

# Project Proposal: "Movie Night Mayhem"

## Overview

Movie Night Mayhem is a web application designed to take the stress out of planning movie nights with friends. The problem it solves is the endless back-and-forth of suggesting movies, checking everyone's availability, and finding something everyone agrees on. This project is motivated by my own experiences with this common frustration and a desire to build a tool that makes socializing more enjoyable.

## Target Audience

This application is targeted at anyone who enjoys watching movies with friends or family. It will be particularly useful for:

- Groups of friends who regularly have movie nights.
- Families are looking for an easy way to decide on a movie to watch together.
- Couples who want to find a movie they will enjoy.

## Major Functions

1. **Create a "Movie Night" Event:** Users can create an event, give it a name, date, and time, and invite friends.
2. **Invite Friends:** Users can invite friends to a movie night event by entering their email addresses or sharing a unique event link.
3. **Suggest Movies:** Users can search for movies and add them as suggestions to the event.
4. **Vote on Movies:** Invited users can vote on the suggested movies. The application will track votes and display the current leader.
5. **View Movie Details:** Users can click on a movie suggestion to view details like the synopsis, trailer, cast, and ratings from sources like IMDb and Rotten Tomatoes (using external APIs).
6. **Comment and Discuss:** Users can leave comments on movie suggestions to discuss their preferences and persuade others.
7. **Set Availability:** Users can indicate their availability for the event, helping to determine the best time for everyone.
8. **Finalize Movie Selection:** The application will automatically select the movie with the most votes at a designated time or when all participants have voted.
9. **"Surprise Me" Feature:** For those who can't decide, a "Surprise Me" button will randomly select a movie based on user-defined criteria (e.g., genre, rating, release date).

10. **Responsive Design:** The application will be fully responsive, adapting seamlessly to different screen sizes for optimal viewing on both desktop and mobile devices.

## Wireframes

[Include wireframes of the major views, both mobile and desktop. Tools like Balsamiq, Figma, or even hand-drawn sketches can be used.]

## External Data

- **The Movie Database (TMDb) API:** To fetch movie information (title, poster, synopsis, trailer, cast, etc.).
- **OMDb API:** As an alternative or supplement to TMDb, to potentially access ratings from IMDb and Rotten Tomatoes.

## Data Storage

- **Local Storage:** To store user preferences, such as preferred genres and recently viewed movies, for a personalized experience.

## Module List

- **UI Module:** Handles all user interface elements, including rendering movie information, displaying user interactions, and managing navigation.
- **API Module:** Responsible for fetching data from the external APIs (TMDb and potentially OMDb).
- **Event Handling Module:** Manages user interactions and events, such as button clicks, form submissions, and voting.
- **Data Management Module:** Handles data storage and retrieval using local storage.
- **Animation Module:** Implements CSS animations to enhance user experience and visual appeal.

## Graphic Identity

- **Color Scheme:** A dark background with vibrant accent colors (e.g., deep blue background with accents of orange, teal, and purple) to create a cinematic feel. Include Color Schema actual values.
- **Typography:** A combination of a bold sans-serif font for headings (e.g., Montserrat) and a more readable serif font for body text (e.g., Merriweather) to balance visual interest and readability.
- **Application Icon:** A stylized popcorn bucket with a play button overlaid.



## Timeline (Weeks 5-7)

- **Week 5:**
  - Complete the HTML structure for all major views.
  - Style the basic layout and navigation using CSS and the chosen CSS framework.
  - Implement the API module to fetch and display movie data from TMDb.
- **Week 6:**
  - Build the core JavaScript functionality for creating events, inviting friends, and suggesting movies.
  - Implement the voting system and display real-time vote counts.
  - Begin working on the "Surprise Me" feature.
- **Week 7:**
  - Finalize all remaining functionality, including user authentication, comment sections, and availability tracking.
  - Refine the UI, add CSS animations, and conduct thorough testing.
  - Deploy the application and submit the project.

## Project Planning

[Link to a Trello board with detailed tasks.]

This project proposal outlines a plan to develop a functional and engaging web application that addresses real-world need using HTML, CSS, and vanilla JavaScript, while adhering to best practices and industry standards.