# Application Design Activity: Star Rating App

The goal of this activity is to walk you (or a group of people) through the “big picture” of the program, to the “little picture” of implementing each function making up the program. While this process may seem tedious at first, know you are training your mind to look at these problems, and it will help tremendously when applications get very large.

## Scenario

Your client has hired you to update the Star Rating Application. You now have a better understanding of functions and would like to focus on designing the application to make use of functional code. Your hope is by using good design now, you will have minimal updates later.

## Product Specifications

Your client wants a star rating application that lets the client enter in both movie and a rating. The application will keep track of both movies and ratings, and upon request will print out all the movies entered along with their associated stars. They have provided you with the sample interface with output.

What would you like to do (add, list, exit)? add

Enter a movie: V

Enter a rating 1-5: 5

What would you like to do (add, list, exit)? add

Enter a movie: Princess Bride

Enter a rating 1-5: 100

What would you like to do (add, list, exit)? add

Enter a movie: Jurassic Shark

Enter a rating 1-5: 1

What would you like to do (add, list, exit)? Add

Enter a movie: Star Wars Christmas Special

Enter a rating 1-5: 2

What would you like to do (add, list, exit)? list

\*\*\*\*\* V

\*\*\*\*\* Princess Bride

\* Jurassic Shark

\*\* Star Wars Christmas Special

What would you like to do (add, list, exit)? exit

Your client has added the following constraints

* Add, list, exit – words will be exact, but case shouldn’t matter. As such, they can enter Add, ADD, add – and all will work
* Any other word will just be ignored printing the menu again.
* Like before, anything above the lowest number of stars (1) and the highest (5) will be moved to the lowest/highest.
* You can safely assume the client will enter numbers correctly (no need to error check)
* Partial numbers (1.5) are valid and will be rounded down.
* You don’t need to store the movies separately (you can just store it as a string separated by \n)
  + Additionally, trailing spaces/blank lines will be ignored
* While the stars are padded to be maximum + 2, you are not required to follow that spacing.
  + You are required to start with the stars and have at least two spaces after the star.
  + If you feel like a \*\*challenge\*\* you can look at [Python f-string cheat sheet (fstring.help)](https://fstring.help/cheat/)