

TECHNICAL DESIGN DOCUMENT
COFFEE SHOP RECEIPT

CHARLENE'S COFFEE CORNER

NOVEMBER 20TH 2020



TABLE OF CONTENTS

INTRODUCTION 3

PRODUCT CATALOG..... 4

USER INTERFACE..... 5

DATA MODEL 6

OUTPUT 7



INTRODUCTION

This Technical Design has been developed for Charlene' Coffe Corner new system for generating customer receipts.

The aim of the application is to apply Charlene' Coffe Corner's product offering including its promotions and special discounts.



PRODUCT CATALOG

The product offering of Charlene's Coffee Corner will feed a product catalog with the following data:

Offering	Price	Type (product / extra)	Content (Beverage / Snack)	Entry Code
Coffee Small	2,50	P	B	CS
Coffee Medium	3,00	P	B	CM
Coffee large	3,50	P	B	CL
Bacon Roll	4,50	P	S	BR
Freshly squeezed orange juice (0.25l)	3,95	P		FSOJ
Extra Milk	0,30	E		EM
Foamed Milk	0,50	E		FM
Special roast coffee	0,50	E		SR

This product catalog is designed to be expanded in the future with new product offerings.

The offerings of the product catalog will be store according to the following data structure:

- Offering: detailed description of the offering. This content is the base for the receipt output lines. For the sake of simplicity in the data input stage there is one product offer for each coffee size: small, medium and large.
- Price: offering price.
- Type: indicates if the offering is a product or and extra.
- Content: indicates if the offering is beverage or a snack.
- Entry code: code that must be used to enter the customer selection in the application.

USER INTERFACE

As stated in the use case document no graphical user interface must be provided for entering the order data.

The user of the application will provide the order data through codes that will be assigned to the different product offers. These codes have to be entered in the command prompt when executing the application. The number of stamps of the customer's stamp card must be entered alongside the order detail.

The following is the format that will be used to enter the data into the application:

A sequence of offering codes with optional extras separated with blank spaces:

[<Offering Code>[,<Extra Code>...]] [<SPACE> [<Offering Code>[,<Extra Code>...]]]...

- Example:

To order one Coffee Small and one Coffee Large with Foamed Milk and one Bacon Roll the input data would be:

CS CL,FM BR

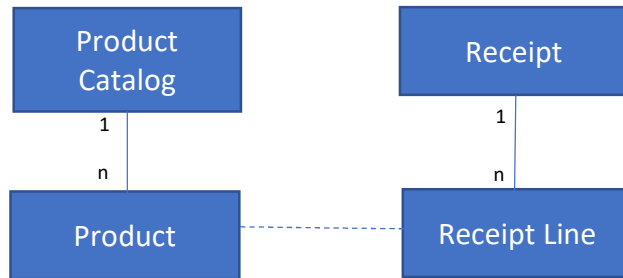
In case the customer provides his stamp card the number of stamps must be entered as one more parameter.

- Example:

Customer with a stamp card with 4 stamps who orders one Coffee Small and one Coffee Large with Foamed Milk and one Bacon Roll the input data would be:

4 CS CL,FM BR

DATA MODEL



OUTPUT

The output of the application is the generated receipt.
The receipt must have the following format:

```
Charlene's Coffee Corner

DATE TIME

OFFERING AND EXTRAS DESCRIPTION PRICE CHF
OFFERING AND EXTRAS DESCRIPTION PRICE CHF
OFFERING AND EXTRAS DESCRIPTION PRICE CHF
OFFERING AND EXTRAS DESCRIPTION PRICE CHF
OFFERING AND EXTRAS DESCRIPTION PRICE CHF
OFFERING AND EXTRAS DESCRIPTION PRICE CHF

Total amount... TOTAL AMOUNT CHF
```



TIER ARCHITECTURE

