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| Fontys University of Applied Science |
| Project Plan  Bogdan Calinescu  Synthesis Assignment, Final version |

1 Introduction

This document represents the Project Plan for the final individual project (synthesis) in Semester 2. I have been tasked to aid the company RobertHeijn with improving their business processes. More exactly, I will be developing for them a software solution that will include a software web application being customer oriented, and additionally a desktop application for their employees.

2 Problem Description

At present time, there is no efficient solution to help the customer with ordering online goods. This is a major problem in the company's business process, because nowadays the need to make online purchases has become essential. It's either for convenience or necessity, but more and more clients prefer to order groceries from the comfort of their home instead of going to the physical shops. Moreover, the ability to order goods online and just have them available at a pickup location saves the customer a lot of time, so it is also crucial for the company that they can enable the clients to shop in this manner.

3 Plan of approach(see Schedule section)

The problem will be approached in an iterative manner. The application development process will be divided into sections (feature-wise). If any features cannot be completed due to a lack of time, the customer will be notified as soon as possible.

1. Deliverables

These are the deliverables that will be provided in the next six weeks:

● Software Solution

● A database to keep track of all Users, order and product information.

● Staff-only desktop application

● A web application for Customers

● URS

● Test Plan

● Test Report

● Project Plan

The URS document contains more information.

1. Constrains

C# will be the programming language used for the desktop application. The web application's will be built using ASP.NET Core Razor Pages. For the database, MySQL will be utilized.

1. Schedule
2. Weeks 12 & 13: Creating documentation and drafting initial plans for development
   1. Week 12: Creation of the first version of project plan and URS
   2. Week 13: Receive feedback and implement it in the project plan and URS
3. Weeks 13 - 15: Implementing the software solution
   1. Week 13: First version of UML and Implemented crud functionalities for users in both applications (web & desktop)
   2. Week 14: Implementation of a feature in the web application where the customer can add products to his cart and order those specific items, on the desktop application the employees

can add items to the catalog and can see the orders status and they can update them.

1. Weeks 15 - 16: Wrapping up development, final tests, deployment

a. Week 15: Implementation of bonus card functionality

b. Week 16: Make unit taste and make the application clean and improve code quality.

1. Week 17 or 18: Presentation
   1. Week 17 or 18: Present my work and receive feedback.

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| Tasks | Time (In hours) | Done |
| Create URS | 1 | x |
| Create project plan | 1 | x |
| Create test plan |  | x |
| Create basic UML class diagram | 1 | x |
| Create first database design | 2 | x |
| Create form design | 3 | x |
| Implement login functionality | 4 | x |
| Implement account crud | 6 | x |
| Implement product management | 8 | x |
| Implement cart management | 8 | x |
| Implement catalogue management | 10 | x |
| Implement order functionality | 10 | x |
| Implement Bonus Card | 8 | x |
| Implement the using of bonus point | 8 | x |
| Implement order view | 5 | x |
| Deploy website | 30 min | x |
| Write unit tests | 12 | x |

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| Week | Tasks |
| 11-12 | Create project plan  Create URS |
| 13 | Update URS  Update project plan  Create basic UML class diagram  Create first database design  Create test plan |
| 14 | Create website design  Create form design  Implement login functionality  Implement account crud  Implement product management  Implement catalogue management  Implement cart management  Create test plan |
| 15 | Implement bonus card  Implement bonus card point functionality  Implement order functionality  Implement order view  Write unit tests |
| 16 | Update unit tests  Fix errors , bugs, clean up the code  Deploy website |