# Project Proposal — Phase 1

\*\*Project Title:\*\* Movie Library API

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## Dataset Chosen

For Phase 1, I am using a dummy dataset stored in-memory as a JSON array of movies. Each movie contains the following fields:  
- id (integer)  
- title (string)  
- genre (string)  
- year (integer, optional)  
- rating (float, optional)  
  
In later phases, I may replace this with a Kaggle dataset (e.g., Movies Dataset or IMDB dataset) to provide more meaningful data for advanced features.

## Objectives

- Set up a basic Node.js + Express.js project.  
- Implement basic routes for CRUD operations with dummy data.  
- Plan for future implementation of advanced features such as authentication, filtering, and pagination.

## Feature List (Planned)

Phase 1 (Implemented with Dummy Data):

- GET /movies → Get all movies.  
- GET /movies/:id → Get a movie by ID.  
- POST /movies → Add a new movie.  
- PUT /movies/:id → Update a movie.  
- DELETE /movies/:id → Delete a movie.

Future Phases (Planned):

- Search and filter movies by genre, year, or rating.  
- Implement pagination for large datasets.  
- Add authentication for secured routes.  
- Connect to a real dataset (Kaggle or custom).

## Wireframes (Optional)

For Phase 1, the application is API-only, so UI wireframes are minimal. JSON responses will be returned for each endpoint.  
Screenshots of endpoint outputs (e.g., /movies and /movies/1) are included in the /wireframes folder of the GitHub repository.

## GitHub Repository

[https://github.com/manrajcanada2002-create/movie-library-api]