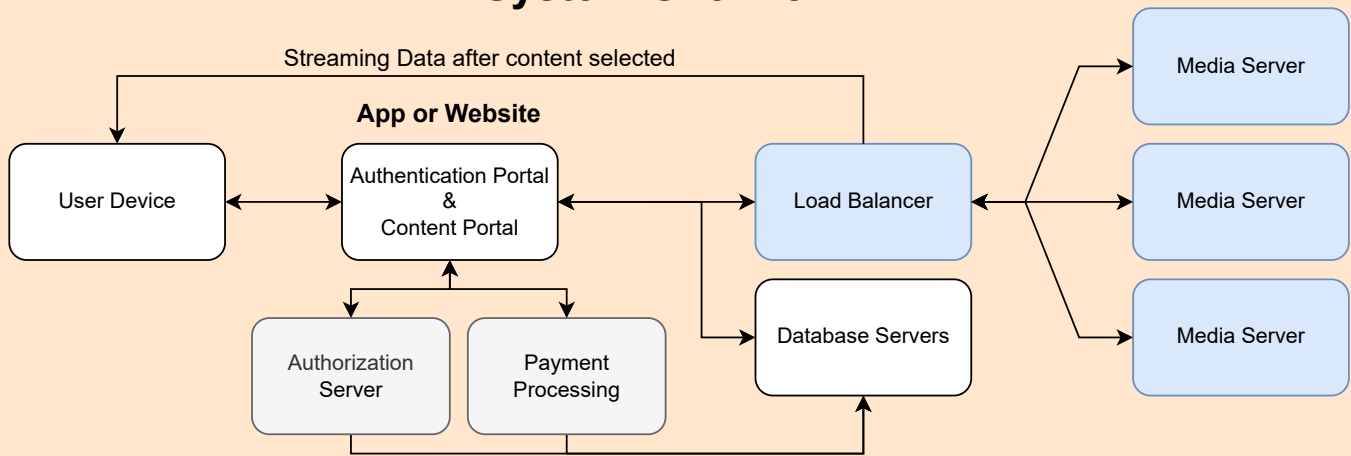


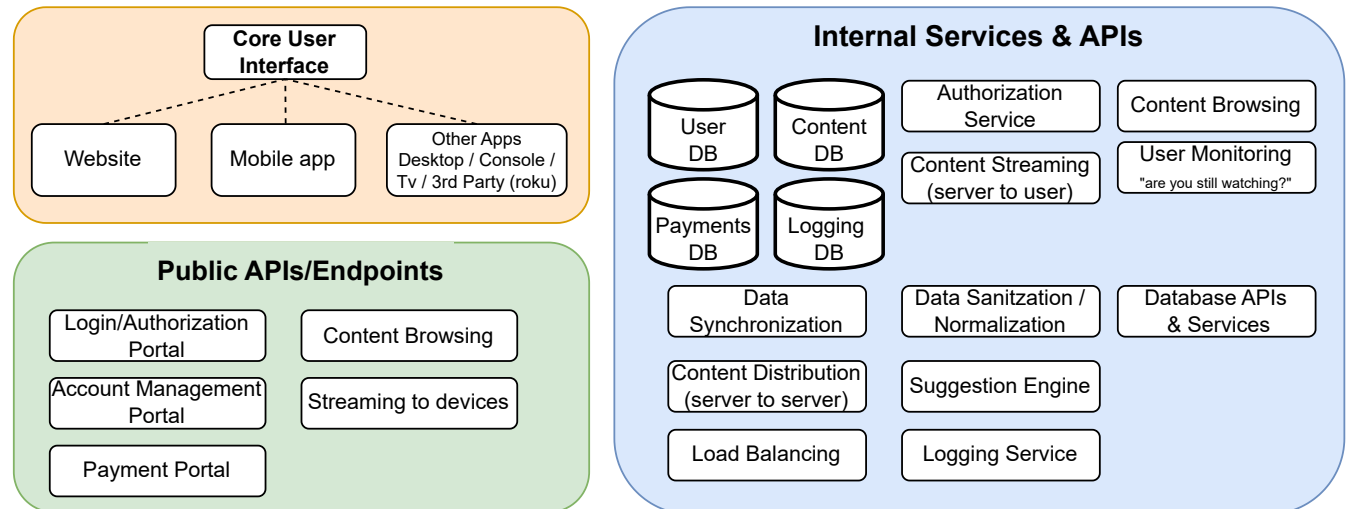
Streaming Service Architecture Overview

R.Brenckman - ITE217 - Week 1

System Overview

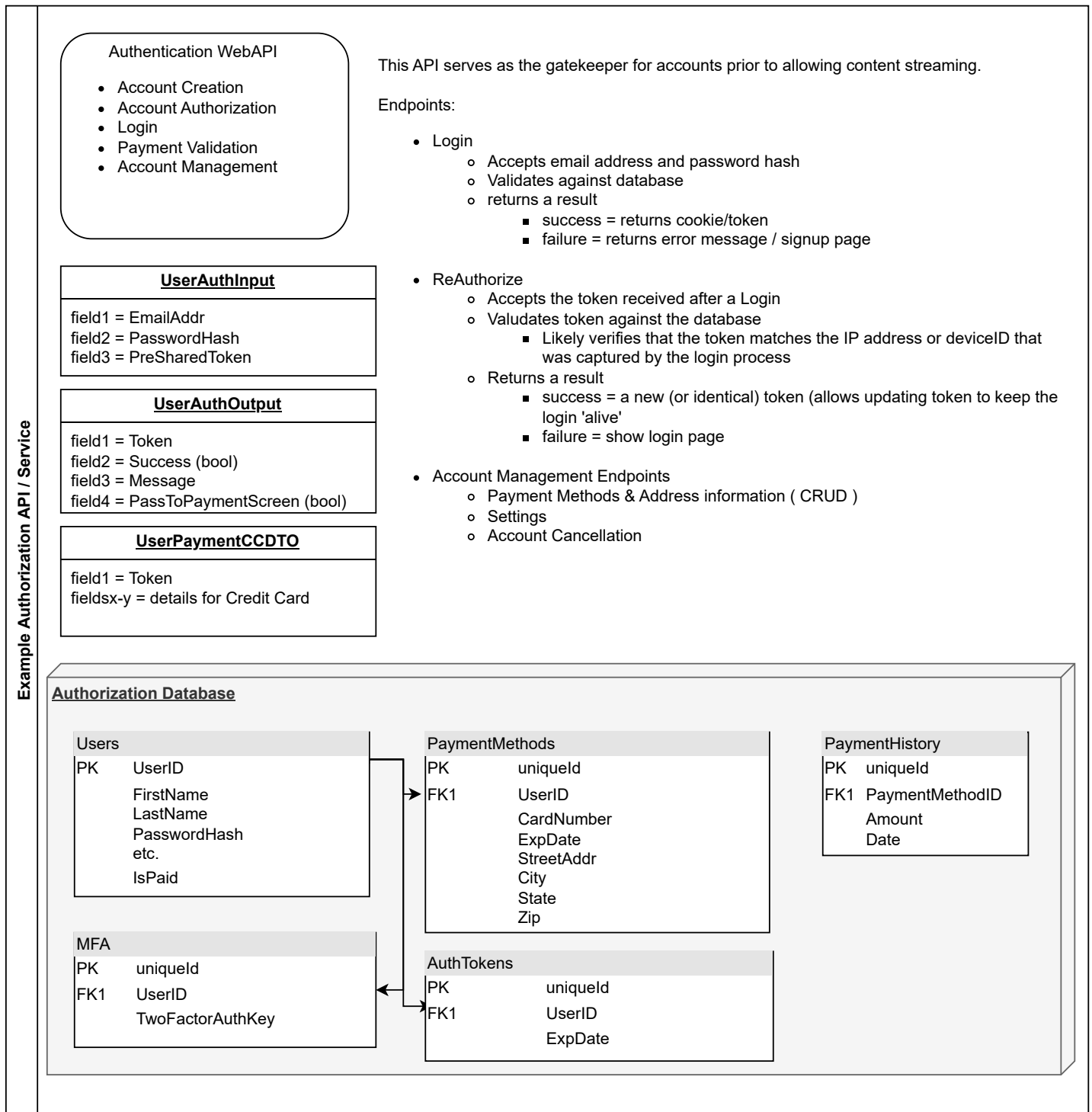


System Components & Services



Streaming Service Architecture Overview

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Streaming Service Architecture Overview

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Example Content API / Service

Content Browsing (WebAPI)

- Requires auth. token from user
- Gets collection of titles and their metadata
 - Title, still image, languages/rating, etc.
 - May be a collection of collections, (genre with titles)
- As user browses, requests are made to server for more items from the collection, depending on the queue.
 - briefly cached locally for quick browsing in other direction

ContentDTO

field1 = ContentID
field2 = Title
field3 = URL_Still_Image
field4 = URL_Preview
field5 = Tags []
field6 = Year
field7 = Genre

ContentCollectionDTO

```
{  
  genre : ContentDTOs { },  
  genre2 : ContentDTOs { },  
  etc.  
}
```

This would be a webAPI the app interacts with while user is browsing the content menus

Endpoints

- Search?search=%SearchTerm%
 - Returns a content collection of search results
- GetPreview(ContentID)
 - Returns the video stream for the content preview
- GetCoverArt(ContentID)
 - Returns the cover art to display to user
- GetSuggestedContent()
 - Gets the starting content for user's home page on initial load
- Browse
 - Various endpoints or 1 endpoint with various arguments to allow browsing of genres, similar content, etc
- GetDetails(ContentID)
 - Gets additional details about the content (actors, metadata, etc)
- Play
 - Endpoint that initiates streaming to the user's device
 - User app potentially begins talking to a difference api for controlling the stream (play/pause/cancel/etc)

Content Database

MediaMetadata

PK ContentID
Title
Year
Genre
etc,

Tags

PK TagID
Description

MediaURLs

PK unqueld
FK1 ContentID
URL

MediaTags

FK1 ContentID
FK2 TagID