# Project Plan

## 1. Timeline (Gantt Chart)

The project will be completed over four weeks, with each week focusing on specific tasks. Below is an overview of the timeline:

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| --- | --- |
| Week | Task Description |
| Week 1 | Initial setup, wireframing, and basic layout implementation |
| Week 2 | API integration, core feature development, and Redux setup |
| Week 3 | Pagination, sorting, testing, and error handling |
| Week 4 | UI/UX refinements, final testing, deployment, and documentation |

## 2. Milestones

### Week 1: Project Setup & Basic Layout

- Install required dependencies (React, Redux, API tools)

- Create wireframes and finalize UI/UX design

- Develop the basic structure of the application

### Week 2: Core Features Development

- Integrate the third-party movie API

- Implement search, filtering (genre, rating, year)

- Establish Redux state management

### Week 3: Advanced Features & Testing

- Add pagination and sorting functionality

- Conduct unit tests using Jest

- Implement error handling for API failures

### Week 4: Deployment & Finalization

- Improve UI with animations and responsiveness

- Conduct end-to-end testing

- Deploy the application to Heroku/Netlify

- Prepare final documentation

## 3. Deliverables

- \*\*Week 1:\*\* Wireframes, UI layout, project setup

- \*\*Week 2:\*\* API integration, core components, Redux setup

- \*\*Week 3:\*\* Pagination, sorting, unit tests, error handling

- \*\*Week 4:\*\* Final UI improvements, deployment, full project documentation

## 4. Resource Allocation

The project team will be divided into the following roles with specific responsibilities:

|  |  |
| --- | --- |
| Role | Responsibilities |
| Frontend Developer | UI/UX implementation, React component development |
| Backend/API Developer | API integration, data handling, error management |
| QA Tester | Unit testing, debugging, and quality assurance |
| Project Manager | Task assignment, milestone tracking, and documentation |