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417 Expectation Failed  
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Intro to Programming Java  
Ed Taylor

Production Release, 5/24/21  
Version 1.0.0

Dependency on the Resources Folder

## ReadMe

### **Program Purpose:**

Bob's Kitchen is a game where players try to guess what Bob's secret recipes are by seeing an image of his dishes then recreating them. When they recreate the dish they will be scored on how they did and be given part of the 9 digit code to his secret vault. When players enter the vault they have beaten the game.

### **How to Play:**

Select a level then choose the dish you are trying to make. Then select your ingredients to make the dish. After picking your ingredients, you can make sure you selected the right ingredients before submitting for grading. Once the dish is graded, you'll get a score on how accurate it is compared to the secret recipe and 3 digits of Bob's vault code. You can use the passcode to unlock Bob's vault and find the treasure inside and become a culinary master!

### **Version History:**

**v0.0.1** - GUI was introduced for the Sandwich Level. The home page acts as a directory for levels.

**v0.0.3** - User selected deactivates when the page is reloaded. The Sandwich Condiments window is completed and multi-line JLabels are now implemented.

**v0.0.4** - Sandwich Scorer is introduced. Inputs are not functional.

**v0.0.5** - Sandwich level is now functional. Scorer inputs are implemented.

**v0.0.6** - GUI for the Sandwich level is finalized, Images are pending. Drop down menus are functional with updating images. Scorer is connected to GUI inputs.

**v0.0.7** - Home window is completely reformatted, Scorer is expanded to all levels. CardLayout is experimented further for the single frame program.

**v0.0.8** - Pizza Level is completed and connected to the scorer. Sandwich Level is completely implemented. Easter eggs have been planted. The Visual score window is now active. Scorer includes pizza grader for level 2. All images are now cropped properly for formatting.

**v0.0.9** - Cake and Pho levels are added. GUI is cleaned and scorer is connected to those new levels

**v1.0.0** - Documentation was added throughout the code.

### **Target User Profile:**

This game is intended for high school students who are interested in cooking and food. It is a fun game for those who really enjoy or are interested in food!

### **Feature List:**

- A clean and easy to use home page with a help window.
- Confirmations before playing each level/dish
- Clearly labeled options for user choices and inputs
- User options are simple and easy to select
- Submit page provides a summary of the user selected options
- Scorer can grade every dish.

**Class List:** Main, Home, Help, SandwichStart, SandwichVeggies, SandwichMeat, Sandwich condiments, SandwichFinish, PizzaStyle, PizzaDough, PizzaToppings, PizzaFinish, PhoStyle, PhoStock, PhoMeat, PhoNoodles, PhoToppings, PhoFinish, Scorer, ScoreWindow, Bob's Vault, Gameover

### **Team Responsibility:**

Kevin Choi - Made all the images needed to run the program. Made a label for each image (if needed) and found images appropriate for the program to run smoothly. Research color and themes for the program. Designed and implemented the game engine. Helped With the Presentation. Coded the Scorer and Main class.

Kamran Hussain - Implemented throughout the program, specifically the graphics in the sandwich level. Took the sketches from Will and put them into coded classes primarily graphics. Began work on developing the game engine with Kevin and Will, scoring system is implemented when the user inputs are sent to the scorer. Working on adapting code to one frame with refreshing panels. Helped with the Presentation. Edited the video.

William Le: Listed Fields, Methods, and Constructors in each class via comments. Drew out by hand and made a UML Diagram for the program including arrows that show hierarchy and class paths. I came up with the idea of a cooking game including the game engine (how the game works), the various dishes that we will soon have, and I drew out some sketches on what the game should look like. Helped with the game engine. Scoring system is now applicable on the gui and scorer is now applicable to all levels of the game. Helped with connecting the gui and scoring system for the pho classes.

### **Known Bugs/Workarounds:**

- Single Frame implementation is not fully implemented
- Redoing a level in a single run adds the previous score to the new score
- Colors are not optimized for Mac users, so visibility of buttons may not be clear.
- Formatting may be off on Mac.
- Those with low resolution displays may have trouble viewing all content in proper format
- The Pho toppings summary does not display all the selected toppings

### **Key Learnings:**

- Learned how to implement graphics spanning multiple types of input fields across multiple fields.
- Learned how to use Github for fast file transfers and collaboration
- Learned how to create images based off written request

### **Credit List:**

Referenced the uml diagram from the final project, and applied what we learned about class hierarchies and “depends on” relationships between the class to draw out the class paths.

## Oracle Java Documentation API

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