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fONTYS UNIVERSITY OF APPLIED SCIENCE

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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 **D,** 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
* User requirement specification (URS)
* Test Plan
* Design
* C# Application

### 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
* 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

* Traffic lights
* Sensors

## Risks

|  |  |
| --- | --- |
| 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*

*Testing the system*

*User requirements*

*GUI design*

*Deploy the system*

*Class Diagram*

*Test plan*

***M1***

*Write the user’s manual*

*Project plan*

*Build App*

***M2***

***M3***

***M5***

***M4***

***M6***

Deliverables for milestone **M1** are:

* Detailed division of work amongst team members.
* First version of Project Plan
* Interview with the client

Deliverables for milestone **M2** are

* Second version of Project plan
* First version of user requirements (i.e., which functionality does the new software system has to offer).
* Test plan

Deliverables for milestone **M3** are:

* GUI Design
* Final version of user requirements
* Test plan final version
* Class diagram design

Deliverables for milestone **M4** are:

* Implement of the design
* Prototype

Deliverables for milestone **M5** are:

* Application for traffic lights system
* Process report

Deliverable for milestone **M6** are:

* A deployed system consisting of C# application.
* Present the project in front of Mr. George and his staff.

## Time

1. It is estimated that this project will last 15 weeks. (February – July). The project will start on the 17th of February.
2. Time planning for project activities is as follows:

|  |  |  |
| --- | --- | --- |
| WEEK | ACTIVITY | MILESTONE |
| Week 1  177.02016 – 21.02.2016 | Division of work | Milestone 1 |
| Research about the traffic components  Project plan first version  Client interview |
| Week 2  22.02.2016 – 28.02.2016 | Project Plan second version  First version of user requirements | Milestone 2 |
| Week 3  29.02.2016 – 06.03.2016 | Final version for project plan and URS |
| Week 4 – 5  07.03.2016 – 20.03.2016 | Test plan |
|  |
| Week 6  21.03.2016 – 27.03.2016 | Class diagram design  GUI design | Milestone 3 |
| Week 7  28.03.2016 – 03.04.2016 | Deliver project plan together with URS, test plan and design |
| EXAM TIME  04.04.2016 – 17.04.2016 |
| Week 10  25.04.2016 – 30.04.2016 | Implement the design | Milestone 4 |
| HOLIDAY TIME  02.05.2016 – 08.5.2016 |
| Week 11-13  09.05.2016 - 29.05.2016 | Work at the application and show the first version | Milestone 5 |
| Week 14-15  30.05.2016 – 12.06.2016 | Work at the application and hand in the final version  Preparing presentation  Process report |
| Week 16  13.06.2016 – 19.06.2016 | Final presentation | Milestone 6 |
| Week 17-18  EXAM TIME  20.06.2016 – 03.07.2016 | Deploy the system |
| Present the project |

***Note: Every milestone will be presented within couple of days after the deadline.***

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

a. Weekly progress meeting

b. Reporting to customer

# Division of tasks

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Task: | Rosen | Monica | Dmytro | Alexandru | Blagovest | Ventsislav |
| Project Plan | x | X | X | X | X | x |
| URS |  |  |  |  |  |  |
| Class diagram design |  |  |  |  |  |  |
| Test plan |  |  |  |  |  |  |
| UML Design |  |  |  |  |  |  |
| GUI |  |  |  |  |  |  |
| Prototype |  |  |  |  |  |  |
| Code implementation |  |  |  |  |  |  |
| Process Report |  |  |  |  |  |  |
| Presentation | X | X | X | X | X | X |

# Information table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Agenda & Minutes** | **Project plan** | **Test plan** | **UML Design** | **GUI** | **Deliverable** | **Process**  **Report** |
| *Formal client* | R | A,R |  |  |  |  |  |
| *Project leader* | A | A,S |  |  |  |  |  |
| *Project team* |  | Di |  |  |  |  |  |
| *Secretary* | Ar, S | Ar |  |  |  |  |  |

*(Dr=Draw up, Di=discuss, A=Approve, R=receive/read, Ar=archive, S=Send)*

# Organization

|  |  |  |  |
| --- | --- | --- | --- |
| Must | Could | Should | Wont |
| Project Plan |  |  |  |
| URS |  |  |  |
| Test plan |  |  |  |
| Prototype |  |  |  |
| Functional  Application |  |  |  |
| Presentation |  |  |  |
|  |  |  |  |
|  |  |  |  |