

Binge Buddy: Smarter Streaming



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Meet the Team



Hannah Dietrich

Computer Science Undergraduate student



Joshua Adkins

Computer Science Undergraduate student



Todd Beatty

Computer Science Undergraduate student



Joanna Graphman

Computer Science Undergraduate student



William Ward

Professional Window Licker (retired)



Problem Statement

Viewers struggle to keep track of new episodes and content releases across a multitude of streaming platforms, leading to frustration and inefficiencies in managing their entertainment preferences.

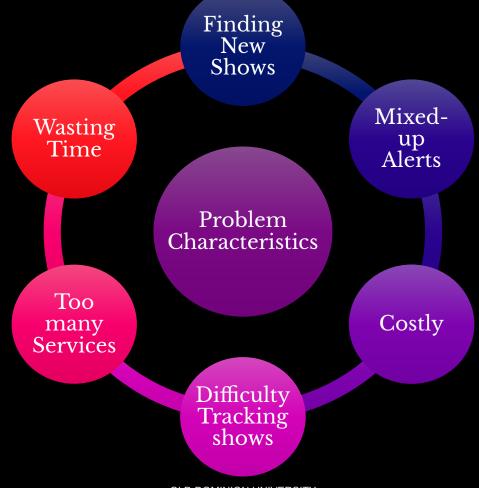




Identification of Users and StakeHolders:

- Our primary users are individuals who actively subscribe to multiple streaming services.
- These users are typically overwhelmed by the number of platforms, fragmented watchlists, and release schedules.
- They want a better way to manage their entertainment without jumping between apps.







Problem Characteristics

- •Navigating through multiple platforms is time consuming
- •Users waste time switching between platforms to track their favorite shows
- •Inconsistent notifications can cause viewers to miss new episodes
- •There is a monetary strain of maintaining multiple subscriptions



r/movies • 9 mo. ago filmstack

How do you keep track of what you want to watch/have watched?

Discussion

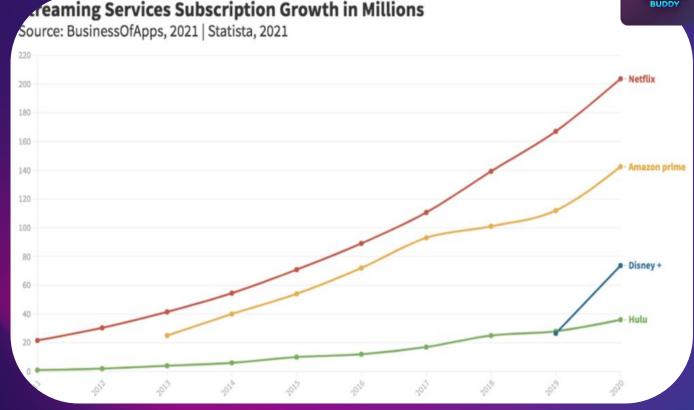
As the title says really! There's options out there like letterboxed and similar websites/apps.

I've personally never found something that ticks enough boxes on its own that I'd like

- · Log what you've seen/want to see
- Added functionality to keep TV shows in the same place
- Be able to see where the film is streaming and get alerts when it is (sub vs rent)
- Some kind of calender view to see when films will be released/come to streaming would be huge
- A way to follow news for upcoming films you're interested in easily
- Something to do with feel, mood, genre that makes picking from the stack much easier than spending an age deciding

https://www.reddit.com/r/movies/comments/1cv0gyu/how_d o_you_keep_track_of_what_you_want_to/

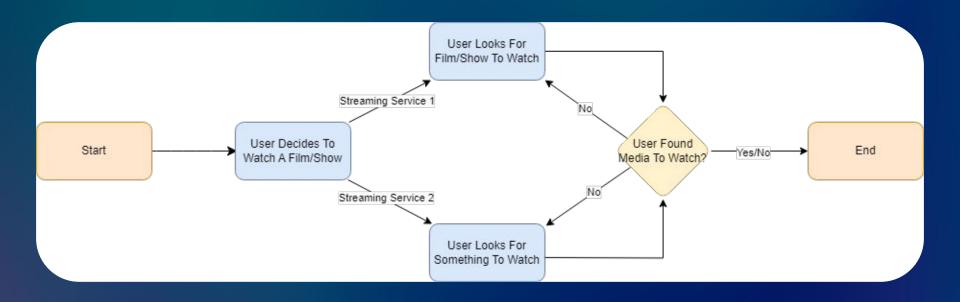
- •Streaming service subscriptions have grown rapidly and will likely keep rising as platforms keep adding exclusive content.
- •Clear need to help viewers track and bookmark across platforms.



https://amt-lab.org/blog/2021/11/streaming-service-algorithms-are-biased-and-directly-affect-content-development



Current Process Flow





Solution Statement

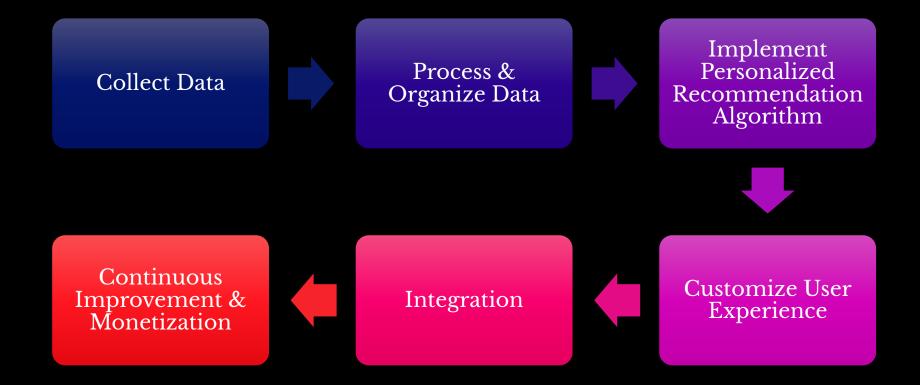
Use collected data from available apis and users to create a one-stop-shop for everything related to streaming (i.e. watchlist, finding shows, etc.).



<u>me6ck9Ef2SZQrZEFqVxgzc.jpg (4246×2388)</u>



Solution Process Flow



What BingeBuddy Will Do





DISPLAY SUBSCRIPTIONS

Display which streaming service(s) each showing is on (greyed out if not logged in/owned)



BOOKMARKING

Allow bookmarking to track shows



USER PREFERENCE

Have a similar interface to most streaming services (top rated, recommended, etc.) that is tailored to user preference.



SEARCH AND FILTER

Allow filtering and searching



AI CHATBOT

Interactive AI chatbot that will find shows and navigate the app



INTEGRATE USER DATA

Recommend TV shows/movies based on user data across streaming services



What BingeBuddy Won't Do

NO PIRATED OR ILLEGAL CONTENT

Won't allow user to watch films on the app
Provides link to watch on streaming platform

NO LIVE TV TRACKING

No live sports or news tracking

NO MANAGING SUBSCRIPTIONS

Cannot cancel, renew or manage – only view

DOES NOT USE
LIVE AI CHAT

Responses are pre-scripted

NO GAMING CONTENT



NO PODCAST OR MUSIC STREAMING



NO OFFLINE WATCHLIST OR DOWNLOADS



DOES NOT COLLECT SENSITIVE DATA

Such as sensitive emotional health data

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Competition Matrix



Feature	BingeBuddy	JustWatch	Reelgood	TV Time
Bookmark Movies & Shows across platforms	V	V	V	V
Specific new episode notifications	V	×	×	V
Aggregates multiple streaming services	V	V	V	×
Personalized recommendations	V	×	✗ (Limited)	×
Syncs with user watch history	V	V	V	V
Custom user-curate lists	V	×	V	V
Cross-platform syncing	V	×	V	×
Price tracking for rentals/subscriptions	~	V	V	×
Al Chat Bot	V	X	×	X







Integrated Develop 18 Version Control Environment (IDE)

Continuous Integration (CI) & Continuous Deployment (CD)

VS: FOR ITS EASE
OF USE AS WELL
AS ITS
INTEGRATION OF
ADDONS TO AID
IN PROGRAMING

NOTEPAD++:

ECLIPSE: ITS FREE, GITHUB INTEGRATION.

INTELLIJ: CLEANER
AND FEELS MORE
MODERN IN UI,
HAS A CLEAN
AUTOCOMPLETE.
HAS GITHUB
INTEGRATION.

GITHUB: FOR
BRANCH VERSION
CONTROL
BETWEEN THE
MANY DIFFERENT
ITERATIONS OF
THE APP AND ITS
ABILITY TO ROLL
BACK AND KEEP
BRANCHES
SEPARATE
BETWEEN EACH
PERSON WORKING
ON THE APP

GITHUB: FOR
FURTHER
DEVELOPMENTS
THAT CAN BE
CONTROLLED AND
ROLLED OUT,
GITHUB WILL BE
USED TO PUSH
UPDATES AND
ADDED FEATURES
TO THE APP AS
NECESSARY.

Software Development Sprint Plan



Sprint 0 Goals:

- Define Project
- Create GitHub
- Sprint schedule
- Backlog format
- Research tech
 - ex.React Native
 - ex.NoSQL
 - ex.JustWatch API

Sprint 1 Goals:

- Begin designing program
- Login/Registration
- Main UI layout and navigation
- Set up basic watchlist creation and display
- Initial streaming data using JustWatch API
- Establish schema and backend structure

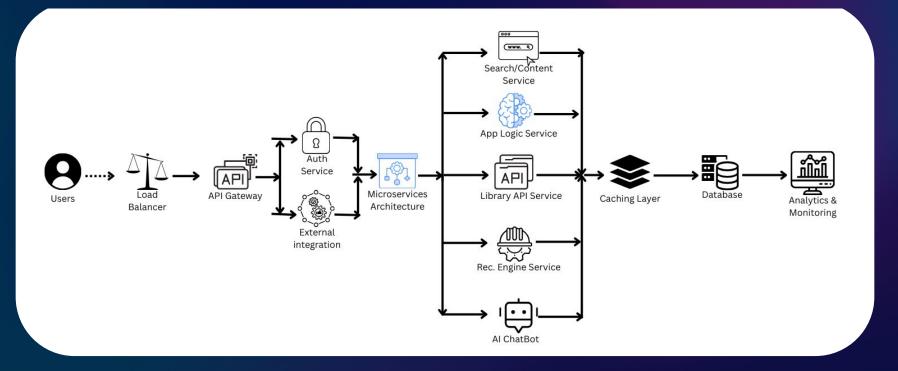
Sprint 2 Goals:

- Add MoodBot
- Link mood input to recommendation engine
- Add Notification scheduler
- Filtering and search functionality
- Begin unit testing

Sprint 3 Goals:

- Complete beta testing & bug fixes
- Improve recommendation engine
- Add data
 validation
- Add privacy safeguards

Major Functional Components Diagram





Work Breakdown Structure

Front End:

- GUI Design
- Navigation Logic
- User Authentication UI
- Watchlist UI
- MoodBot Chat UI
- Mood Input Component

Backend:

- API Design
- User Management
- Notification System
- Data Sync Logic
- MoodBot Logic & Response Mapping
- Mood Tag Routing to Recommendation Engine

Database:

- SchemaSetup
- Watchlist Storage
- UserPreferences

DevOps & Testing:

- CI/CD
- Unit Testing
- Beta Testing
- DeploymentSetup



Algorithms

- Search & Filtering
- •Recommendation Engine (based on watch history)
- •Reminder Notification Scheduler
- •Streaming Availability Checker
- Data Cleaning/Scraping (if pulling show data from sources)

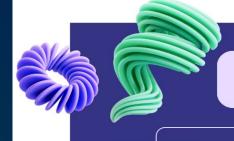




Algorithms

- •User Behavior Analysis (for analytics, if relevant)
- •Duplicate Detection
- •User Onboarding Personalization
- •Mood-Based Recommendation Algorithm
- •Emotion-based Content Matching
- •Mood Response Flow





Data Schema

USERS

- user_id
- email
- password_hash
- platforms
- mood_history
- created_at

MEDIA ITEMS

- media_id
- title
- genre
- platforms
- mood_tags
- release_date
- rating

WATCHLIST

- user_id
- media_id
- status
- added_at

NOTIFICATIONS

- notification_id
- user_id
- media_id
- notify_date
- type



Real World Product vs Prototype

Feature	Prototype	Real World Product
Account setup and login	Present	Present
Cross-platform data syncing	Present	Present
Search for and filter shows	Present	Present
Display current shows and subscriptions	Present	Present
Watchlists and bookmarking	Not available	Present
Personalized recommendations and price tracking	Not available	Present
New episode notifications	Not available	Present
AI Chat Bot	Not available	Present







Required Libraries, Tools, and Technologies

Programming Languages

- Python
- JávaScript

Database Technologies

NoSQL

Frameworks

React Native

Libraries and Dependencies

- Authentication libraries
- Data tracking libraries
- Justwatch API

Testing Tools

- Unit testing
- MoodBot
 Response Testing

Development Tools

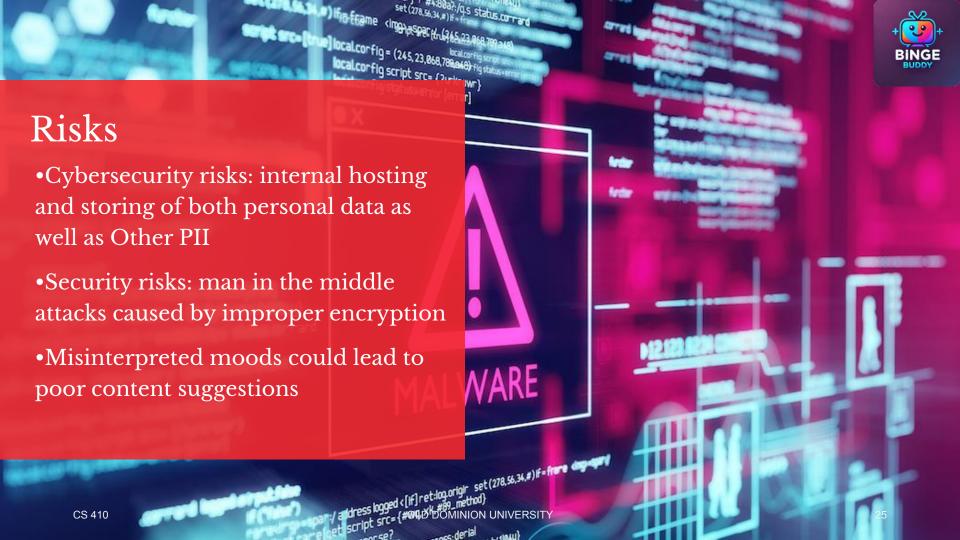
- Node.js
- VS code
- Eclipse
- GitHub

Monetization

Ad based monetization:

- Allow companies to buy ad space
- Allow streaming services to give users recommendations based on liked or commonly watched tags or content.



























USER STORIES







As a Registered User:

- As a registered user, I need to be able to login to my account.
- As a registered user, I need my streaming subscriptions to be integrated and displayed in one platform.
- As a registered user, I need to be able to search and filter for shows using a variety of filtering options.
- As a registered user, I want to create watchlists and bookmark shows.
- As a registered user, I want to get personalized recommendations.
- As a registered user, I want to get notified when a new episode, season, or movie releases/becomes available.
- As a registered user, I want to interact with an AI buddy that checks in on my mood and suggests content based on how I feel.



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Thank You

https://strillakilla.github.io/BingeBuddy/

