

CSE 1325 Project Documentation

## [weatherWyse](https://www.studocu.com/in/course/ballari-institute-of-technology-and-management/network-theory/5842786?utm_campaign=shared-document&utm_source=studocu-document&utm_medium=social_sharing&utm_content=c-programming-full-project-documentation)

## Students names, surnames:

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A logo of a weather forecast

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**Student** **declaration:**

*We declare* *that:*

* *We* *understand* *what* *is* *meant* *by* *plagiarism*
* *The* *implication* *of* *plagiarism* *has* *been* *explained* *to* *me* *by* *our* *professor*
* *This* *assignment* *is* *all* *team* *own* *work* *and* *we* *have* *acknowledged* *any* *use* *of* *the* *published* *and* *unpublished* *works* *of* *other* *people.*

**1 Student** name, surname, ID and **signature:** **……………………......**

**2 Student** name, surname, ID and **signature:** **……………………......**

**3 Student** name, surname, ID and **signature:** **……………………......**

**4 Student** name, surname, ID and **signature:** **……………………......**

**Date:……..............................................**

**Object oriented** **programming** **CSE 1325**

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Chapter One

1. Project Introduction

This project uses the API <https://www.visualcrossing.com/weather-api> to load forecast data using user input by either entering a zip code, entering a city and country or city and state. For example, to get weather data from the

zip code “75001” the user will enter 75001, or to get weather data from “Dallas, Texas” the user will enter

Dallas, Texas. The program will also work for locations outside of the United States such as London, United Kingdom.

The Max and Min temperature for 15 days will be displayed and a different message will be displayed depending on the temperatures of that day.

1. Program (Input/ Output) Specification

The input for the program must be a valid zip code, an invalid zip code will throw an “Bad response status code: 400.”

Error as shown in Program Testing. The user also has the option to input the city and country or city and state.

The desired output will display, a welcome message with the user’s username, a string of where the user is looking

up data from and finally the weather data which includes the Date, MaxTemp, MinTemp, Precip and a suggestion on

what to wear for specific days.

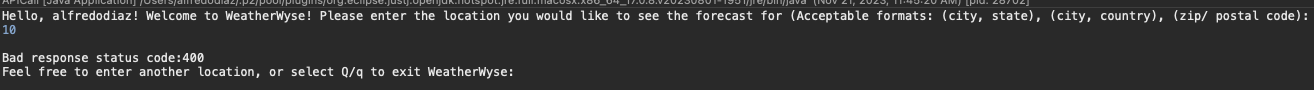
 *User welcome message*

Chapter Two

1. Program Testing

A screen shot of a computer

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** *Valid zip code Input*

*Invalid zip code input*

*A black screen with white text

Description automatically generated*

*Valid city, country input*

A screenshot of a computer

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*Displaying a certain message depending on the day’s temperature*

1. Program Weakness

Our programs main weakness is that whenever we enter another location for weather data, the program displays

Data using the previous user input. As we can see below, the user entered “Miami, Florida” but data from

**“Phoenix, Arizona” is being displayed.

*Program Weakness: Displaying wrong data*

1. Program Enhancement

Ideally, we would like to be able to take and display data from different cities but as displayed above that was

not the case. Another potential enhancement would have been the ability for the user to be able to store the

data they receive, and with this stored data we could of have displayed the cities in order using temperatures,

display cities only if they are above / under a certain temperature.

Chapter three

1. Conclusion

To conclude, this app uses a public API to display 15-day data inputted by the user which includes the minimum temperature, maximum temperature, precipitation and gives the user a recommendation on clothing based on those factors.

1. Reference

API Call Information sourced from https://www.visualcrossing.com/resources/documentation/weather-api/how-to-fetch-weather-forecast-data-from-a-restful-web-service-in-java/