Mixology Application

Alexander Coll (acoll@purdue.edu), Matthew Fouts (foutsm@purdue.edu), John Tyler Preston (prestoj@purdue.edu), Nick Zenobi (nzenobi@purdue.edu)

Problem Statement:

No drink beats a well mixed cocktail at your favorite bar; however, what if you don't want to leave your house or pay $10 for drinks that you can make yourself for the fraction of the cost? You could mix your own drinks at home, but you're not a bartender: you don't know what drinks you can make with what you have in your kitchen; our mixology app aims to solve that problem: give it a list of ingredients and Mixbook will give you detailed recipes using only those ingredients. Currently there are a multitude of mixology apps that just solely list recipes. Our application serves to create a social media where users can share recipes and review drinks through a simple user interface.

Project Objectives:

- Improve and extend our existing application that shows how to make various drinks with the ingredients based on a user's current ingredients
- Optimize current functionality and enhance the user interface and experience throughout all existing features, such as adding pagination, images, more advanced filtering/sorting, account locking/similar security features, more ingredients, caching to a degree, database connection pooling, and much more
- Add new features in addition to improving and extending existing features that enhance the social media aspects of our social recipe application, such as user profiles, push notifications, and user awards/badges (i.e. a badge for submitting 100 recipes), and many more
- Improve our existing secure, scalable, and modular three tier architecture
- Reimagine the concept of a cocktail recipe utility

Stakeholders:

- **Users**: Anyone who enjoys preparing their own cocktails
- **Developers**: Alexander Coll, Matthew Fouts, John Tyler Preston, Nicholas Zenobi
- **Project Owners**: Alexander Coll, Matthew Fouts, John Tyler Preston, Nicholas Zenobi
- **Project Manager**: John Tyler Preston

Deliverables:

- An improved Android application for finding, reviewing, and sharing drink recipes
- An improved MySQL database that stores a variety of pertinent persistent information
- An improved, scalable AWS infrastructure designed to be both performant and secure

- An improved Java 8-based backend running on an Apache Tomcat 8 web server that utilizes the Spring MVC framework and that includes the use of dependencies such as Jackson, Hibernate, Spring Security, Log4j, and JJWT among many other dependencies
- An improved frontend designed to be both aesthetically pleasing and interactive

CS307 Projects:

- Alexander Coll (Private Repo I can't link): Alfred is a mobile Android application which provides cheap, on-demand cleaning services for students and the general public. Cleaning services for apartments usually cost upwards of $100/hr, which is too expensive for college students who want to keep their damage deposit at the end of a lease or just generally want their place cleaned up. Our service matches people who want to clean rooms with people who need their apartment cleaned for a reasonable rate. This utilizes a MySQL database with a Node.js server, and a Ionic front end application.
- Matthew Fouts (Private Repo I can't link): Simplease is a mobile application for both Android and iOS that allows easy apartment searching and renting. Users can find an apartment, schedule tours, and request to be a tenant. It also allows you to handle communications with your landlord such as maintenance requests and package notifications. When a tenant is done and ready to move out the paperwork is all handled through the app. The purpose of the app is to centralize all parts of the renting process and get rid of the leg work that is involved in renting an apartment. It was created using React Native.
- John Tyler Preston (https://github.com/jtpreston/Activitize): Activitize is an Android mobile application that allows you to easily plan group events, including features like commenting on the event, or polling for event options. It facilitates group event planning by providing all of the features needed in one coherent manner, as opposed to having to use several different applications to accomplish the same task. It integrates with other social media such as Facebook to provide a seamless experience. Activitize utilized a three tier architecture and utilized AWS to provide the various infrastructure needed to support the platform, such as the MySQL database and the Apache Tomcat 8 web server needed to run the Java 8 backend.
- Nicholas Zenobi (Private Repo I can't link): In my 307 project my team and I built a social media app for Purdue. In the app it allowed you to create a profile and add your friends to your profile. It also allowed you to create groups with your friends where you could chat and create polls to plan a night's activity. It also included a page for each of the bars or hangouts at Purdue where each bar could advertise their specials for that night. Users could also comment on each bar leaving reviews about their time there. Users could also see how many other users were at a certain bar as well.