



WeatherWatch

A Code First Girls Group Project

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What is the concept/ What are we building?

Overview

WeatherWatch is a weather-based movie recommendation web application. The idea is simple and fun: users get a movie suggestion tailored to their current weather conditions. The app brings a light-hearted twist to movie night decisions by blending meteorology with entertainment taste. In the future, we envision incorporating user preferences, their current mood, and watch history for even more brilliant suggestions.

How it works

We use the OpenWeatherMap API to get the user's current weather based on their location.

We map weather types (e.g. sunny, raining, snowing, cloudy) to movie genres using the TMDb API.

The app fetches and displays a movie poster, title and film synopsis.

Users can filter suggestions by movie release year or shuffle for a new recommendation.

Who will this help?

Our target audience includes:

- Casual movie watchers looking for fun and unique suggestions.
- People stuck indoors due to weather (rainy, snowy etc).
- Users who want an engaging and personalised way to pick a movie.
- Busy individuals who want quick decisions without scrolling.
- Young adults and students who enjoy web-based entertainment tools.

Essentially, anyone looking for a quick weather-inspired movie.

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How will we be working? What tools will help with that?

As a team, we are collaborating using:

- **GitHub** for code collaboration and version control
- **Google Docs & Sheets** for signups, planning and documentation
- **Figma** for wireframes and prototyping
- **Sprint Board** for agile sprint planning and task management
- **VS Code** for development
- **Node.js / Express** for backend (API integrations)
- **React** for frontend (UI/UX)
- **CSS** for styling
- **Postman** for testing APIs

We are working using agile principles — short iterative sprints and regular check-ins. Each sprint includes clear deliverables, reviews, and retros. Our shared tools promote transparency and ease of collaboration.

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How are we organising the workload

We have created a Google Sheets sign-up sheet to assign roles and components. Work is divided by:

- Designing
- Front-end tasks
- Back-end tasks
- API integration
- Testing & Debugging
- Documentation
- Project management

We are also using a sprint-style board to track tasks, bugs and completed features. Each member has signed up for specific roles in the project cycle. We check in with each other frequently to help us stay aligned.

Our GitHub strategy includes regular pull requests with peer review. We also plan pair programming for complex tasks.

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Main Features of WeatherWatch

1. User Login/Authentication (to validate age and confirm location; future use would be for storing watch history)
2. Get weather-based movie recommendations
 - a. Use user location(geolocation or input)
 - b. Fetch weather data from OpenWeatherMap API
 - c. Map weather to movie genres (fetch data from TMDb API)
3. Shuffle Button
 - a. Fetch a different suggestion in the same weather category
4. Filter by decade
 - a. Buttons to filter by movie release decade (e.g. 2000s, 1990s etc)
5. Movie Details Display
 - a. Show movie poster, title, synopsis rating, and release year
6. Responsive UI
 - a. A clean design with mobile and desktop support
7. Error handling for unavailable APIs or geolocation

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Examples of Weather to Genre mapping

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- Sunny/Clear
 - Adventure
 - Comedy
 - Rainy
 - Drama
 - Mystery
 - Snowy
 - Fantasy
 - Holiday
 - Cloudy
 - Sci-Fi
 - Thriller

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Future and Possible Enhancements

- Mood-based filters to make recommendations more accurate
- Recommendations adjustment based on watched/liked movies
- Movie trailers
- Offering suggestions for "now in cinemas" movies for keen cinemagoers
- Friends invites/ virtual watch party setup