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| Project plan Traffic Lights |
| Group D |
| Monica Stoica  Alexandru Vinerean  Rosen Danev  Ventsislav Yotov  Dmytro Bunin  Blagovest Tsarev |

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# Project statement

## Formal client

Mr George is the formal client and he is the person responsible of handling the traffic situation in his city, Csharp

## Project leader

Monica Stoica is the leader of our group **S,** formed of Rosen Danev, Alexandru Vinerean, Blagovest Tsarev, Ventsislav Yotov and Dmytro Bunin. The members are students at Fontys University of Applied Science ICT&Software Engineering.

## Current situation

The formal client Mr George wants to install a new traffic light system in his city to diminish the number of accidents. Therefore, he wants to investigate whether these traffic lights will not cause too many accidents.

## Project justification

The current problems faced by Mr George and his company are the main reason of our project. Another significant point is that the client’s company has no experience with building windows applications.

## Project product

The purpose of this project is to deploy fully functional system. This should allow Mr George to simulate a real life traffic situation. This will be done according to the points read as followed:

* There have to be two types of crossing possible
* The possibility to place a minimum of 1 and a maximum of 12 crossings in a grid
* Adjustment of car-flow for every road
* Real-time traffic movement
* For every crossing the ‘green’ time of the traffic light has to be adjustable

## Deliverables

### Must

* Project plan
* Functional Website
* Database
* Application to be used at the entrance of the event
* Application to be used at the entrance of the camping
* Application to be used at the shops
* Application to be used at the stand where you can load materials
* Applications to be used when a visitor leaves the event
* Application for the organization to inspect the status of the event
* Application to convert information in the PayPal text file to the database
* Transaction history
* Process report.
* The current status of the event/attendants
* Transaction history
* Purchasing tickets online on the website
* Contact form
* Festival information
* Event account
* Website must be compatible with the latest version of Chrome and Firefox

### Should

* The website event should have a special section for workshops where members can subscribe and find information about the activities available during the event weekend.
* Visitor’s medical history
* Adjustable website design
* Tweeting possible only for attendants
* Providing the event map
* The website should compatible with all the browsers
* Refund remaining amount of money in the RFID in the visitor’s account

### Could

* Gaming event/conference
* Transfer money to credits (0.50€ = 1 credit)
* Subscribing for volunteering
* “Press“ page

## Non-Deliverables

### Won’t

* Design the software for PayPal terminals found at the event site
* Supply PayPal terminals
* Supply RFID bracelets
* RFID readers
* Paper receipts
* Information about transportation to and from the event
* Accommodation
* Sponsors
* Event organizing
* Supplies
* Software for the employees
* Material for the pc doctor
* RFID bracelets
* RFID readers
* Medical assistance
* Security

## Risks

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| --- | --- |
| Risks | Alternative scenario |
| The “workshops”, “press” and “volunteers” section may not be fully functional | Release the website without them. |
| There might appear some problems with the system during the event. | Technical support |

## Constraints

1. Language

The windows application will be available only in English because our team has no knowledge of Dutch.

1. Programming Language

Due to our knowledge with Visual Studio we will use as programming language C#.

# Project Phasing

*Building*

*Analysis*

*Design*

*Testing*

*Deploy*

*Initiation*

*Start-up the project*

*Build Website*

*Design Website*

*Testing the system*

*GUI design*

*Deploy the system*

*Build Database*

*Design Database*

***M1***

*Write the user’s manual*

*Project plan*

Design Apps

*Build Apps*

***M2***

***M3***

***M5***

***M4***

***M6***

Deliverables for milestone **M1** are:

* Detailed division of work amongst team members.
* Specified user requirements (i.e., which functionality does the new software system has to offer).

Deliverables for milestone **M2** are:

* GUI design
* The Project plan

Deliverables for milestone **M3** are:

* Class diagram for the software program with description of every class
* Entity-Relational diagram for the database with description of tables, columns and column type
* Diagram with the Description of the website and all subpages in it.

Deliverables for milestone **M4** are:

* Build first and second version of the website (HTML, CSS, PHP & JQUERY)
* Implement database by using Oracle
* Build applications by using Visual Studio (C#)
* Deliver the set-up document

Deliverables for milestone **M5**are:

* Test report. (Including all succeeded tests and all failed ones. Also deliver list of improvements.)
* Brief description of the user interface

Deliverables for milestone **M6** are:

* Process report
* A deployed system consisting of the Website, C# applications and Oracle database running for the event
* Present the project in front of Mr. George and his staff.

## Time

1. It is estimated that this project will last 19 weeks. (February – July). The project will start on the 9th of February. The start date of the event is the 3rd of July.
2. Time planning for project activities is as follows:

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| --- | --- | --- |
| WEEK | ACTIVITY | MILESTONE |
| Week 1  09.02.2015 – 15.02.2015 | Division of work | Milestone 1 |
| Collect information about the event |
| HOLIDAY TIME  16.02.2015-22.02.2015 |
| Week 1 – 4  09.02.2015 – 15.03.2015 | Project Plan | Milestone 2 |
| Week 5 – 7  16.03.2015 – 05.04.2015 | GUI designs for the applications |
| Week 5  16.03.2015 – 23.03.2015 | Database design | Milestone 3 |
| Website design |
| Week 5 – 7  16.03.2015 – 05.04.2015 | Build the first version of the website and database | Milestone 4 |
| Week 7  30.03.2015 – 05.04.2015 | Deliver the set-up document |
| EXAM TIME  06.04.2015 – 19.04.2015 |
| Week 10 – 14  20.04.2015 – 31.05.2015 | Build the applications  Build the second version of the website | Milestone 4 |
| HOLIDAY TIME  04.05.2015 – 10.5.2015 |
| Week 15  01.06.2015 - 07.06.2015 | Test report  Brief description of the user interface | Milestone 5 |
| Week 16  08.06.2015 – 14.06.2015 | Eventually modify the database and the website |
| Week 17  15.06.2015 – 21.06.2015 | Process report | Milestone 6 |
| Week 18-19  EXAM TIME  22.06.2015 – 05.07.2015 | Deploy the system |
| Present the project |

1. In parallel to project activities, several types of meetings will take place:

a. Weekly progress meeting

b. Reporting to customer

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