A close up of a logo

Description automatically generated

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project plan Group 6 hardware store application

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# Revision History:

|  |  |  |
| --- | --- | --- |
| **Date Changed** | **Document Version** | **What was changed** |
| 10/09/2020 | 1 | Fixed Constraints |
| 17/09/2020 | 2 | Adjusted Project Goals and Layout issues |
| 28/10/2020 | 3 | Added Info about Iteration 1 |
| 21/11/2020 | 4 | Added Info about Iteration 2 |
| 22/12/2020 | 5 | Added Info about iteration 3 |

# Introduction:

This is a project plan for the software development of the hardware store administration. We have been given certain challenges that a company is currently facing, and our aim is to develop a solution to make the company more efficient and the overall work environment better for the company.

# Client:

Our Client is Media Bazaar. They are a hardware store. They have stock and employees. We have been in contact with Michael Koehorst. His email address is [m.koehorst@fontys.nl](mailto:m.koehorst@fontys.nl).

# Team:

|  |  |  |  |
| --- | --- | --- | --- |
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Our team consists of various members from the software class. We will be using our knowledge of Software Development to implement a solution that will satisfy the needs of the client.

We will also be collaborating with our tutor, Andre Postma ( [a.postma@fontys.nl](mailto:a.postma@fontys.nl) ). He will be guiding us through this process and helping us where possible.

# Current Situation:

Currently there is no software solution implemented. In the current situation, the company is making use of employees to manually sort through excel spreadsheets to generate both schedules and statistics needed by the administration department.

# Problem Description:

The problems the company is facing right now is that they have no visibility into how their stock and employees’ schedules are planned. They would also like to get statistics from the employees based on the information they have. For example: hours worked, and shifts taken. The company would also like to have a way for their employees to update their information and be able to view their work schedule.

# Project Goal:

**Project goal short-term ( Weeks 1-6 ) *Waterfall Version.***

Demo Application ( Focusing on the needs of the administration department alone )

**Project goal Iteration 1 ( Week 9 ) *Iteration Phase***

Website must be created for the Media Bezaar Company staff. The website will allow the employee to login and view their current personal information as well as some of their contractual details regarding their employment at Media Bezaar.

**Project goal Iteration 2 ( Week 12 ) *Iteration Phase***

Stock management application that allows the managers to request a restocking of items. This will also allow the managers to have statistics about both employees and stock currently in the business.

**Project goal Iteration 3 ( Week 15 ) *Iteration Phase***

The main focus for this iteration is to bring an automated system to aid in the scheduling for the company. This will require an algorithm to be written that will take a set of pre-determined factors into consideration before providing a result.

**Project goal long-term ( End of 18 weeks )**

Our goal for the long-term project is to deliver a software solution that meets all the user’s requirements as we understand them so far. This means making a C# application that helps the administration department with scheduling of employee’s shifts as well as being able to add and remove employees from the company. This will mean incorporating a database that will store all relevant information about the employees that is deemed relevant by the company. There will also be different roles for some users who use the C# application, (Managers and Administrators), who will be able to access different information drawn from the database.

We will also have a website for the employees to view the schedules and personal information. This will all be linked to the database where all the relevant data will be stored.

# Deliverables:

1. C# Application for the Administration department. This program includes functionality such as “Adding and Removing of Employees” and “Scheduling the shifts that employees work”.

This needs to be delivered to the client after the first 6 weeks. ( 20/10/2020 )

1. A database that is linked to the above-mentioned C# program/s and the website. This database will be able to be uploaded to and downloaded from.

This needs to be delivered to the client after the first 6 weeks. ( 20/10/2020 )

1. A website that will be accessible by the employees to check the schedules and update their personal information that is required to be up to date by the company.

Employees must be able to login as a user and only see information and schedules relevant to them.

This needs to be delivered to the client after 9 weeks. ( 08/11/2020 ) .

1. C# Application for Managing Department. This program will be focused at providing the management with statistics based on employees’ data and performance within the company.
2. C# Automated scheduling.

This needs to be delivered to the client after 15 weeks. ( 03/01/2021 ) .

# Timetable for Deliverables ( First Phase Only ):

|  |  |  |  |
| --- | --- | --- | --- |
| Week # | Deliverables | From | To |
| Week 1 | Project Plan, GIT and the whole project setup. | 31/08/2020 | 05/09/2020 |
| Week 2 | GUI setup, Database setup,  Wireframes for each page, GRUD for Departments  URS | 06/09/2020 | 12/09/2020 |
| Week 3 | CRUD and GUI for Employees and login functionality for the app. | 13/09/2020 | 19/09/2020 |
| Week 4 | CRUD for Products and GUI for the needed functionalities. | 20/09/2020 | 26/09/2020 |
| Week 5 | CRUD and GUI for schedules  Testing Plan | 27/09/2020 | 03/10/2020 |
| Week 6 | Finalizing the product | 04/10/2020 | 20/10/2020 |

# Timetable for Deliverables ( Iteration 1 ):

|  |  |  |  |
| --- | --- | --- | --- |
| Week # | Deliverables | From | To |
| Week 7 – 9 | Update Project Plan | 26/10/2020 | 08/11/2020 |
| Week 7 – 9 | Update URS | 26/10/2020 | 08/11/2020 |
| Week 7 – 9 | Create Website | 26/10/2020 | 08/11/2020 |
| Week 7 – 9 | Create Test Plan | 26/10/2020 | 08/11/2020 |
| Week 7 – 9 | Process Report | 26/10/2020 | 08/11/2020 |

# Timetable for Deliverables ( Iteration 2 ):

|  |  |  |  |
| --- | --- | --- | --- |
| Week # | Deliverables | From | To |
| Week 10 – 12 | Update Project Plan | 09/11/2020 | 29/10/2020 |
| Week 10 – 12 | Update URS | 09/11/2020 | 29/10/2020 |
| Week 10 – 12 | Create Stock Management Application | 09/11/2020 | 29/10/2020 |
| Week 10 – 12 | Process Peer Review | 09/11/2020 | 29/10/2020 |
| Week 12 | Presentation for Iteration 1 & 2 | 22/11/2020 | 29/10/2020 |

# Timetable for Deliverables ( Iteration 3 ):

|  |  |  |  |
| --- | --- | --- | --- |
| Week # | Deliverables | From | To |
| Week 13 – 15 | Update Project Plan | 29/10/2020 | 03/01/2021 |
| Week 13 – 15 | Update URS | 29/10/2020 | 03/01/2021 |
| Week 13 – 15 | Create Automated Scheduling Algorithm | 29/10/2020 | 03/01/2021 |
| Week 13 – 15 | Process Peer Review | 29/10/2020 | 03/01/2021 |

# Non-deliverables:

There are one. This will be updated if such an occurrence is to arise.

# Constraints:

* + - 1. Time Period - There is set period for this project ( 18 weeks ). This means that there is no possibility for the extension of deadlines. Our team will have to focus on delivering the best possible product given the time we have.
      2. Current Knowledge – We are limited to programming in C# as we only know C#. We will have to use the knowledge that we attain of the 18 weeks in the project as we move along.