



**Group Name:** Artichoke

**Proces Report:** Waterfall

**Location:** Fontys University of Applied Sciences

**Tutor:** Gupta Roopali

**Members:**

- Boaz Goldsteen
- Dave La Gordt Dillie: 434661
- Mary Joseph: 3814505
- Sebastian Bokkestijn: 437602

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# Introduction

In this first phase of the Waterfall project, it was demanded by the group to deliver a management application. During the project, as a group, we have faced challenges and learning curves along the way and through all of this as an end result, we gained experience. In this report will look into the work distribution per deliverables for each group member, a reflection of phase one of the project, and a reflection on the waterfall method.

## Work Division

- Project Plan
  - Boaz
    - Problem Description
    - Project Goal
  - David
    - Current Situation
    - Team
    - Client
  - Mary
    - Phasing
    - Problem description
    - Current situation
  - Sebastian
    - Introduction
    - Non-deliverables
    - Constraints
- UML
  - All group members discussed table class by table class
- Database design
  - David
    - Creating relationships between tables
    - Creating the credential and login form
  - Boaz
    - Reviewing the linkage
  - Sebastian
    - Creation of tables and relationship
  - Mary
    - Created tables and imposed Foreign key constraints

- URS
  - Boaz & David
    - UserCase
    - Functional Requirements
  - Mary
    - GUI
    - Agreement with Client
  - Sebastian
    - Wireframe
    - GUI
    - Introduction
  -
- Application functions
  - David
    - LoginManager Class
      - Open forms according to the employee's Role
      - Check for password and username match
    - Manager form
      - Scheduling
        - Check employee by name
        - Show
        - Edit
    - Administration form
      - Password and user Generator
      - Employee functionality
        - edit
    - Exception handling in all SQLS
  - Mary
    - Administration form
      - Department functionality
        - Add
        - Edit
        - Remove
        - Selection feature
      - Employee functionality
        - Add
        - Edit
        - Selection feature
    - Gui
      - Admin
      - Employee
      - Stock

- Manager
      - Login
    - Sign out functionality on all forms
  - Sebastian
    - Manager
      - Stock functionalities
        - Adding
        - Show current stock info
        - Edit
        - Delete
        - Request shelf restocking
        - Show Shortage of Stock Datagrid
        - Reordering stock
      - DataGrid selection feature
    - Employee form functionalities
      - Show the employee's corresponding schedule
      - Stock inventory modification
      - Restock request done button
- Test plan
  - David
    - Test Cases
    - Test Approach
  - Sebastian
    - Scope
    - Introduction
    - Test Environment
- Feedback
  - David, Mary, and Sebastian did test runs for the application of group 1.

## Personal Reflection

### Sebastian

The confidence on the project was great through the meetings so the mentally I would like to be replicated in future projects. I would also like to be as open-minded when sharing my ideas and listening to others so the project could please everybody and motivate them.

In the next phase, I would like to develop a better system of time management, in order to schedule a more ideal calendar for everybody that supports more feedback time. This could enable the group more to have time to help others in a different area of the project. I would be more active when it comes to balancing a schedule of my own with the group, to improve and with it improve the project.

### **Mary**

As an individual member of Artichoke group, I have learnt a lot from this project, it has helped me to know and understand the importance of working together, the importance of each member in a group and making decisions as a group and not making decisions based on one's personal opinions.

We had a rocky start as we had never done this before but through more meetings, and communication we worked a lot better during all other stages of development.

I have learned new skills from the other members and how to adapt to different situations and problems in programming. I have also learnt how to apply a more advanced way of writing code in C# using OOD

I hope for more improved teamwork in the next phase.

### **Dave**

Not knowing my team personally for the first 2/3 made it hard working as one but eventually, it clicked and overall a fun project to have had the chance to work on.

Also, having a model to use on the project (waterfall) is new and I think that it is a good experience to have for upcoming projects and the continuation of the media bazaar project. This project has taught me how to work with limited resources, such as time and a group member going ill and how I can give good results with my group despite the circumstances

## **Reflection on Waterfall**

## Strengths

- Simple and understandable to use
- Ideal for supporting less experienced project teams by giving them a chronological order to achieve deliverables.
- Easy to manage because each phase has well-defined deliverables.
- Helps you make exactly what the client had envisioned

## Weaknesses

- Problems are not identified until it reaches the testing phase, meaning that a not working software is only detectable until the late life cycle of the project.
- Not suitable for projects who are prone to constant changes.
- It is not Flexible enough, it dictates that each phase must be completed before the next phase.