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CSCI 4448 – OOAD

**Project 6: Semester Project – Final Submission**

Title: Cat Cafe

Final State of the System Statement:

Cat Cafe is a time management/puzzle/action game that allows the player to not only play as a barista, but also a cat taker. Our team was able to implement a functioning barista player that is able to make different kinds of drinks, as well as a menu screen, multiple levels, and customer spawning. Unfortunately, due to time constraints, scope had to be reduced and the implementation for the cats in the cafe were left unimplemented, along with their effects on the customers patience levels – patience levels would directly affect their order satisfaction. There are graphics, as well as code skeletons and ideas to create that functionality in the future. The time constraints were heavily influenced by the change in framework (from LibGDX to SceneBuilder and JavaFX). Based on the deliverable for project 5, the scope was reduced to focus on the barista and customer control, with project 6 giving Cat Cafe a good starting point. Although the cat features were left unimplemented, the main game logic was thoroughly designed and allowed our team to develop a functioning game.

Final Class Diagram and Comparison Statement

Proj 5:

https://drive.google.com/file/d/1UprR90nSky5Jx6Zh5AHeD6hG\_56ADoq\_/view?usp=sharing

Proj 6:

https://drive.google.com/file/d/1oDH4mUGjsP3YtNddUwC2c717eIq4D9AR/view?usp=sharing

Proj 7:

https://drive.google.com/file/d/1JZDW87Md1MapwaHyrA729BE0SCV\_P-ud/view?usp=sharing

* Highlight and document in that diagram any patterns that were included (in whole or part) in your design
* Include the class diagram submitted in Project 5, and use it to show what changed in your system from that point into the final submission
* Support the diagrams with a written paragraph identifying key changes in your system since your design/work was submitted in Projects 5 and 6

Third-Party code vs. Original code Statement:

There were multiple sources that allowed Cat Cafe’s creation. Tutorials allowed us to learn more about Aseprite – graphics and animation – JavaFX and SceneBuilder. We worked through multiple tutorials and utilized many resources to build Cat Cafe. Sources of third-party code are attached in comments throughout the code, as well as included in the list below:

* [https://edencoding.com/check-whats-been-clicked/#:~:text=When%20a%20button%20is%20clicked,when%20the%20button%20was%20created](https://edencoding.com/check-whats-been-clicked/" \l ":~:text=When a button is clicked,when the button was created)
* https://www.youtube.com/watch?v=T3NlWMzPyXM&ab\_channel=ProgrammingKnowledge
* https://www.youtube.com/watch?v=WDaXpDtYk3E&list=PLrzWQu7Ajpi26jZvP8JhEJgFPFEj\_fojO&ab\_channel=Randomcode
* https://youtu.be/AYeFmhQALqM
* https://mkyong.com/java/how-to-write-an-image-to-file-imageio/
* https://stackoverflow.com/questions/3489543/how-to-call-a-method-with-a-separate-thread-in-java
* https://www.tabnine.com/code/java/methods/javafx.scene.image.ImageView/setVisible
* https://stackoverflow.com/questions/3489543/how-to-call-a-method-with-a-separate-thread-in-java
* https://www.demo2s.com/java/javafx-pathtransition-setonfinished-eventhandler-actionevent-value.html
* https://stackoverflow.com/questions/37752207/javafx-wait-for-animation-method-to-finish-before-going-to-next-method
* https://stackoverflow.com/questions/17850191/why-am-i-getting-java-lang-illegalstateexception-not-on-fx-application-thread
* https://www.tutorialspoint.com/find-minimum-element-of-hashset-in-java#:~:text=To%20get%20the%20minimum%20element,min()%20method.
* https://www.geeksforgeeks.org/double-compare-method-in-java-with-examples/#:~:text=The%20compare()%20method%20of,returned%20by%20the%20function%20call.
* https://www.tabnine.com/code/java/methods/javafx.scene.image.ImageView/setVisible
* https://attacomsian.com/blog/java-get-unix-timestamp
* https://stackoverflow.com/questions/767759/occurrences-of-substring-in-a-string
* https://stackoverflow.com/questions/3489543/how-to-call-a-method-with-a-separate-thread-in-java
* https://stackoverflow.com/questions/3489543/how-to-call-a-method-with-a-separate-thread-in-jav
* https://stackoverflow.com/questions/1972392/pick-a-random-value-from-an-enum
* https://www.baeldung.com/java-initialize-hashmap

Statement on the OOAD process for your overall Semester Project:

List three key design process elements or issues (positive or negative) that your team experienced in your analysis and design of the OO semester project

Code Submission – GitHub Repository:

<https://github.com/ramirez-gabriela27/CatCafe>

All code and artwork is originally created by the four team members of Cat Cafe (unless otherwise denoted). The GitHub repository includes all of the code under the `game` directory, artwork created to inspire the game assets under `Graphics` as well as all project deliverables. Within every directory, there is a README with information on the directory, and all code is commented and cited properly.

Demonstration – recorded demo video:

\*\*link here to google drive video

Project demo presented by all team members of Cat Cafe and edited by Anjala.