**Project FIT**

In our group project we developed a management software for the fitness center FIT. The first thing you need to do is to login or to register as a new user. If you register yourself, you will have to insert some of your personal data. Our Program writes this data into a database so you will be able to login with an E-Mail address and password the next time you start the program. In the software you can attach new costumers, see the different courses the fitness center offers and have a look at, how much time people spend in the fitness center. We made adding a new costumer to the system very easy. You just have to insert an ID, the first – and last name off the costumer, his or her date of birth, a location and a phone number. We developed a program in the programming language C# that writes the information into a MYSQL database and safes them there. We used XAMPP to install the database on our laptops. We chose XAMPP because it is very easy to managed the different Tables in the databases there. In addition to that it is not very difficult to install XAMPP on a Laptop so we did not lose much off our time there. You are also allowed to remove costumers from the database or you can insert new ones by clicking a button. If you do this a new window opens where you have to declare the needed data. It is not allowed to leave one of the fields empty otherwise the new costumers can’t be added to the database of the fitness center. It is possible to search in the database for either one or all costumers that are registered. If you search for one costumer you have to insert the ID. Then a new Window opens and shows all of the data that’s found in the database. In case you don’t know the specific ID of every costumer you can list every costumer that is attached to the Database and find out, which costumer you were looking for. The same thing is possible with all the employees that are attached to the Database. That means it is possible to list up all employees attached to the database. The next thing we developed is a tool to see the different courses the gym offers. They are listed in a table and the users don’t have to search a long time so see everything at one point.

The fourth and last thing we developed is a tool that manages the different workout times of the customers. If a costumer enters the fitness center the employees can press a button, then a counter starts running until the costumer leaves until an employee presses the button again. Our program subtracts the two timestamps and shows the employees how long the costumers used the fitness center.

Overall the new program we developed is a very simple desktop application. It is good for costumers, who don’t want to use a lot of paper in the office. Our application minimizes the use of paper in Offices!

**The Implementation**

While we implemented our project we first had the problem, that we didn’t knew which programming language we should use. We simply didn’t know, which one would be best to use for our idea to implement a management software. After talking to different class mates and out teacher we decided to use C Sharp. Our second mistake was, that we all just started programming right away without assignment of our tasks. That’s why we lost some time at the beginning of our project. We could have used the given time better if we made a better allocation of the different tasks.

After that we allocated the tasks better and made progress. We found a good mean between programming and writing the project documentary. We often sat together and talked about things like the design of our program or which tasks need to be completed. As said before we lost some time at the beginning of our project and that’s why we could need some more time but we just finished in time. We all had fun developing the software and everyone learned something new. To give a resume we did have some problems at the beginning from the project, but we managed to finish in time and it was a good experience.