

3. Solution

The development of CineScope has followed an iterative engineering design process to ensure that each stage of the solution was carefully evaluated and refined to meet project goals. This section outlines the alternative solutions considered, their evaluations, and the final solution chosen.

3.1 Solution 1

Our initial approach, Solution 1, aimed to create a straightforward media information database with a basic Model-View-Controller (MVC) architecture. This version was designed to offer essential functions like browsing and rating movies and TV shows, integrating APIs for real-time information updates. The user interface in this initial design focused on ease of use, with simple navigation that allowed users to quickly access information.

However, while Solution 1 offered a functional start, we identified several limitations:

- Firstly, this design did not fully address one of our key goals—supporting independent filmmakers by providing them a platform to showcase their content. Without this feature, CineScope risked being too like existing platforms like IMDb, lacking the distinct niche appeal needed to attract a broader user base.
- Additionally, the limited interactivity, which was initially restricted to browsing and rating, did not sufficiently engage users.

For example, there was no way for users to track favorite content or leave reviews, both of which are features our target users seek in a media platform.

In summary, Solution 1 provided a solid foundation but lacked essential features for indie support, deeper user engagement, and complete data privacy measures. These insights led us to a second iteration, which addressed these gaps.

3.2 Design 2

Based on the evaluations from Solution 1, we developed Solution 2 as an enhanced version with improvements across several areas. The key change was the addition of support for independent filmmakers, allowing them to upload and promote their content on CineScope. By catering to both mainstream and independent productions, we aimed to differentiate CineScope from larger platforms and attract a wider range of users, including those interested in niche content.

We also enhanced interactivity in Solution 2 to encourage greater user engagement. New features included profile creation, tracking favorite shows or movies, and allowing users to post reviews. These additions transformed CineScope into an interactive platform where users could not only find information but also share opinions and engage more deeply with the content, fostering a community around shared media interest.

Despite these advancements, Solution 2 introduced new challenges, particularly around budget constraints. Expanding features such as indie content support and enhanced interactivity increased project costs. However, we addressed this by focusing on an MVP (Minimum Viable Product) approach to manage costs while still delivering core features.