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Design document

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# INTRODUCTION

This document is the design document for building a flow network application.

In the first section of this document, the class diagram of application are represented by diagrams and their brief description. The second section presents some sequence diagrams.

# CLASS DIAGRAM

## Class diagram

## Description of the classes and their members

#### COMPONENT CLASS

|  |  |  |
| --- | --- | --- |
| Properties | | |
| ID | Integer | This is unique number to indicate the components of each network drawing. It is increased automatically when the component is added |
| Location | Point | Represents an ordered pair of integer x- and y-coordinates that defines a location of components on the screen |
| Operations | | |
| Component(id: int, location: Point): constructor of the class | | |

#### PUMP CLASS

|  |  |  |
| --- | --- | --- |
| Properties | | |
| ID | Integer | This is unique number to indicate the components of each network drawing. It is increased automatically when the component is added |
| Location | Point | Represents an ordered pair of integer x- and y-coordinates that defines a location of components on the screen |
| Operations | | |
| Component(id: int, location: Point): constructor of the class | | |

# SEQUENCE DIAGRAMs

## Draw a component

