P L A N  
Software solution for Media Bazaar



ICT & Software Engineering - Semester 2

Class: S2-CB-01

Group: 4

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Date: February/March 2021

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         2. Assigning new tasks to the group members
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         1. Finishing up the whole project / finishing tasks from the past week(s) (if any)
         2. Finishing up the report document
         3. Test plan / User testing
         4. Time management / Duration
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      6. Tasks for week six
         1. End of the first work period.
         2. Evaluation of the work done.
         3. Self-evaluation / Goal check / Self-check / Time management

Introduction to the problem / assignment

1. **Client**

The client is Michiel Koehorst who represents the company MediaBazaar (daughter company of Jupiter), which is a hardware shop that is going to open its first shop in Eindhoven. Three meetings with the client are going to be conducted, in which he is going to present what their company needs and give the team feedback on what have been done. If needed, the client is accessible via email ([m.koehorst@fontys.nl](mailto:m.koehorst@fontys.nl)).

1. **Team**

The name of the team is BulCari and it consists of four people (Tony Jiang, Stoycho Stoychev, Veronika Valeva and Stela Trencheva). Our team consists of one Caribbean and three Bulgarians. Although there is not a large range of nationalities, team members are ready to share not only coding experience but also personal and cultural skills. The team can be accessed via email (bulcari@gmail.com).

1. **Current situation**

A new hardware store “Media Bazaar” is opening their first shop in Eindhoven. Funded by the parent company “Jupiter”, they intend to start as well prepared as possible. They have been facing problems with managing and tracking employees and stock and their priority is on these points, but employees’ administration is even more important. These problems are due to the fact that they are doing everything manually at the moment. They are using online calendars and excel sheets, but they found them too detailed and unreliable. That is why they need a team of software developers to build a brand new application for them.

There are competitors working on similar solution and after the first phase of the project (week 6) the client is going to decide if the team is going to continue working on it. That is why the team should strive for delivering a solution that best suits the need of the client.

1. **Problem description**

The biggest challenge that Media Bazaar’s management foresees is managing and keeping track of their employees and products. They also have difficulties assigning shifts to employees and viewing them for the whole store and per person.

1. **Project goal**

The project goal is to help Media Bazaar create an efficient way for their employees to add / remove employees, keep track of the attendance of employees, assign work shifts, manage depot, see shelf restock requests and view statistics, using IT solutions! In the planning, you can find all the deliverables required for the successful software solution.

1. **Deliverables**

In the first 6 weeks of the project, the team will deliver:

* Windows Form Application
* Documents describing it and the process of creation (Project plan, URS, Report)
* Functionalities such as:
  + Login
  + User information and edit profile
  + Managing employees (adding / removing employees/change contract)
  + Assigning shifts to employees/ see weekly schedule
  + Statistics about employees / products
  + Adding and removing products
  + Product data
  + Change password
  + Database

1. **Constraints**

* Windows Form Application
* Programming language - C#
* Sharing code between team members – Gitlab
* Not needed to buy or get external sources to run the project
* Important deadlines for the project –
  + Week 6
  + Week 12
  + Week 18
* Number of meetings with the tutor - two each week, which leads to limited feedback times
* Number of meetings with the client - only three for the whole project
* Not much detailed information provided - can lead to not delivering the software that best satisfies the needs of the client.

Phasing

**Phase 1:** First version of the application

**Milestone 1:** Week 6

Week One

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | Forming a group/Project plan | **Delivery date:** | 12.02.2021(Friday) |
| **Input:** N/A | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * Create a group of four people. * Make a repository. * Come up with questions for the client. * Interview the client. * Make a project plan. * Assign group members with different responsibilities. * Make a project report document. | | | | |
| **Responsibility:** | | | | |
| * Stoycho – Create a git repository. Write the agenda before every meeting. * Tony – Speak with the client * Stela – Work on the project plan. Write decisions after every meeting. * Veronika – Start the report documentation. Work on the project plan. | | | | |
| **Output:** PRJ-CB01 – Group 4  Git repository - https://git.fhict.nl/I467491/s-cb-s2-cmk-group-4.git  Project plan  Report  Group name and logo | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Two

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | URS | **Delivery date:** | 26.02.2021(Friday) |
| **Input:** Project plan/Tutor feedback  Client’s requirements | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * Improve the project plan. (if needed) * Create sketches and wireframes for the application. * Create a logo for the application. * Working on the user requirements specifications. | | | | |
| **Responsibility:** | | | | |
| * Stoycho – Start with UML diagram, URS * Tony – URS * Stela – Come up with a logo. Work on wireframe. URS * Veronika – Work on sketches. URS | | | | |
| **Output:** Sketches  Wireframe  Project logo | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes

Week Three

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | Implementation | **Delivery date:** | 05.03.2021(Friday) |
| **Input:** Tutor feedback  Sketches  Wireframe  Project logo  Tutor feedback. | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * UML diagram * Create a log in functionality. * Create a profile pages for every kind of user. * Implement classes and create objects (HR admin, management, depot-workers, employees) * Create product class. * Database connection. | | | | |
| **Responsibility:** | | | | |
| * Stoycho – UML, Create a log in functionality. Database connection. * Tony – UML, Create a profile pages for every kind of user. Create product class. * Stela – UML, Implement classes and create objects (HR admin, management, depot-workers, employees) * Veronika – UML, Implement classes and create objects (HR admin, management, depot-workers, employees) | | | | |
| **Output:** UML diagram  Log in  Profile pages  Implemented classes and objects (HR admin, management, depot-workers, employees) | | | | |
|  | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes.

Week Four

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | Implementation | **Delivery date:** | 12.03.2021(Friday) |
| **Input:** Log in  Profile pages  Implemented classes and objects (HR admin, management, depot-workers, employees)  Tutor feedback. | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * Create employee statistics. (management) * Create the functionality of assigning shifts to employees. (administration) * Create the pages for managing employee profiles.(adding / removing) (administration) * Create product data(stock worker). * Create product statistic(store manager ). * Add and remove product(stock manager). * Database managing | | | | |
| **Responsibility:** | | | | |
| * Stoycho – Database/Selecting, Adding, Updating, Deleting/ * Tony – Create product data(stock worker). Create product statistic. Add and remove product(stock manager). * Stela – Create the functionality of assigning shifts to employees. (administration) * Veronika – Create the pages for managing employee profiles.(adding / removing) (administration). Create employee statistics. (management) | | | | |
| **Output:**  Employee statistics  Functionality of assigning shifts to employees  Pages for managing employee profiles | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes.

Week Five

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | Testing/Implementation | **Delivery date:** | 19.03.2021(Friday) |
| **Input:** Stock statistics  Employee statistics  Functionality of assigning shifts to employees  Pages for managing employee profiles  Tutor feedback. | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * Create a test plan. * Send test plan to peers. * Create a report with the results from the user testing. * Work on any unfinished work from past weeks concerning the implementation of the code. (if any) | | | | |
| **Responsibility:** | | | | |
| * Stoycho – Work on any unfinished work from past weeks concerning the implementation of the code. Fix weak parts of the code. Send test plan to peers * Tony – Create a test plan. Add test case part in the test plan. * Stela – Add test case part in the test plan. * Veronika – Create a report with the results from the user testing. Add test case part in the test plan | | | | |
| **Output:** Test plan  User testing / Report | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes.

Week Six

# Work for the week:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity name:** | Software presentation | **Delivery date:** | 26.03.2021(Friday) |
| **Input:** User testing / Report  Initial version of the application – finished  Report documentation  Tutor feedback. | | | | |
| **Budget:**  16/h per person | | | | |
| **Activities:** | | | | |
| * Create a presentation. * Finish the report documentation. * Present the final version of the application. | | | | |
| **Responsibility:** | | | | |
| * Stoycho – Present the final version of the application. * Tony – Present the final version of the application. * Stela – Create a presentation. * Veronika – Finish the report documentation | | | | |
| **Output:** | | | | |

* Self-check at the end of the week – Check the work done / Check the unfinished processes.