

Member 5 — Search Function, User Interaction, and App Logic

Objective: Connect user input to API and UI components to make the app fully interactive.

Role and Importance: Member 5 ensures the **app reacts correctly to user input**, coordinating between API data and interface updates.

Detailed Responsibilities: - Capture and validate user input from search bar. - Trigger data retrieval and handle response. - Update interface according to current state (loading, success, error). - Integrate with DOM functions and API methods. - Use mock API responses to test interactions before real integration.

Weekly Objectives & Milestones: - **Week 1:** Capture input and call mock API functions. - **Week 2:** Connect user input to live API and DOM updates. - **Week 3:** Ensure complete workflow including error handling and state management.

Goal: Deliver a **fully interactive workflow**, ensuring the app responds logically and efficiently to user actions.

Parallel Work & Dependency Management

Principles: - Define **module ownership** and **clear interfaces** for each member. - Use **skeleton HTML, placeholders, and mock data** to allow parallel work. - Maintain **weekly objectives** to track progress. - Integrate modules periodically to avoid conflicts. - Communicate daily to confirm status and resolve issues.

Result: Each member works independently, minimizes idle time, and contributes to incremental progress, ensuring smooth final integration.

Summary Table of Member Contributions

Member	Role Focus	Key Objective	Importance
1	Structure	Build HTML foundation	Allows styling and interactivity to work effectively
2	Visual Design	Style & make responsive	Ensures user-friendly, professional interface
3	Data	Fetch & provide weather data	Enables dynamic, real-time content
4	UI Updates	Display data dynamically	Translates raw data into visible, understandable info
5	Interaction	Connect input → data → UI	Makes app interactive and functional

This document can be split into five individual sections, each detailed enough to serve as a standalone guide for one member, including objectives, responsibilities, weekly goals, and integration strategies.