**Phase 2-> Requirements**

The **Requirements** phase involves gathering and documenting the essential needs of the SkyLens application. This includes both **functional** and **non-functional** requirements, forming the basis for the system’s design and implementation.

**Functional Requirements**

Each feature of SkyLens is supported by a dedicated HTML file:

1. **projectfinal.html**: Displays daily weather updates including temperature, location, and conditions.
2. **searchfinal.html**: Allows users to search for weather in different cities or locations using a search bar.
3. **alertsfinal.html**: Shows real-time weather alerts such as thunderstorms, flood warnings, or heatwaves.
4. **moonfinal.html**: Tracks and displays the current lunar phase and related moon cycle data.
5. **tendayfinal.html**: Presents a 10-day forecast with temperature trends, wind speed, and humidity.

These files represent the core functional capabilities of the application, all powered by weather and lunar APIs.

**Non-Functional Requirements**

SkyLens also meets key non-functional standards to ensure a smooth user experience:

1. **Responsive Design**: The layout adjusts effectively across different screen sizes and devices.
2. **Performance**: The application is designed to load quickly by optimizing API calls and scripts.
3. **Accessibility**: Readable fonts, clear visuals, and proper HTML structure improve usability for all users.

**Files Categorized**

All five uploaded files contribute directly to the application's core functions, covering both interactive features and data display. No single file is standalone; each supports a different requirement, making them all essential components of the final system.