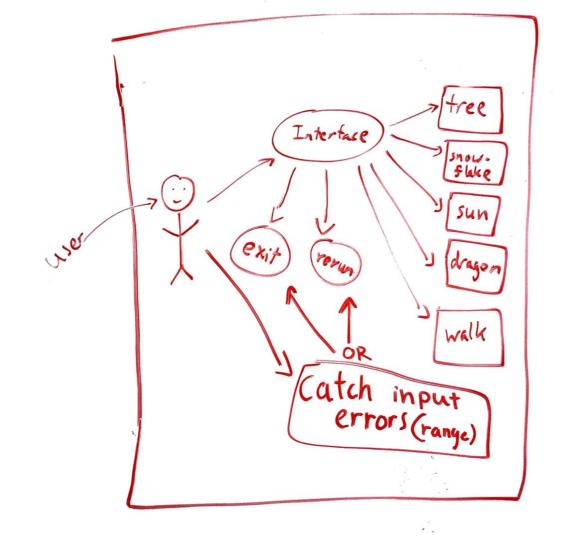
Fractal Art

The Italians (Ben Berube, Giacomo Radaelli, Sara Vanaki)

Showcase a variety of fractal images by utilizing object-oriented program design

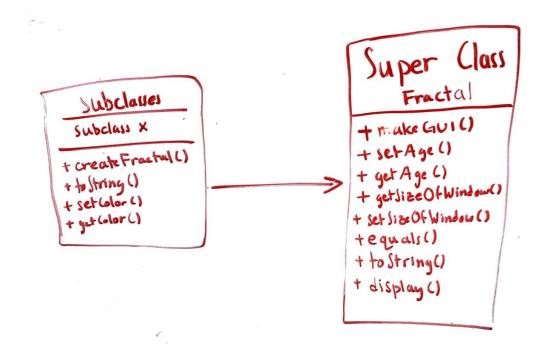
Use Case

- We are showcasing the actress "user" interacting with the interface
- The user chooses between
 7 options (tree, snowflake, sun, dragon, walk, exit, rerun)
- If user chooses options out of range, input error will be caught and prompt the user to try again



UML

- This UML documents the relationship between parent and child class in our O-O system
- The parent class handles the construction/simulation of the GUI, as well as defines abstract classes
- The child class handles the creation of a specific fractal piece, and identifies particular instance variables such as **color**



Agile Product Backlog

- Key features
 - Fractals being properly displayed
 - Unique designs for each subclass
 - Implements OOP for efficient code
- Plan(now 11/7/2021) (Priority #1)
 - Writing up our presentation
 - Finalizing our methods and different fractals we want to use
 - Building project timeline
- Build(11/7/2021 11/21/2021) (Priority #2)
 - Write the code for our fractals
 - Need to make parent class and subclasses
 - Debugging before moving to the next class

- Test(11/21/2021 12/05/2021) (Priority #3)
 - Trying out different colors to see which one is aesthetically pleasing
 - Trying it with other students to see what other fractal ideas they may have
 - Checking for any bugs or ways to improve for the next iteration
- Review(12/05/2021 12/17/2021) (Priority #4)
 - More of our checks in each class
 - Optimizing our code
 - Asking for more feedback from professor and areas of improvement

User asked us to create a fractal program in order to display their top 5 favorite pieces of art. User also wants to specify the color and age of the fractal. Then wants the options to rerun or exit the program.

Mockup Design

Welcome to our fractal art program! Please select your desired , Mage below: 1. Tree 2. Snowflake S. Sun 4. Dragon 5. Walk 6. Exit Please Sclect desired age and color of your ___ fractal: Age: (ip#) (olor: (input)

Ex. Fractal

Interface

Ex. GUI