

Media Bazaar

A software solution



CB-03 Group 1

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Our Client

Our client is the new store “Media Bazaar”. They are opening their first shop in Eindhoven, funded by the parent company “Jupiter”. Mr Frank de Lepper is the representative for Media Bazaar. Every few weeks we will have a meeting with our client to discuss the progress of our app and to see if it matches the functional requirements of Media Bazaar. This is also the time for the client to add new functional requirements for us to implement.

Our Team

The name of our team is “Group 1” and consists of four members. The members of the team are Soleil Umwiza, Mohammad Nazibul Khan, Esther Wolfs and Lars Kluijtmans. The team is represented by Esther Wolfs, who will schedule the meetings with the client. The meetings of these minutes will be kept by Soleil Umwiza. Every member will discuss their findings with the client.

Current Situation

The parent company of Media Bazaar, Jupiter, has a lot of problems with managing their products and employees. To prevent the new Media Bazaar store from having the same problems they have decided to invest in a new software solution early on.

Our team has been asked to create a few different apps for the different employees of the store to use, as well as a website for employees to use when they are at home. A few other teams have been approached by Media Bazaar as well, so there are some competitors working on a similar solution.

Problem Description

manage products/view stock info/manage employees/make schedules for employees/view schedules.

Media Bazaar has hired us to create an administrative software solution and a website. They want to be able to keep track of their employees and their products.

For managing the employees they need to be able to view all their employees, add new employees, update employee info and remove employees. The employees themselves need to be able to edit their own data, on a separate website.

Media Bazaar also wants to be able to view information on all the products that are currently sold in the store. With this information they want to be able to add new products, update products and remove products. The company wants to manage their stock with this application. They need to be able to view the amount of stock that’s on the shelves in the store and the amount that’s left inside of the depot. When the amount of stock that’s left is low the employees should be able to make a restock or replenishment request.

To make sure there are always enough employees working at the store, the manager need to be able to make the schedule for the employees. Employees need to view their individual schedule on the website. To keep track of the attendance of employees, Media Bazaar also needs an app to give employees the possibility to check in/out when they start/finish their work day.

Project Goal

Our goal for this project is to create and implement a software solution that meets Media Bazaar's requirements. We will meet with the representative of Media Bazaar to learn what these requirements are. Another goal is to learn how to work together as a group and communicate with each other, in order to create a stable, working app.

Deliverables

We will deliver the following products to our client Media Bazaar:

- An administrative software solution for Media Bazaar
- A software solution for keeping track of the attendance
- A website
- The minutes of the meetings with the client
- The interview of the meetings with the client
- A user requirements specification document

We will also deliver certain documents to our project tutor, these include:

- Our project plan
- Our process report
- The minutes of the meetings with our tutor

Non Deliverables

Some of the non deliverables include a product manual. We will also not be delivering a solution for automated scheduling of employees.

Constraints

For our solution there are a few constraints we have to keep in mind. The programming language we will user for our software solution is C#. For the main software solution we will be creating a Windows Form application and for the website we will be using an ASP.NET Core Razor Pages project.

To store all the information of the employees and products we will be using a database, for this database we will be using MySQL.

For this project we will be using the following hardware:

- A NFC Tag reader, for the check in/out system
- A barcode scanner, for the restock/replenishment system

Phasing

For this project there will be different phases. Each phase consists of several weeks and will have sub-deliverables.

Phase 1

During the first phase we will be meeting with our client to determine the functional requirements for the solution and we will write the user requirements specifications document. After this we will start with implementing the first features of our app. At the end of phase 1, in week 6, we will be presenting the first version of our app to the client, the first sub-deliverable.

The end of week 6 and the delivery of our first version of the app is the first milestone, which will result in a go/no-go decision. If the client is happy with our work, we will continue with phase 2.

Phase 2

After completing phase 1 we will continue with phase 2, which will last for 3 weeks. The first thing we will do is update our documentation to include the next steps for our project. We will be meeting with our client again, to receive feedback on our solution and discuss additional functional requirements. During this phase we will also start working on the website for Media Bazaar.

The sub-deliverables of phase 2 consist of the second version of our app, now including additional functional requirements, as well as the first version of a website for the employees of Media Bazaar. Phase 2 ends in week 9 and this will be the second milestone and go/no-go decision.

Phase 3

To start of phase 3, we will again update our documentation to include the new requirements. The sub-deliverables consist of the next version of our app and website. Phase 3 ends in week 12.

Phase 4

To start of phase 4, we will again update our documentation to include the new requirements. The sub-deliverables consist of the next version of our app and website and the activity diagram. Phase 4 ends in week 15.

Phase 5

To start of phase 4, we will again update our documentation to include the new requirements. The sub-deliverables consist of the next version of our app and website. Phase 4 ends in week 18.

Planning

Every week we will have a meeting with our tutor to discuss our process and ask for feedback. All of the work will be divided equally between all four team members.

Week 1:

- Create a name and logo for our group
- Create and submit the project plan

Week 2:

- Interview client to determine functional requirements
- Improve the project plan based on given feedback
- Create the User Requirements Specification document based on client interview
- Create our UML diagram

Week 3:

- Improve the User Requirements Specification document based on given feedback
- Start implementing the software solution

Week 4:

- Create the database design
- Create the database tables and connect the database to the solution
- Extend the implementation of our software solution

Week 5:

- Continue with the implementation of our software solution and the database
- Create a test plan for our app and send the plan and binaries to group 2 for review
- Review the test plan and app for group 3 and create a test report

Week 6:

- Write process report
- Tag the deliverables in GIT
- Present the first version of the app to our client and peers

Week 7:

- Meet the client for the second interview
- Update the documentation to include phase 2
- Start working on the website
- Start working on the new app for the restock and replenish requests, with the use of a barcode scanner
- Start working on the new app for the check in/out system, with the use of the nfc tag reader
- Continue working on the main app

Week 8:

- Implement the class library

- Continue working on the implementation of all apps/website

Week 9:

- Hand in sub-deliverables for phase 2
- Present the current status of the project to the client and peers
- Reflect on current iteration and prepare for phase 3