

Refactoring Plan – April 6, 2023

This document outlines the refactoring plan for our project, highlighting the key problems our team have encountered in the code/database and the proposed solutions.

Problem 1: Repetitive Code

While looking at our final code we have concluded that there is a lot of repetitive code in the program. To fix that in the future we could create more reusable functions, classes to reduce the repeated code.

Problem 2: Testing Too Late

While going over our last submission we concluded that we have made our Test classes way to late but instead next time when we implement any java class, we should create test class to test out its functionality right away instead of testing everything at the end, before the problem becomes too big to handle.

Problem 3: Image management

From the first iteration we have realized that working with images in java isn't the easiest task. We have come up to a problem that was way too big for us to fix. The problem was showing images in the Jtable and include the images inside the database. Images could be tricky, to fix that in future we should prioritize a big task like that more or come up with a creative solution that will replace the image.

Problem 4: Long Methods

Some of our methods were too long and hard to understand, making them harder for use to maintain to future updates. To fix that as a programmer we should apply the single reasonability principle and that will help us break down the methods to smaller methods that have on responsibility and easier to read, as well as easier maintenance.