

EXP 5 : Weather App UI Design Using RAD Model

RAD Model (Rapid Application Development)

The RAD model emphasizes quick development and frequent iterations based on user feedback. For the **Weather App**, the RAD model was applied as follows:

1. Requirements Planning

- **Initial Requirements Gathered:**
 - Display real-time weather for current location.
 - Allow users to search and add multiple cities.
 - Provide hourly and weekly forecasts.
 - Create an engaging and visually appealing UI (day/night themes).
 - **Stakeholder Engagement:**
 - Identified that users prefer minimalistic, fast-loading interfaces.
 - Prioritized easy navigation and quick access to search functionality.
 - Decided to use **weather icons** and **background illustrations** (e.g., night sky and house).
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2. User Design

- **Initial Prototypes and Wireframes:**
 - Designed the **Home Screen** showing temperature, city name, and weather conditions.
 - Created the **Search/Add City Screen** where users can easily browse or search other locations.
- **Feedback Sessions:**
 - Tested prototypes with users for:
 - Visual clarity (is the temperature easy to read?)
 - Navigation flow (is adding a city simple?)
 - Visual comfort (nighttime theme for better nighttime viewing).

- **Tools Used:**

- Created interactive wireframes and high-fidelity prototypes using **Figma** (similar to Axure RP).
 - Mapped the navigation flow between Home Screen and Search Screen with clickable interactions.
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3. Construction

- **UI Development:**

- Developed the app screens based on the refined prototype.
- Used animated backgrounds and weather icons to improve user engagement.

- **Iterative Testing:**

- Conducted multiple feedback loops:
 - Users suggested larger city fonts and more vivid weather icons.
 - Minor UI changes made (button sizing, icon positions).

- **Integration:**

- Connected the UI with real-time data from OpenWeatherMap API.
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4. Cutover

- **Final Deployment:**

- Final Weather App UI was deployed for testing on devices.
 - Ensured responsiveness across various screen sizes (phones and tablets).
 - Delivered a polished, user-friendly weather checking experience with quick load times.
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5.Screen Shot

