Innopolis University, 2020 [S20] Software Systems Design

Madina Gafarova
Andrey Volkov
Gleb Petrakov
Aliya Zagidullina
Valeriya Vertash

M.gafarova@innopolis.ru
an.volkov@innopolis.ru
g.petrakov@innopolis.ru
a.zagidullina@innopolis.ru
v.vertash@innopolis.ru

Assignment 2 Report

Project context

The chosen project is #3 "iPad Restaurant Application". The chosen pattern is the builder pattern.

In our improvised burger restaurant, there are only burgers and cold drinks available, but you may construct your own burger (different buns, sauces, cheese types, etc.) or drink. Once you are done with creating your own type of burger, it may be sent to the kitchen for our chef to make it. If you are not sure what to choose, we have some presets for you to choose between.

How to run

Use Gradle for run tests.

./gradlew clean test

Implementation details

Class structure

Since we are the restaurant, we must have a menu with respective menu items within. They are represented by classes Menu and MenuItem respectively. MenuItem is immutable once created with MenuItemBuilder.

Two possible menu position types are represented with <code>Burger</code> and <code>ColdDrink</code> classes, extended from <code>MenuItem</code>. You must use <code>BurgerBuilder</code> and <code>ColdDrinkBuilder</code> to create <code>Burger</code> or <code>ColdDrink</code> for them to become immutable parts of your order.

UML Diagram

