

## 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.

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## 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.

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## 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

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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.