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| Fontys University of Applied Science |
| Project Plan |
| Media Bazaar |
| PRJ CBO-02, group 2  Supervisor: Brice Guayrin  Eindhoven, 01-09-2021 |

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# Document Change Record

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| *Date* | *Version* | *Author* | *Comments* |
| 01-09-2021 | 0.1 | Kenneth/Andrija/Sander | Initial Document |
| 08-09-2021 | 0.2 | Kenneth/ Andrija/ Sander | Updated version of initial document |
| 12-08-2021 | 0.3 | Kenneth/ Andrija/ Sander | Final version |
| 12-11-2021 | 0.4 | Kenneth/ Andrija/ Sander | Updated Final Version |

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# Definitions, Acronyms and Abbreviations

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| --- | --- |
| *Term* | *Description* |
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# 1 Client

Our client is Mrs. Thayyakathe, a spokesperson from Media Bazaar. Media Bazaar is a rapidly growing technology-based store. They are about to open a store in Eindhoven, but they are looking forward to expanding to other cities. Funded by their parent company “Jupiter”, they have been assigned to create an application that improves efficiency and easiness of handling large amounts of products and employees. Media Bazaar as a store sells home appliances and tools, toys and games for children, food and many more.

Media Bazaar currently has a Management, the administration and lastly the depot Stock workers.

All contact with the client will be through Mrs. Thayyakathe All meetings will be discussed with Mrs. Thayyakathe beforehand to determine its importance and scheduling.

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# 2 Team

Our team consists of:

* Boakye-Buah,Kenneth K.A., 3932257, [k.boakyebuah@student.fontys.nl](mailto:k.boakyebuah@student.fontys.nl)
* Andrija Hanga, 4137612 , [a.hanga@student.fontys.nl](mailto:a.hanga@student.fontys.nl)
* Boers, Sander, 438165, [s.boers@student.fontys.nl](mailto:s.boers@student.fontys.nl)

Repository:   
<https://github.com/Andrija121/MediaBazaarProjectKSAsolutions>

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# 3 Current Situation

Media Bazaar is growing, so that means there’s more employees to manage, stocks of their products to manage and sell and working shifts to schedule. The approach that Media Bazaar is currently taking is that all employees are managed through verbal communication/email or phone calls when at home. Shifts/Schedule of the working employee are made manually and often stored on an excel sheet. Their Inventory (stock of products) management is not being done with the help of computers, so their employees do it on paper and keep receipts of sales, statistics and finally request of new products.

# 4 Problem Description

The Media Bazaar administrations has 5 types of employees working at sight and besides employees verbally being briefed and trained on how to work in the store, the company has system that handle the different administrative access rights of each employee. Another problem that media bazaar faces is that there’s no digital (automated) schedule for their employees. So, there’s occasional amount of absence at work, which is currently not properly being managed or accounted for using an excel list. Many of their employees' personal information is going out of date, because the process of storing this information is handled manually which is creating a lot of problems for the administration/management teams. Other problems like checking/storing their statistics and sales and checking track of their stocks are problems Media bazaar struggles to manage. They hope to have an application that can handle their gradually growing work force and data.

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# 5 Project Goal

The first phase of the project is to create an desktop application that is going to be able to store the employees’ personal details, and to establish the accessibility levels of all the Users of the application. We want to be able to display the store stocks and warehouse stocks so that the management team can monitor which products are selling and which aren’t. This process will allow them to restock, Add, Update and Delete the current stock of Media Bazaar. We also hope to automate the schedules of their employees and managers so that both users can view, request, and plan the times they want to work.

# 6 Deliverables

* desktop application
  + Employee Management
  + Department Management
  + Automatic Scheduling
  + URS, Project plan and Test report
  + Statistics of Stocks and Employee
  + Stocks and sales Managements
* Website application
  + Website employee view
  + Website Schedule view
  + Website Statistics view
  + Website Department view

7 Non-Deliverables

* + Customer support service
  + Web site hosting
  + Bug free system
  + Secure software
  + Maintainable and extendable, overall system with persistence

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# 8 Constraints

1. The deadline of our project is at the end of week 18
2. We need to have the mentioned functionalities in application by the end of week 18
3. Software framework that is going to be used is .Net Core (C#, ASP.NET), with all information stored into Database (MySQL).
4. We use a version control management system (GIT).

9 Phasing

Following phases show progress made in every iteration (6 weeks), which will divide 18 weeks in 3 sprints of 6 weeks each.

**1st Iteration**

1. Phase 1: **Analysis**
   * Activities:
     1. Discussing and writing a work agreement with the team
     2. Wrote the project plan and held meetings with the client  
          
        **Deliverable**: First version of documentation and team agreements by the end of 1st week.
2. Phase 2: **Design**
   * Activities:
     1. Writing the user requirements document
     2. Finalizing the project plan
     3. Writing database relationships
     4. Prototyping   
          
        **Deliverable**: Final version of documentation with class diagram and database diagram the end of 2nd week.
3. Phase 3: **Implementation**
   * Activity:
     1. Finalizing user requirements document
     2. Dividing work
     3. Coding the desktop application
     4. **Deliverable**: First implementations with database by the end of 3rd week.
4. Phase 4: Implementation
   * Activity:
     1. Continuation of implementation  
          
        **Deliverable**: Continue with implementation, finished database with its connections, overall work in progress by the end of 4th week.
5. Phase 5: **Testing**
   * Activity:
     1. Producing Test Report
     2. Testing our application
     3. Finalizing our implementation  
          
        **Deliverable**: Test analysis with certain testing system and finalizing implementation of presentation layer by the end of 5th week.
6. Phase 6: **Demo**
   * Activity:
     1. Preparing demo presentation
     2. Git tagging our application  
          
        **Deliverable**: End of iteration, final version of software solution by the end of 6th week .

**2nd Iteration**

1. Phase 1: **Analysis**
   * Activities:
     1. Discussing and writing a work agreement with the team
     2. Improved the project plan, URS and held meetings with the client  
          
        **Deliverable**: Second version of documentation and team agreements by the end of 7th week.
2. Phase 2: **Design**
   * Activities:
     1. Writing the user requirements document
     2. Finalizing the project plan
     3. Improving database relationships
     4. Prototyping   
          
        **Deliverable**: Final version of documentation with class diagram and database diagram the end of 8th week.
3. Phase 3: **Implementation**
   * Activity:
     1. Finalizing user requirements document
     2. Dividing work
     3. Coding the desktop application

**Deliverable**: First implementations with database ends by the end of 9th week.

1. Phase 4: **Implementation**
   * Activity:
     1. Continuation of implementation  
          
        **Deliverable**: Continue with implementation, finished database with its connections, overall work in progress by the end of 10th week.
2. Phase 5: **Testing**
   * Activity:
     1. Producing Test Report
     2. Testing our application
     3. Finalizing our implementation  
          
        **Deliverable**: Test analysis with certain testing system and finalizing implementation of presentation layer by the end of 11th week.
3. Phase 6: **Demo**
   * Activity:
     1. Preparing demo presentation
     2. Git tagging our application  
        **Deliverable**: End of iteration, final version of software solution by the end of 12th week .

**3rd Iteration**

1. Phase 1: **Analysis**
   * Activities:
     1. Discussing and writing a work agreement with the team
     2. Improved the project plan, URS and held meetings with the client  
          
        **Deliverable**: Third version of documentation and team agreements by the end of 13th week.
2. Phase 2: **Design**
   * Activities:
     1. Writing the user requirements document
     2. Finalizing the project plan
     3. Improving database relationships
     4. Prototyping   
          
        **Deliverable**: Final version of documentation with class diagram and database diagram the end of 14th week.
3. Phase 3: **Implementation**
   * Activity:
     1. Finalizing user requirements document
     2. Dividing work
     3. Coding the desktop application

**Deliverable**: First implementations with database ends by the end of 15th week.

1. Phase 4: **Implementation**
   * Activity:
     1. Continuation of implementation  
          
        **Deliverable**: Continue with implementation, finished new database connections, overall work in progress by the end of 16th week.
2. Phase 5: **Testing**
   * Activity:
     1. Producing Test Report
     2. Testing our application
     3. Finalizing our implementation  
          
        **Deliverable**: Test analysis with certain testing system and finalizing implementation of presentation layer by the end of 17th week.
3. Phase 6: **Demo**
   * Activity:
     1. Preparing demo presentation
     2. Git tagging our application  
          
        **Deliverable**: End of iteration, final version of software solution by the end of 18th week .