

# Assessment 1 – Windows Apps

## 1. Purpose

The purpose of this assessment is to test how well you are able to integrate the concepts that you have learned in SU1 and SU2 into a basic Windows Application.

## 2. Scenario

BeelteCaf is a bustling coffee shop where the smell of fresh-brewed coffee often fills the air. The walls are adorned with colorful murals, blackboards listing the day's specials, and shelves stocked with coffee beans and brewing equipment. Soft lighting bathes the cozy seating areas, with comfortable armchairs and couches arranged in intimate clusters. The sound of gentle jazz music fills the room, providing a pleasant background ambiance. Behind the counter, baristas clad in aprons and hats work busily, expertly crafting each drink with care and precision. The aroma of fresh-baked pastries mingles with the rich scent of coffee, tempting customers to indulge in a sweet treat. I guess one can say that BeelteCaf feels like a warm and inviting oasis. A place where people can come together and share a moment of relaxation and connection over a delicious cup of coffee. It is no wonder that the shop is constantly filled with customers of all ages sipping their drinks and chatting with friends.

The coffee shop wants to ensure they maintain high client satisfaction. It is for this reason that the shop decided to digitalize its ordering and bookkeeping. In this regard, the shop approached you with the following specifications:

- The application should initiate with a professional welcome screen.
- Clients should be able to easily order a variety of coffee, tea, pastries, and sandwiches. (hint, clients do not like a bunch of pop-up screens – MDIs might help get around this).
- Clients should also be able to review their selection and remove an item from their list before they submit their order.
- Once the clients submitted their order, they should be presented with a receipt screen – all orders should be captured in a separate table.
- For bookkeeping purposes, BeelteCaf prefers having a separate table for all the drinks and food. The application should allow staff to log into the system/application where they can see accounting information such as how many of what was sold, at what time, best-selling items, profit, etc.
- Staff members should be allowed to update the database when an item is sold out, when there are new specials, when a new coffee is introduced, and when an item is no longer being served.
- Staff said they would also like to have the flexibility to generate custom reports and filter the database.

*Don't let BeetleCaf down, they believe in you.*

## General requirements

This assessment will be mainly graded according to how well you address the required functionality, but marks will be deducted if good programming practices and user interface design principles are not adhered to.

## Submission

You may work in teams of 2. As with practicals, compress your **entire** VS project into a .zip file and upload it to eFundi under this assessment. Only one of the team members needs to submit – just include the team members' names and student numbers in your comments and inline submission. However, should your project be too large and/or you encounter any other upload errors, upload only the relevant \*.cs files along with screenshots of your graphical user interface (GUI) for each of form. Also include comments throughout your project/code.