A picture containing text, outdoor, night sky

Description automatically generated

Agile Soft

Client: MediaBazaar

Team: P. Cieślak, B. Calinescu, A. Andrei, P. Da Costa Ribeiro Ferreira

Fontys University of Applied Sciences

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# Client

Our client is Jupiter, a company which is setting up a retail store in the hardware industry. They are looking for a better way to manage their employees and their stock within their Media Bazaar store.

Their representative is Mariëlle Fransen.

Contact via mail: [m.fransen@fontys.nl](mailto:m.fransen@fontys.nl)

## Team

We are “Agile Soft”. A new software development startup founded by young software engineers. Our team consists of the following members:

* Senior colleague - Michiel Koehorst [m.koehorst@fontys.nl](mailto:m.koehorst@fontys.nl)
* Team leader - Piotr Cieślak  [p.cieslak@student.fontys.nl](mailto:p.cieslak@student.fontys.nl)
* Bogdan Calincescu [b.calincescu@student.fontys.nl](mailto:b.calincescu@student.fontys.nl)
* Alexandru Andrei [a.alexandru@student.fontys.nl](mailto:a.alexandru@student.fontys.nl)
* Pedro Da Costa Ribeiro Ferreira Da Silva [p.dacostaribeiroferreiradasilva@student.fontys.nl](mailto:p.dacostaribeiroferreiradasilva@student.fontys.nl)

# Introduction

Our client Media Bazaar (a daughter company of Jupiter) is planning to open their very first shop in Eindhoven.

Because the administration is the backbone that manages all aspects of the company, the management board would like to have a solution that facilitates administrative tasks for the new shop.

# Client and situation description

The Jupiter company is setting up a retail store in the hardware industry. They are looking for a better way to manage their employees and stock within their Media Bazaar store.

They are looking for a new custom–made solution. They do not have any software system yet, so we, as a team, will build it from scratch. We are aware that there are 5 other teams that are working on the same solution.

# Problem description

The main concern of Media Bazaar’s management is about keeping track of the employees and the products. Jupiter’s administration has a lot of trouble managing employees and stock. Jupiter stores are using online calendars or excel sheets, and the problem there is that it is too detailed and unreliable. The personnel also can’t easily access the information and change it or view any statistics about either the employees or the product.

Below is a list of current problems the client has that they expect to tackle with the new solution:

# Waterfall phase

## Scheduling:

* The manager should be able to make basic schedules manually.
* Employees should be able to see their schedule.

## Managing product information:

* Stock managers should be able to perform operations on products.
  + Creating new products
  + See an overview of the existing products
  + Update product information
  + Deleting outdated products
* Depo employees should be able to see re-shelving request and confirm them.

## Managing employee information:

* HR should be able to create, edit and remove employees.
* Managers should be able to see contact details for employees
* HR should be able to see the contract history of the employee.
* HR should be able to see total hours worked and stats about the employees and working information.

### Managing stock information:

* Stock managers and depo workers should be able to see/ modify stock information. (New requirement)

# Agile phase

## Iteration 1

### Scheduling:

* The manager should be able to generate schedules automatically and manually.
* Employees should be able to see their schedule.

### Improve managing employee information:

* HR should be able to create, edit and remove employees.
* Managers should be able to see details for employees the employees in their department.
* Method for password changing after an employee account was created

### Improve security of the application:

* Data protection should be added to the credentials.
* Data validation should be added to make sure data is not corrupt.

# Project goal

Our goal is to develop a bug-free and reliable system for managing Media Bazaar’s problems like time-consuming scheduling and re-shelving.

# Deliverables

We are going to deliver a Windows Forms Application and a ASP.NET web application. They together make a management system for workers and managers.

# Non-deliverables

The client requested a few things that we are not going to deliver:

* We will not be doing any training for managing the system.
* Maintenance of the system is not included.

# Constraints

The only limitation we have for this project is that it must be finished in 18 weeks.

* To create our web application, we will be using a framework called .NET.
* We have two important deadlines, after 6 and 18 weeks of work.

# Phasing

1. Week 1
   1. Interview the client
   2. Make a project plan
2. Week 2
   1. Improve the plan based on feedback
   2. Create User Requirements Specifications
3. Week 3
   1. Improve URS based on feedback
   2. Create UML class diagram
4. Week 4
   1. Implement Software solution
5. Week 5
   1. Implement software solution
   2. Create a test plan
   3. Send the test plan and binaries to peers
   4. Review peers and create test report
6. Week 6
   1. Tag software as deliverable in GIT repository
   2. Present intermediate version to client and peers
7. Week 7
   1. Gather information about the new requirements from the client.
   2. Continue with implementation based on the new requirements.
8. Week 8
   1. Meet with tutor to discuss documentation progress and app demo.
   2. Continue with implementation based on the new requirements.
9. Week 9
   1. Implement and test solution.
   2. Hand in first iteration deliverables.
   3. Present current status for review.
   4. Reflect on the past iteration and prepare for the next iteration.
10. Week 12
    1. Midterm application presentation
    2. Midterm formative indication
11. Week 15
    1. Technical peer review
12. Week 18
    1. Final application presentation
    2. Final formative indication