R E P O R T  
Software solution for Media Bazaar

ICT & Software Engineering - Semester 2

Class: S2-CB-01

Group: 4

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Week One

# Work for the week:

On week one we got introduced to the problem and the idea of the project itself. The first thing that we had to do was to create a team that was going to work on the project. We created a group of four and uploaded our group on canvas under number 4. We called ourselves “BulCari” and came up with a logo for our team. The next thing in our to do list was to create a GIT repository (<https://git.fhict.nl/I467491/s-cb-s2-cmk-group-4.git>) .

After we had done the administrative part our next job was to fully read and understand the problem presented to us. Before giving a start to our project we first had to make a project plan. We made a schedule, distributed the tasks to the group members, and set the deadlines for every deliverable. We made a draft of the project plan and presented it to our teacher. After the consultation, the group members gathered and came up with a better project plan. In the end of the week, we had a meeting with our client. We had to come up with questions and interview him. We came up with a logo for the application.

By the end of the week (12/02/2021) we have done all the work in the project plan for week one. We are satisfied with the work we have done, and we look forward to the next week.

Week Two

# Work for the week:

This week we had to complete the user requirements specifications. We updated the project plan. After we had written down the client agreements, we were ready to start working on the fontional requirements and the use cases. We decided on making sketches and wireframes for the application. We put everything in a “URS document” and uploaded it in our git repository. We started creating the UML diagram for the application. By the end of this week, we had clearer vision of the application and what it would look like.

By the end of the week (26/02/2021) we have done all the work in the project plan for week one. We are satisfied with the work we have done, and we look forward to the next week.

Week Three

# Work for the week:

This week we further updated the project plan and kept on working on the URS document. After the tutor feedback we added more use cases and fixed the format of the document. We send the client an email with some questions to further understand the client’s view for the application.

We began creating the real application. We did the GUI. We used forms for the different user profiles (store/stock/department manager, HR, stock worker) and user controls for the different pages for the certain profile. Every user has buttons for every page and “My account” page. There is a log out functionality for every user. The HR user has “Manage employee’s profiles” page – for viewing employees, adding new to the system, and changing employee’s contract. The Department manager has “Schedule” page – for assigning and viewing the schedule. The Stock manager has “Schedule” page - still in progress and “Product” page - for showing all products in the system and adding new. The Store manager has “Stock Statistics” and “Employee Statistics” page – for viewing statistics about stock and employees. The Stock manager has “Product data” page – for showing all the products in the system and “Restock Request” page – still in progress.

Week Four

# Work for the week:

This week we started the implementation of the application. We started with creating different classes for the different users. Later, we decided to have only one class for all employees and to have an enumeration for the different types of employees. We used enumeration for the different types of contract too. We created a class named “ManageEmployees” for managing all the other classes and for communicating with the forms. We created classes for “Schedule”, “Week”, “Day” and “Shift”. They are involved with the making of the schedule. There are two enumerations supporting the classes – “DayOfWeek” – with the days of the week and “ShiftType” – for the four different types of shifts.

We made the log in page. Created couple of users with different log in credentials who were created in the start of the program so that the log in functionality works. We displayed the information of the logged user in his/her profile page.

Later this week we decided to include database in our application. We added one more class for managing the connection with the database – called “DatabaseMediator”.

Week Five

# Work for the week:

This week we began transferring all the information from the application to the database. We made the log in functionality directly connected to the database. We added more functionalities to the application. We created pages for adding employees, removing employees, and changing employee’s contracts. We had some trouble with the queries and the format of the dates, but we fixed it.

After two weeks of brainstorming ways to best implement the assigning of shifts in the application we were finally ready and added the functionalities for assigning and viewing shifts.

We added the page for the employee statistic, which shows information about the hours worked and hourly wages of the employees per time unit for the date the user had chosen. If the user does not choose a date – the system selects today’s date.

We asked our client for some more information regarding the “product” section of the application. Based on his answer we created pages and functionalities for viewing the product data, adding product, removing product and product statistics – showing the the total revenue of each product and total profit of each product.

At this point we connected everything to the database.

Week Six

# Work for the week:

This week we focused on finishing all functionalities and adding final touches to the application. We added a change-password button to every user’s account page. This button opens another form for changing the user’s password. After that we started testing everything and finding possible mistakes in our code.

After that we focused on finishing the documentation around the project and creating the presentation for the 10min showing od the application.