# Concept Initiate 1 – User Stories

# Weather Forecast Application

## Problem Statement

This program retrieves and displays weather forecasts from the **National Weather Service API** based on a user-provided location. It converts the location into geographic coordinates and fetches forecast data, including an **hourly breakdown** of key weather details.

Users confirm their location before the forecast is retrieved. The results are displayed in the terminal in a structured format and saved to a **CSV file**. The system includes error handling for invalid locations, API failures, and missing data.

Forecasts are retrieved only when requested. The program does not retain data beyond storing it in a file, and users must manually enter a location for each request. The format of the forecast is fixed, and there are no built-in options for adjusting what information is shown or how it is presented.

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# Project Directions

This is a professional assignment that should be taken seriously. Your work is expected to meet the standards outlined in lecture, including **clear, structured writing and proper formatting**. Your final submission should be **well-organized and free of errors**, demonstrating a thoughtful and thorough approach.

Your task is to develop **user stories** that describe how different people might interact with this system. Consider the **variety of users and needs** that exist beyond simply retrieving a forecast. Your user stories should reflect **different perspectives and use cases**, not just minor variations of the same idea.

1. **Identify different types of users.** What kinds of people might interact with this system? Consider how their needs, priorities, and expectations could vary.
2. **Think through the interaction process.** What steps are necessary to get weather information? Does the system provide everything a user might need? What challenges might someone face?
3. **Consider how forecast data is used.** The program saves data but does not offer built-in ways to access or analyze past forecasts. Is this enough? Are there alternative ways someone might want to use the information?

You are **encouraged to talk to others**—getting input from different people is one of the best ways to develop strong user stories. There is no strict requirement on the number of user stories, users, or features, but your submission must be **robust**. Your work should show variety in both the types of users represented and the functionality they might expect.

## User Story Format

Each user story should include a **title** and follow this structure:

**Title:** (Brief description of the scenario)
**As a [user], I want [goal] so that [benefit].**

All work must be **pushed to your GitHub repository** in the lab section content available in **iLearn**.