Group Name: Artichoke

Proces Report: Iterative

Location: Fontys University of Applied Sciences

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Table of Contents

Introduction

In the iterative phase,we had 4 iterations that we divided into a period of three weeks each.
At each iteration,we held client meetings that were meant to receive functional requirements from the client.We had specific deliverables per iteration.
We also had weekly meetings with the tutor to get more feedback on our progress and improvement.
To ensure that we deliver all the requirements by the client,we divided specific tasks for specific iterations.
 In this report,we will look into the work distribution per deliverables for each group member, a reflection of the Agile phase of the project, and a reflection on the waterfall method.

Work Division

- Application functions
  - ## David
    Refactoring Back End
    - Database Layer
    - Logic Layer
    - Presentation Layer

    - LoginManager Class
      - Open forms according to the employee's Role
      - Check for password and username match
      - Change password and new user Form
    - Manager form
      - Scheduling
        - Manual scheduling
        - Automatic Scheduling Algorithm
    - Administration form
      - Password and username generator
      - Edit employee functionality

    - Exception handling in all SQLS
    - Gui
    - Website:Did Sql Queries
    - Website:Separating admin and employee classes

- ○ **Mary**

  Refactoring Back End
  - ■ Database Layer
  - ■ Logic Layer
  - ■ Presentation Layer
    - ● Department functionality
      - ○ Add
      - ○ Edit
      - ○ view

    - ● Employee functionality
      - ○ Add
      - ○ Edit
      - ○ view
      - ○ Selection feature
  - ■ Statistics Functionality
  - ■ Pdf Functionality
  - ■ Scheduling
    Automatic scheduling Algorithm
  - ■ Gui
  - ■ Sign out functionality on all forms
  - ■ UML
  - ■ website:Did Input validation for the admin and employee
  - ■ Website:Separating admin and employee classes and design

- ○ **Sebastian**

  Refactoring Back End
  - ■ Database Layer
  - ■ Logic Layer
  - ■ Presentation Layer
  - ■ Manager
    - ● Stock functionalities
      - ○ Adding
      - ○ Show current stock info
      - ○ Edit
      - ○ Delete
      - ○ Request shelf restocking
      - ○ Show Shortage of Stock Datagrid
      - ○ Reordering stock
    - ● Scheduling
      - ○ Automatic Scheduling Algorithm
    - ● DataGrid selection feature
  - ■ Employee form functionalities

- Show the employee's corresponding schedule
- Stock inventory modification
- Restock request done button
- Website:Did Adding,editing and showing employees
- Website:selecting specific columns to show

Personal Reflection

Mary

In the iterative phase I have learnt about efficient time management especially when there is much work to deliver in a short time.

We had quite a number of new deliverables and also refectoring our code to make it OOD compliant and time was an obstacle to tackle.Team work and communication was also a key aspect in this phase,making decisions, seeking help and as a group helping where necessary .

The iterative methodology was also more favourable and more effective in helping us deliver the specific requirements at each iteration.

Out of this phase,I have learnt more technical and soft skills, better than I had in the waterfall phase.

Sebastian

During this project I have learned more about efficiency. The amount of deliverables that was offered to the client was more than the waterfall phase. Since we were doing the project in parallel to our classes we could see how more efficient our solution could be to the clients demand. I feel that out of this experience I found that working with the Iterative methodology is more to my liking due to its organizational structure being more flexible than the waterfall model.

David

In the past 12 weeks I've learned about how important communication can be especially when we can't meet face to face for several weeks. Something that really helped when we entered the iterative phase was that we had already set clear requirements beforehand during the waterfall phase. One of the biggest challenges we faced because of the iterative phase is that we had a lot less time to design, analyse and plan ahead which is something we did during waterfall. However, with this came more time to develop and test.

Reflection about applying Iterative

Using the Iterative methodology was useful and necessary since the project was getting more complex. The nature of using the iterative approach enabled us to review and modify the code in order to identify further requirements. We noticed during testing when using the iterative approach the feedback on debugging time efficient and precise.

Difference from Iterative and Waterfall

Waterfall Model is a flow based model, in which we pass every phase once,and can not go back to that phase again. Its most eminent drawback is that if there is any change in requirements, we cannot make any changes to the requirement section.

The Iterative Model is somewhat similar to the waterfall model but herein are the main differences:

- In an iterative model less time is spent on documenting and more time is given for designing and implementation.
- In the iterative model we are building and improving the product step by step. Therefore, making it easy to track the defects at early stages.
- The ability to turn a source code into working software simply by compiling and linking it significantly reduces the time spent on an iteration.