A Bite of the World

Course: ProP

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Group: Nutcrackers

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# Project Statement

## Formal Client

Keri Herksic, manager or numerous companies, spread all around Europe. The companies started with his father in the Netherlands but later on expanded throughout Europe. The companies engage in all kinds of businesses but most of them are concentrated on the entertainment industry.

Mr. Herksic’s companies are currently inactive in the Netherlands but have found quite the good market in other European countries.

## Project Leader

This team consists of four people-Yidi Wu, Jiaqi Ni, Ji Nan and Kalina Petrova. The leader of this project will be Kalina Petrova. Ms. Petrova is currently a student at Fontys University of Applied Sciences in the ICT department.

## Current Situation

Currently Mr. Herksic is in possession of a number of companies, spread all around Europe. One of these companies is involved with event planning and organization. They do not have a specific group of clients or age group so it’s safe to suggest a food related event.

## Project Justification

Currently Mr. Herksic is organizing an event, which will require a number of applications to run before, during and after the event takes place. He requires a database which will store all of the information acquired during the event-the number of visitors, number of sold products, etc. He also needs a number of applications which will make it easier for the visitors to buy, reserve and borrow. These applications will make it easier for Mr. Herksic to gather visitors and to keep track of them and the merchandise he has sold.

## Project Product

The goal of this project is to provide the client with interactive easy-to-use applications that will keep track of:

* Number of total amount of visitors.
* The number of visitors currently on the event grounds.
* Profits.
* Sold products-Approximate number of sold items of each product.

## Project Deliverables and Non-deliverables

**Deliverables:**

* A database where data about the visitors and the items that were purchased.
* A working webpage with general information about the event.
* An application to be used at the entrance of the event.
* An application to be used at the entrance of the camping.
* An application to convert the information in the PayPal-text-file to the database.
* An application to be used at the shops.
* An application to be used at the stand, where you can loan materials.
* An application to be used when a visitor leaves the event.
* An application for the organization to inspect the status of the event.
* The source code.

**Non-deliverables:**

* Training for the use of the applications.
* Any other services during the event.
* Employees working with the applications.

## Project Constraints

***Oracle Database:***

For now we have concluded to use the Oracle database modeler to create our database models. We have decided to use it since our team has already some understanding on using this product, which will save up some time.

***C# Programming Language:***

We decided to use C# since it’s a really good example of an object-oriented programming language.

***HTML, CSS, JavaScript, PHP***

These will be the basic components of the website we will present at the end. The first version of the website will run only using HTML and CSS. On a later date we will add PHP and probably JavaScript to make the registration forms and payment methods.

## Project Risks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk | Probability | Impact | Risk Prevention | Alternative Scenario |
| Falling behind deadline. | Medium | High | Assign more time that is esteemed to be necessary for the activity. (Adding “buffer” time.) | Reassign task to the group members. Give additional work to idle members. |
| Illness, vacation, etc. | Medium | High | Calculate additional time in case of an unavailable teammate. | Make use of the added “buffer” time. |
| Human failure-mistakes, not enough understanding on the task given, takes too long to complete. | Medium | High | Hold team meetings frequently to make sure everyone knows what is expected of him. | Reassign task to different group member or extend the time needed for the completion of the task. |
| Insufficient communication or lack of communication plan. | Low | Medium | Create a number of online groups, gather contact data from team members. | Search for additional communication tools. Hold additional group meetings. |
| Inadequate resolution of priorities or conflict. | Low | Medium | Assign concrete roles to the team. Make sure everybody knows their responsibilities. |  |
| Unrealistic expectations from assigned resources to specific tasks. | Medium | Medium | Research the ability of the resources that are going to be used-programs, people, etc. | Remodel the task given to the resource by lowering the expected result out of the task. |
| Misunderstood requirements. | Low | High | In each meeting ask tutor or client for further specifications on each task. | Remodel the task to correspond to the requirements. Try reusing the already done work. |
| Obsolete Software. | Low | Medium | Try using reliable and frequently updated software. | Change to a different software and try to integrate already done work into it. |
| Risk | **Probability** | **Impact** | **Risk Prevention** | **Alternative Scenario** |
| Server crash. | Low | High | Use a reliable server. Test beforehand with a large number of users. | Have a professional on standby during the event to ensure immediate problem solving. |
| Data Loss. | Medium | High | Make a number of backups, consider storing the information on the web. Keep documentation about work. | Use the “buffer” time to recreate the lost information. |
| Poor response time from software. | Medium | High |  |  |
| Website not opening on a device. | Medium | Medium | Test the website on all available devices. Make a design that will ensure the work of the website on all kinds of devices. | Make an additional website design for the problematic device. |
| Supply insufficiency. | Low | High | We will make sure to gather the needed supplies before the actual compilation of the software. |  |
| Not enough time to learn needed skills for certain tasks. | Low | High | Start learning needed skills in advance to ensure enough time. | Search for alternative methods to complete the task. |

# Project Phasing

Class diagrams

M6

M5

M4

M3

M2

M1

Information

Initialization

Presenting

Presentation

How to use manual

Testing system

Program applications

Final database

Finalize website

Database model and implementation

Application Forms

First website version

Testing

Building

Design

Deliverables for milestone **M1** will be the first version of the project plan.

Deliverables for milestone **M2**:

* Detailed division of the work among the team members.
* A more accurate project plan.
* Installed Oracle Datamodeler, Oracle SQL Developer, Visual Studio 2012 Ultimate.

Deliverables for milestone **M3**:

* The first version of the website using HTML and CSS.
* Basic Model of the Database.
* GUI interface for the applications.
* Class diagram of the programs.

Deliverables for milestone **M4**:

* The final version of the website.
* Oracle database.
* C# application.

Deliverables for milestone **M5**:

* How-to-use manual.
* Information about the tests including a list of improvements.

Deliverables for milestone **M6:**

* A presentation about the project.

# MOSQUITO

## Money

1. Expenses:

* Database services:
* Setup € 50
* Maintenance € 5 per day
* Supplies:
* Laptops € 500 x4
* Network € 20 per month
* Server € 20 per month
* Software:
* Visual Studio € 400
* Oracle Datamodeler € 0
* Windows 7 € 300
* Office 2013 € 8 per month
* Programming:
* Design € 0
* Programming € 0
* Implementation € 0
* License € 0 per year
* Maintenance € 0 per year
* Disk space 2GB € 10
* Backup space € 25 per month
* Testing:
* Test environment setup € 250
* Test effort € 200
* RFID reader € 50 x 1
* RFID chips € 2 x 40
* Implementation:
* Server rollout € 0
* Support € 0
* Implementation € 0
* Documentation and instruction:
* User Manual € 50

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Total initial cost: € 3340

Total maintenance cost: € 73 per month

2. Profit:

* Doesn’t need to hire additional personnel.(3 days x 10 people x 50=€ 1500)
* Saves up time and effort for the organizers. (estimated €1000 )
* Saves up money for paper.(€ 50)

3. Additional benefits:

* Can be reused later on.
* All the information is stored in one place.(efficient and reliable)
* Potential future customer information.
* Back-up information.

## Skills

In this project we need and we can help to improve following skills:

* Organization skills.-The project manager will be in charge of organizing the project as a whole while the project leader will be in charge of organizing the personnel working on the project. We will need this skill for the whole duration of the project.
* Communication skills.-We will need this skill to correspond between the team members. The better communication we have the less likely is that misunderstanding will occur. We will need this skill during the whole duration of the project.
* Customer representative.-We will need a solid connection between the client and the group so that information regarding the needs of the client can be layout as best as can.
* Programming skills.-We will need this skill to create the necessary applications needed for this event.
* Database modeling skills.-We will need this skill to model the database which will store the visitor information.
* PHP knowledge.-This skill will be needed in the second half of the project. It will be used to connect the database to the website.
* HTML knowledge.-We will need this to make the basic wireframe of the website.
* CSS knowledge.-This will be used for styling the website.

## Quality

***Quality constrains:***

* Interactive and easy to use interface.
* We will provide with a database that can easily work with a large number of people.
* The applications we will provide will have no performance issues when provided with a large number of commands.
* The applications will not have unexpected breakdowns during usage.
* The software will not give out incorrect or invalid information.
* The design of the applications will be related to the theme of the event.
* We will involve a large number of people in the testing phase.

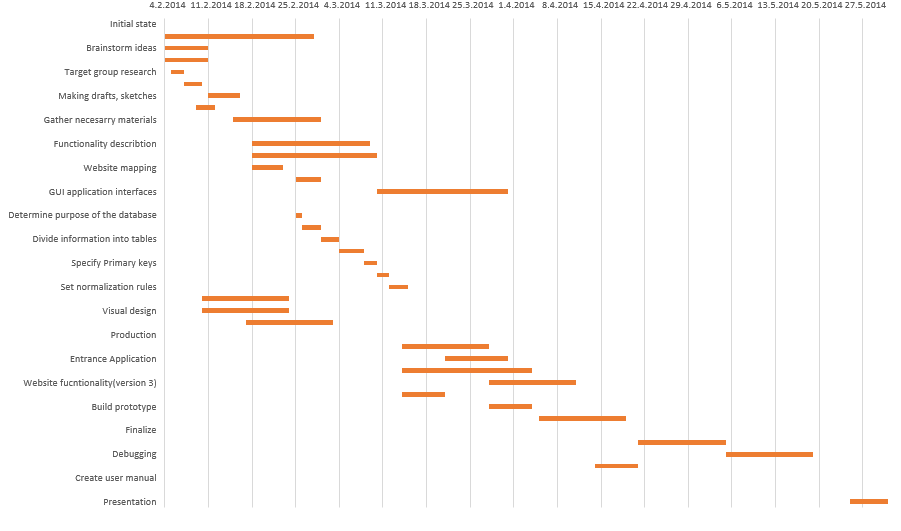
## Information

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Project Plan | Agenda | Website design | GUI | Data-model | Suggestions | Website wireframe | Presentation |
| Project Leader | Dr | R | Di | Di | Di | Di | Di | Di |
| Client | R,A | R |  | R,A | R,A | R,A | R,A |  |
| Tutor | R,A,Di | R,A,Di |  | R,A | R,A | R,A,Di | R,A | R,A |
| Designer |  |  |  | Di | Di |  | Dr | Dr |
| Developer | R | R | R | Dr | Di | Di | Di | Dr |
| DB operator | R | R | R | R | Dr | Di | Di | Dr |
| Secretary | Di,S | Dr | Dr | R,S | R,S | Dr,S | R,S | R,S |
| Representative | Di,A | R,A | Di,A | R,Di,A | R,Di,A | R,Di,A |  | Di |

(Dr-Draw up, Di-Discuss, R-Receive/Read, A-Accept, S-Send)

## Time

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Start date** | **Duration(days)** | **End date** |
| **Initial state** |  |  |  |
| Project Plan | 4.2.2014 | 24 | 27.2.2014 |
| Brainstorm ideas | 4.2.2014 | 7 | 10.2.2014 |
| Questions compilation | 4.2.2014 | 7 | 10.2.2014 |
| Target group research | 5.2.2014 | 2 | 6.2.2014 |
| Research the use of the software neded | 7.2.2014 | 3 | 9.2.2014 |
| Making drafts, sketches | 11.2.2014 | 5 | 15.2.2014 |
| Install needed software | 9.2.2014 | 3 | 11.2.2014 |
| Gather necesarry materials | 15.2.2014 | 14 | 28.2.2014 |
| **Design** |  |  |  |
| Functionality describtion | 18.2.2014 | 19 | 21.2.2014 |
| Flow charts | 18.2.2014 | 20 | 21.2.2014 |
| Website mapping | 18.2.2014 | 5 | 22.2.2014 |
| Website wireframe(version 1) | 25.2.2014 | 4 | 28.2.2014 |
| GUI application interfaces | 10.3.2014 | 21 | 17.2.2014 |
| Initial database model |  |  |  |
| Determine purpose of the database | 25.2.2014 | 1 | 25.2.2014 |
| Organize the information | 26.2.2014 | 3 | 28.2.2014 |
| Divide information into tables | 1.3.2014 | 3 | 3.3.2014 |
| Set attributes | 4.3.2014 | 4 | 7.3.2014 |
| Specify Primary keys | 8.3.2014 | 2 | 9.3.2014 |
| Set up table relationships | 10.3.2014 | 2 | 11.3.2014 |
| Set normalization rules | 12.3.2014 | 3 | 14.3.2014 |
| Interaction design | 10.2.2014 | 21 | 2.3.2014 |
| Visual design | 10.2.2014 | 21 | 2.3.2014 |
| Website design(version 2) | 17.2.2014 | 14 | 2.3.2014 |
| **Production** |  |  |  |
| Final Database | 14.3.2014 | 14 | 27.3.2014 |
| Entrance Application | 21.3.2014 | 10 | 30.3.2014 |
| Shop Applications | 14.3.2014 | 21 | 5.4.2014 |
| Website fucntionality(version 3) | 28.3.2014 | 14 | 10.4.2014 |
| QR code system | 14.3.2014 | 7 | 20.3.2014 |
| Build prototype | 28.3.2014 | 7 | 3.4.2014 |
| Test the prototype | 5.4.2014 | 14 | 18.4.2014 |
| **Finalize** |  |  |  |
| Final appearance retouch | 21.4.2014 | 14 | 4.5.2014 |
| Debugging | 5.5.2014 | 14 | 18.4.2014 |
| Checking performance issues | 14.4.2014 | 7 | 20.4.2014 |
| Create user manual |  |  |  |
| **Presenting** |  |  |  |
| Presentation | 25.5.2014 | 7 | 31.5.2014 |



## Organization

Representative

Project Leader

Tutor

Secretary

Developer

Database Modeler

Designer

Client

**Project Leader** (Kalina Petrva):Responsible for the organization of the project. She keeps an overview of the whole process. Manages the documents.

**Secretary** (Yidi Wu): Responsible for drawing up agendas, taking meeting notes, sending out documents to the tutor, client and team members.

**Representative** (Kalina Petrova, Jiaqi Ni): Responsible for communication with the client and tutor during the meetings. Serves as the role of a link between the client and the team.

**Developer** (jiaqi Ni): The developer inspires the group with innovative (and achievable) possibilities in the technical field. Investigates and makes judgments based on the functional requirements. Is responsible for the system design and its realization (hardware and software).

**Designer** (Ji Nan, Yidi Wu): The designer is responsible for the inspiration resources. Makes use of existingimage material like photos and videos.

**Database modeler** (Kalina Petrova): Responsible for drawing up the database model that will be used in the applications and website.

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