Introduction:

Archivr (All-in-one Reactive Collection with Heavy Interconnectedness and Valuable Ratings) is a multimedia website that displays recommendations on movies, tv shows, music, podcasts, books and video games. The purpose of this feasibility study is to gauge interest in our project through survey responses and to analyze tools & resources we may need to use in the development of our application.

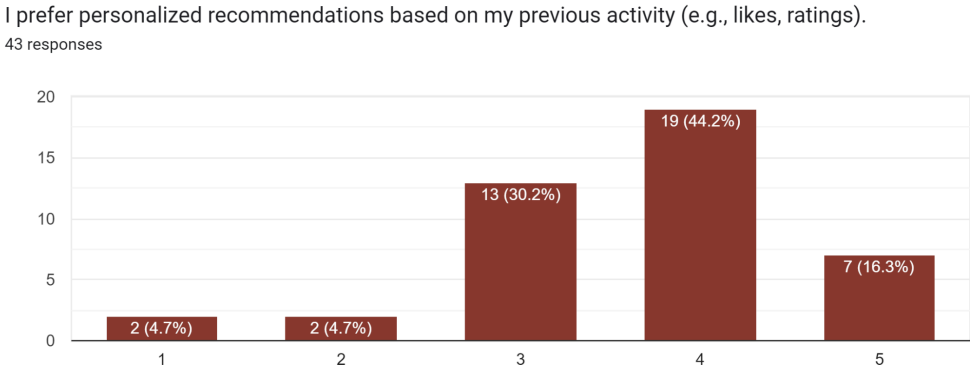
Tools & Resources:

In our research, we found a variety of tools and resources that we will be using and others that we are considering. For the front-end tools, we decided to use React along with ShadCN and Tailwind due to our team's familiarity with these.

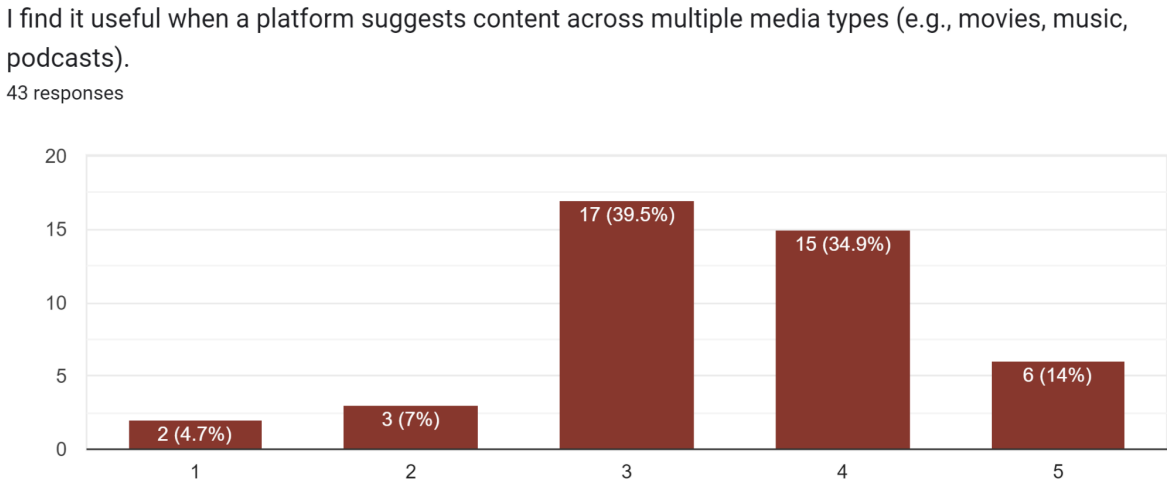
For similar reasons, the back-end tools we decided on were Node.js and Express.js. We also chose to use typescript for type safety. We listed a variety of APIs that we will look into using including TMDB, OMDB (for movies + tv shows), MusicBrainz, LastFM, Napster (for music), ITunes (for music, podcast) OpenLibrary, ISBNC, Google Books (for books), and IGDB, GiantBomb, Libretro (for video games). These APIs will help us retrieve relevant metadata about the media. We will not be using all of these, but as we do more research we will choose the ones that work best for our use case.

For storage, we chose to use MySQL due to its simplicity and some of our team having experience with it. We will use this to implement a relational database to store user information. Finally, for team collaboration, we will be using git and github since it's required.

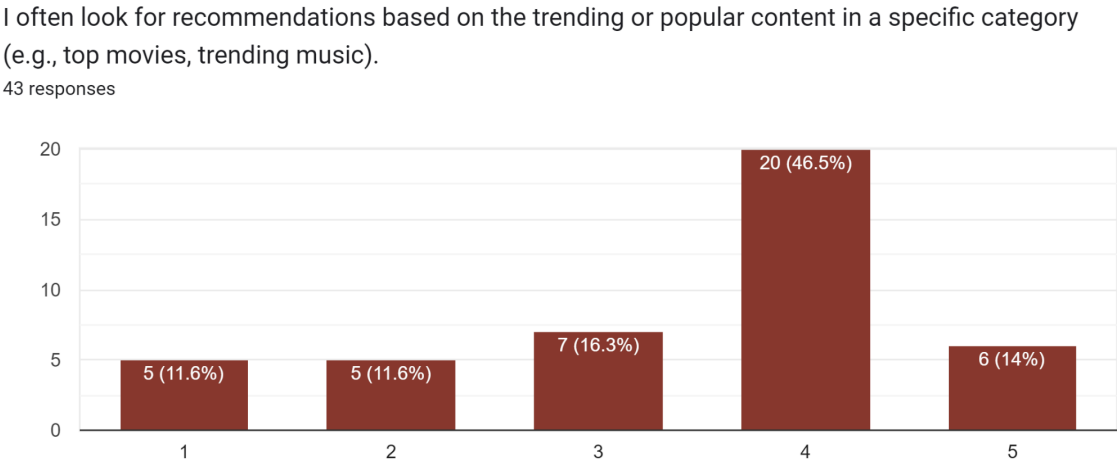
Survey Results:



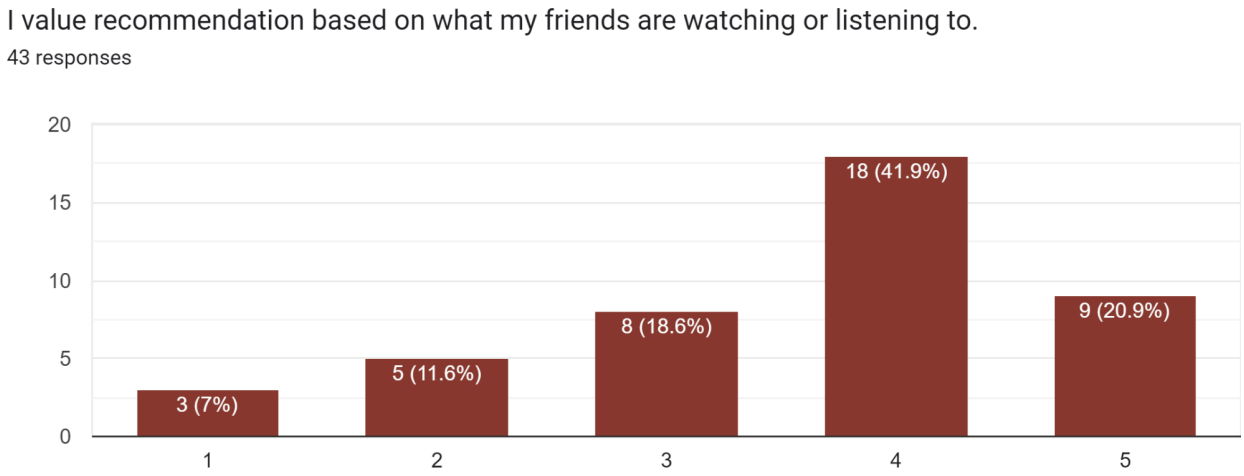
Conclusion: The average response was 3.63, suggesting that most participants moderately value personalized recommendations based on their previous activity. This shows us that there is an interest for a website like this, with this type of features.



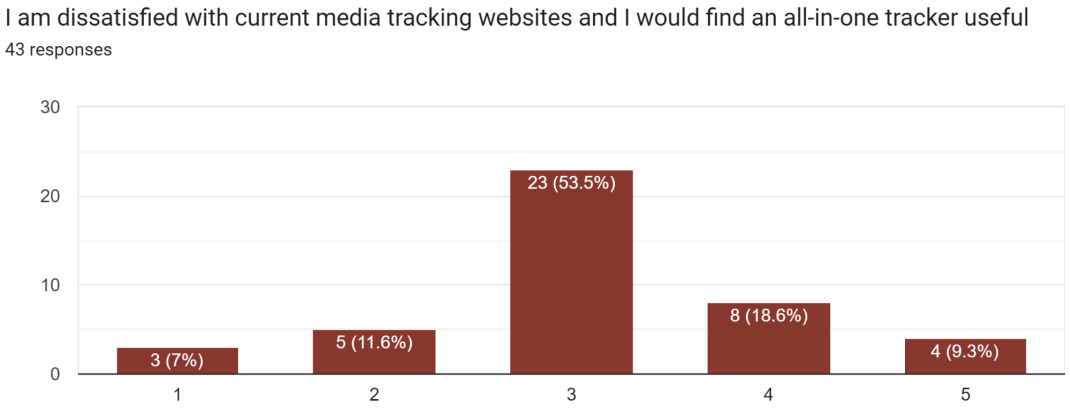
Conclusion: With an average of 3.47, participants find it somewhat useful when platforms suggest content across multiple media types like movies, music, and podcasts.



Conclusion: The average response was 3.40, indicating a moderate interest in recommendations based on trending or popular content in specific categories.This gives us insight on some of the features we should focus more on.



Conclusion: The average rating of 3.58 shows that recommendations based on what friends are watching or listening to are considered fairly important. This gives us insight on some of the features we should focus more on.



Conclusion: With an average score of 3.12, participants were somewhat neutral about being dissatisfied with current media tracking websites, though they slightly lean towards finding an all-in-one tracker useful.

Conclusion:

In conclusion the project seems feasible given the tools and resources chosen. React, ShadCN, and Tailwind are solid front-end choices, while Node.js, Express, and TypeScript ensure type safety and scalable backend development. Using APIs like TMDB, MusicBrainz, and Google Books covers essential metadata retrieval. MySQL is a reliable relational database choice, especially with team familiarity.