ITRW324

Project Proposal

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# Introduction to the Problem

A personal trainer is scheduling her appointments by hand in a written diary. And struggles to keep track of all the appointments, to notify other clients of when timeslots will be available. This document will explain what the project entails, some information of how I will use make use of tools and technology to solve the problem, how the project will be completed and a conclusion with the summary of the document.

# How I will solve the problem

I will create a booking system that will be accessible via the website making it possible to access for almost any device with internet access. Customers can view all booked and available or unavailable timeslots without having to log in at all. Customer logging will only be required once a booking is being requested or if they try to access the administrative page. All bookings will be added to the bookings database and will await confirmation. When the timeslot is accepted a detailed invoice will be sent to the customer to notify them of the cost of the procedure. This will be done by email. Bookings will be available for viewing for anyone visiting the website. Bookings will only be made visible once the booking is accepted by the owner, the appointment will also then be added to the owners’ own personal google calendar. There will also be an administrative side of the website, accessible via password, where the owner can confirm, view and also edit any bookings. The administrative side will also contain all previous customer’s information such as email, cell number and booking history. Making it a well-rounded, user-friendly solution to satisfy a scheduling problem.

# Technology and tools in my project

## Website and Webservice Technology

The web service will be used to communicate with the database and google calendar. The database will be used for login to the website and keep all the desired information of customers such as the customer’s name, email and cell phone number. The website will be used for all user interaction with the rest of the system.

## Tools used In My Project

The development environment that I will be using is Visual Studio 2017. Visual studio has various set of developing tools making it possible to create multiple different applications. In Visual studio, I will be making use of ASP.NET, which I will use for creating the website.

In the development phase I will also be making use of Git. This tool makes it easier to keep track of development, and progress it also makes it possible to access the work form multiple devices over the internet.

The Google calendar api will also be used, this will make out most of the sheduling part of the website and also to populate the owner’s calendar once the booking have been confirmed.

I will also be making use of MySQL database to keep all the records of the bookings and all the user’s information, to be pulled and viewed on the website.

# Planning and project layout

Seeing that the project has a very short timeframe I will not be using any development techniques and will just be focusing on getting a working project out as complete and user-friendly as possible. Below is how I plan to develop the project:

* Research: +\_5 hours
* Planning: +\_2 hours
* Development for prototype: +\_35 hours

1. Development of website: +\_15 hours
2. Development of webservice: +\_15 hours
3. Linking Webservice and website: +\_5 hours

* Test prototype: +\_2 hours
* Fix problems and improve solution: +\_5 hours
* Finalize and roll-out system: +\_1 hour

Project total to completion: +\_50 hours

1. **Other solutions out there already**

There are many existing scheduling websites and applications out there that could partially meet the needs of the owner. One example is Google calendar, which I will also be implementing in my solution which might have suited her needs if she wanted an online diary, but she doesn’t. She needs a solution that can suit the need of her business, which includes her clients. Meaning that they must also be able to use the system. That is why my solution is required for the success of her business as well as to make her life easier and more efficient. My solution will also send invoices to customers after a successful booking, saving her even more time. Thus, even though there are many good, and even better ways to schedule, there is none that cater for her specific needs.

# Conclusion

I’m planning to make easy to use interface for both the customer and the personal trainer, to make not only it easy to use, but also fast to react to make their day even more effective. It will give customers a fast and effective way of making new bookings and help the owner keep track of all bookings and her clients.

The website will include a help page for any problems the client might find when using the website. The website will communicate with a webservice to complete requests and sent data. There will also be communication between the website and a MySQL database.

# Bibliography/References

* <https://stackoverflow.com/questions/10615136/difference-between-web-services-and-web-application>

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