**Team Project Proposal**

**1. Team name if any**

Team Duo

**2. Names of team members**

William Harmon

Matthew Jankowski

**3. Project Title**

FM Weather App

**4. Project Objectives –**

* Project correct weather temperatures and various weather conditions for a specific area of the user.
* Be able to adapt to changing weather conditions such as flooding, thunderstorms, tornados, etc.
* Make a user-friendly layout that would make it easy for users to find the information they need.

**5. Project Scope –**

The boundaries of the project of the weather application would include and exclude or limit to the following features:

**Included:**

* Live temperature
* Average Temperature
* Daily high and lows of temperature
* Wind direction and speed
* Humidity
* Current weather condition
* Hourly temperature/Change of rain
* 7-day forecast
* Sunrise & sunset
* Feels like category
* UV Index
* Driving Difficulty
* Air Quality
* Overview

**Excluded or Limited:**

* Limited to the location of Fargo-Moorhead
* Area of a distance up to 5 miles
* Weather radar
* Recording Breaking Temps
* Moon Phases
* Pressure
* Limited School Closings and Delays
* No Maps
* Imperial, not metric

**6. Project Description –**

The project would have an application that would be able to display and reflect the correct and accurate data for the daily changing weather in an area based on location. The context that led to the initiation of the project was that we thought as a group/team what would be an application people would need that we could help address and solve. We concluded a weather app for the project would suffice and address the problem/opportunity of various users of scenarios that would enhance and better the life and planning of future situations.

**7. Requirements –**

|  |  |  |
| --- | --- | --- |
| **Epic** | **User Stories** | **Acceptance Criteria** |
| As a college student, I want to be able to use the application so that I can use the weather application in day to day situations | As a college student, I want to figure out the current weather situation so that I can allocate enough time to get to class in time. | Ensure the college student is able to:  >Run the application  >Scroll to find the hourly weather  >Determine how much time is needed based on information provided |
| As a college student, I want be able to look at the hourly forecast so that I can determine if I need to choose for an outfit to class | Ensure the college student is able to:  >Scroll or open tab to the hourly forecast  >Examine the temperatures for the day  >Choose necessary items for the day and class |
| As a trip planner, I want be able to check the weather in advance so that I can prepare for the incoming weather upon travel | As a trip planner, I want to be able to look ahead at the weather so that schedule a reasonable route | Ensure the trip planner is able to:  >Access the application  >Check the weekly forecast  >Plan accordingly to the conditions for the trip |
| As a trip planner, I want be able to get updates about sudden weather changes so that I can adapt for what I need | Ensure the trip planner is able to:  >Open the weather application  >Check updates or warnings  >Accommodating accordingly to the updates |
| As a door dasher, I want be able to see how the future weather is going to look so that I can do my deliveries in a timely manner | As a door dasher, I want check the wind chill and weather conditions so that if it is safe to go and deliver orders | Ensure the door dasher is able to:  >Navigate the application to the advisories and wind chill  >Decide the best option upon what is there |
| As a door dasher, I want see if the humidity or air quality or weekly forecast make it so that I can figured out which days are best to go out. | Ensure the door dasher is able to:  >Go to the section of the humidity/air quality  >Find the weekly forecast  >Assess the data information and determine what the best option is |
| As a local commuter, I want to be able to view and road conditions so that I can drive safely | As a local commuter, I want to see if there is ice on the road so that I can be conscious of accidents | Ensure the local commuter is able to:  > View the current weather conditions.  > See the general status of the roads based on said conditions.  > Be presented with information about car accidents due to the weather and road conditions |
| As a local commuter, I want to see if there are freezing temperatures so that I can warm up my car before travelling. | Ensure the local commuter is able to:  > View the high and low temperatures during various times during the day  > View the weather and temperature details of a specific time  > See if the temperature is below freezing and if there is a risk of their car not starting |
| As a dog walker, I want to be able to see the temperature so that I can do my job safely. | As a dog walker, I want to be able to determine how warm or cold it is outside so that I can dress appropriately | Ensure the dog walker is able to:  >View a 7-day forecast for the week and see high and low temperatures  >Select a day to view specific details about the weather  >Be given a recommendation on if heavy or lighter clothing is needed |
| As a dog walker, I want to be able to see if it is storming and be aware of weather advisories so that I can know what times I can safely walk outside. | Ensure the dog walker is able to:  >View details regarding weather advisories throughout the day  >Be presented with information about wind speed and precipitation  >Be issued warnings for hazardous weather such as blizzards and storms |

**8. Explain in a few sentences the process that was adopted for forming the team and arriving at the project idea and the user stories.**

The process for this project was when we formed the team was, we wanted to do a project that would be beneficial to multiple populations and users. We concluded a weather application would be great because the demand and use for it by people would be high. Upon the idea, we started complying a decent sized list of which high level functionalities would be included into the project along with which user stories/groups would give and/or get the biggest impact to the purpose and design of the project. After this project proposal the next steps would be potentially creating a framework of what the weather application would look like to begin of what functions and coding would be needed to complete the project.

**9. Identify the different skill sets that each of the team members can bring to the project. As an example, project management experience, or experience with HTML, JavaScript …**

**William Harmon**

* Java
* C#
* Python
* Little experience with web application
* SQL
* Linux

**Matthew Jankowski**

* Java
* Bloodshed Dev C++
* Python
* MatLab
* Some experience with web design