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**Introduction**

People travel all the time, weather it is for work or to move residences. Sometimes, one may move into an area with climate they’re not accustomed to. Whether they move to a city in the south where it’s warmer or they move up north where it has more seasons. One of the biggest changes they must adjust to after moving is the weather and how to dress in that new climate. **Weather Dresser** will help people dress more appropriate to the weather based on the temperature. That way, when one visits NYC in the winter, they are can be assured they don’t look silly while keeping cozy or when one visits Miami in the same winter, they don’t overdress and have a heatstroke.

**Design of Application**

**Functional Description**

Weather dresser is for people that aren’t used to dressing appropriately in terms of the climate/temperature. The user will enter the temperature then the app will suggest how to dress for the weather. Also, instead of entering a specific temperature, the user may enter the month, via numbers, to get tips on how to generally dress for that month. That way, if the user doesn’t know the specific temperature or is planning a visit to somewhere in the future, they have an idea of what clothes to bring.

For each time they use the app, the system will be able to give a general guide of how to dress when a temperature entered falls or rises within a certain range. Users can plan their attire to tackle the day efficiently without being too bundled or too exposed to the elements.

**Architecture Specifications**

Technical Description

**Variables declared:** int answer, temp, answer2;

The user will enter the temperature of their location and the app will output some tips on how to dress.

The bounds for temperature are between -20 and 120. Outside these bounds are invalid inputs, or error. Within these bounds, intervals of temperatures are used to distinguish different ensembles. The user may also enter the month rather than the temperature. This is all managed by if-then statements and a switch case.

**Tools & Resources used for Development & Programming**

**Implementation Details**

The HLL I’m planning to use for the app is C++ using the <iostream> library. The Hardware and operating system is Desktop(Windows). The IDE and compiler used was Dev-C++ because it’s the only one I know how to use. For the report’s diagrams, I used an online diagram maker named Creately.

**Test Cases**

Normal case:

Option [1] & Option [2] Tells you how to dress for that temperature/month.

Boundary and Error:

Option [1] & Option [2] Prompts the user to enter a valid input.

See Appendix for Snapshots.

**Further Work, Extensions and Generalizations**

Currently, **Weather Dresser** is only for New York’s climate. In the future, I’d like to expand the areas covered by the application for more cities and states. Also, I’d like to have more variance of outfit suggestions for the different temperature bounds. That way, more people would be interested in the app as not only would it have a functional purpose but a fashion one. People would be able to seeming-less blend into the crowd of the visited location because the app would recommend clothing that the residents usually wear. The app is only in Fahrenheit, it could also have a Celsius mode for metric system users.

**Summary and Conclusions**

**Weather Dresser** is an app that will help users dress more suitable for their location’s climate. This will the user transition easier into the new weather’s location without being exposed to the harsh elements. It can also help people plan what to pack when visiting a place (currently only NY) if they know that location’s climate. It could use a lot more work in the future to be more polished.

**Acknowledgement & References**

Creately – used to make diagram

Aunt Marcia – inspired me to make this app as she visited me during the semester and had issues adjusting to the colder weather.