**Pipeline in a flow network**

**Submitted to:**

Mr.Ravelo Sanchez Jesus

**Prepared by:**

Armin Roshan

Bilal Butt

Ngoc Kieu Thanh Huynh

Raima Khan

**27th June 2016**

Table of Contents

[Executive summary](#_Executive_summary)

[Introduction](#_Introduction)

[**Understanding with Coach**](#_Understandings_with_the)

[**Teamwork**](#_Team_work)

[Division of labor](#_Division_of_labor)

[Problems we faced](#_Problems,_we_faced)

[Personal view](#_Personal_views)

[Conclusion](#_Conclusion)

# Executive summary

We are writing this report to summarize our progress in “Pipeline in a network “ project. This project is requested by Fontys school of Applied sciences. Mr. Sanchez is our coach for this project. We tried our best in fulfilling all the requirements .We have successfully created an application that builds a flow network consisting of pipelines and components.

Furthermore, we will describe short introduction of the project. We will discuss our understanding with coach .We will narrate at which certain moment we faced difficulty. We will talk about individual effort by each group member.

Finally ,in this report ,you can find every group member’s personal point of view for project.

# Introduction

This application allows the user to make a drawing sketch of a network for a fuel transportation system. It helps the user to simulate a network containing components, including pump, sink, splitter, adjustable splitter and merger.

Together the components and their associated pipelines would allow the user to create a simulation for a network for the transportation of fuel. The application will help users connect and manage the amount of fuel of every pipeline. The application will give constant feedback on the flow of the system for each pipeline, including checks on occurrences of overflow.

# Understandings with the Coach

During all meetings , Mr. Sanchez helped us a lot in making our solution the best .He always tried to enhance our confidence .His suggestions always take into consideration .

# Team work

For good progress of project good teamwork matters a lot .Our group members contributed a lot for successful completion of the project. Everyone cooperated with each other .

# Division of labor

The assignment was divided into 4 sub parts: User Requirements Specification document ,Design document , final implementation and process report .We divided the whole work within group members .

Here below you can see major activities of our project performed by each group member.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Major Tasks** | **Armin** | **Bilal** | **Raima** | **Thanh** |
| **Introduction** |  |  |  |  |
| **Functional requirements** |  |  |  |  |
| **Non-Functional requirements** |  |  |  |  |
| **Class diagram** |  |  |  |  |
| **Class description** |  |  |  |  |
| **Sequence diagrams** |  |  |  |  |
| **FileHandler class** |  |  |  |  |
| **Component Class(including child classes)** |  |  |  |  |
| **Network class** |  |  |  |  |
| **Pipeline class** |  |  |  |  |
| **PipelineSystem class** |  |  |  |  |
| **Form class** |  |  |  |  |
| **Progress report** |  |  |  |  |

# Problems, we faced

The only major problem that we faced in the whole process was “time management” .Some group members had different schedules , so it was quite hard for us to arrange such time where everyone is free.

Otherwise almost everything went surprisingly perfect .

# Personal views

**Armin:**

**Bilal:**

**Thanh:**

**Raima:**

This project proved really helpful for me.I gained a lot of knowledge in the field of documentation .And after this project I am convinced that documentation is key to successful implementation of the project .

# Conclusion

Overall, the team feels the project has been a success. A great deal of knowledge has been gained through the trails of this project ,these lessons will be invaluable in future endeavors.