**Internet Dependency**

* **Restriction**: SkyCast requires a stable internet connection to function properly. Without internet access, no weather data will be available.
* **Limitation**: Users in areas with slow or intermittent internet may experience delays or interruptions when fetching weather information.
* **Constraint**: The app relies on external APIs for real-time data, making it dependent on the availability and performance of those services.

**Browser Compatibility**

* **Restriction**: SkyCast is designed for modern browsers like Chrome, Firefox, and Safari. Older or less common browsers may not fully support all features.
* **Limitation**: Different browsers may have varying levels of support for web standards, and certain features may not perform consistently across all platforms.
* **Constraint**: Testing and debugging will prioritize the latest browser versions, which could result in limited support for older versions.

**Mobile Device Performance**

* **Restriction**: SkyCast may not perform optimally on older mobile devices with limited processing power or memory.
* **Limitation**: Large data sets or inefficient memory use could lead to performance issues on older devices.
* **Constraint**: The app’s design and performance are optimized for newer devices, limiting support for legacy hardware.

**Custom Activity Suggestions**

* **Restriction**: The activity suggestions generated are based on general weather data and may not reflect user-specific preferences or interests.
* **Limitation**: Generated suggestions may not always be practical or relevant to the user's current situation or environment.
* **Constraint**: Activity recommendations are influenced by the accuracy of input data and the limitations of the algorithms, meaning suggestions may not suit every user or scenario.

**Web App Limitations**

* **Restriction**: SkyCast cannot send push notifications when closed, as web apps do not support background notifications.
* **Limitation**: Users won’t receive real-time weather alerts unless they have the app open in their browser.
* **Constraint**: The limitation on background notifications is inherent to web apps and can’t be bypassed without changing the app to a native mobile or desktop platform.

**Location Coverage**

* **Restriction**: SkyCast’s weather data coverage is focused on North America.
* **Limitation**: Locations outside North America may not have access to the app’s full functionality or reliable weather data.
* **Constraint**: The app is designed to source data from APIs optimized for North America, limiting its usability in other regions.

**Scalability**

* **Restriction**: As SkyCast grows in popularity, the app will need to handle an increasing number of users.
* **Limitation**: High traffic may lead to slower performance or occasional downtime during peak usage periods.
* **Constraint**: The app’s infrastructure will need regular updates to maintain performance as user demand scales up.