

The questions we plan to answer through this prototype are 1. How can we interpret weather data through the API? 2. How can we format this information so that it is optimal for a notification? and 3. How can we have notifications go off at specific times? We plan on doing this by developing a C# application in Visual Studio. The application developers (David, Andrew, and Ryan) will work on this project. One of them will be tasked with figuring out how to interpret the data from the API. This primarily involves interpreting JSON to gather weather data. Another app developer will focus on taking that weather data and creating an algorithm that turns the data into a sentence or two that can be sent as a notification. The third developer will handle setting up timed notifications to demonstrate how we will send out this information in our app. The reason we are choosing to develop in Visual Studio is because they have a really easy Windows Forms option when developing software. This cuts out the amount of time we need to spend designing the UI since they have a drag-and-drop UI designer built in. We chose C# because we believe it provides all the functions we need and is relatively easy to code in. We plan to learn a few things from this prototype. We will learn how to work with our weather API and how to interpret JSON data. We will learn how to modify this data to create the output we need, and we will also learn how to work with system times to send notifications at specific times.