­­­­VIA UNIVERSITY COLLEGE

ICT ENGINEE­RING

# Project Description

Internship 101

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## Project Description

### Background description

At the moment when a student at university needs to find an internship, he has several few options. Either a teacher can suggest companies with internships to the student that the teacher knows and then recommend the student to the company, and guide the student to apply for that company and for that internship. Or either the student must rely on personal network to find an internship in the near proximity (that is, the same town or country) or sometimes even abroad in less cases. This means that the student must talk to older colleagues that have already been through the practical placement period and receive from them feedback (that is, impressions, comments, suggestions).

The lack of a centralized system of internships has led to a problem that almost all students face when the time comes to choose an internship.

The student’s reliance on teachers or their own network to find an internship is a major issue in our society as we know it today. An alternative to this approach is to search the World Wide Web with the hope of finding the right internship or the most suitable one. And having at their disposal hundreds or even thousands of web sites to look at and to choose from is not a valid solution either.

The need of a centralized system in this scenario is obvious.

Purpose

The purpose is to create a centralized system of internships that connects students with companies.

### Problem formulation

The project focus is to create an application that serves the purpose of creating a centralized system that connects students with companies.

Questions to be answered are the following:

* How to make data available for download or presentation?
* How to make data selection uniformly for all building envelopes (different underlying database structure)?
* How to make the system maintainable, i.e. relatively easy to include data from other sources?
* How to make the system scalable – e.g. from 2 to 20 building envelopes?

### Delimitation

* Data sets will not contain other values than temperature and relative humidity.
* The system will not include any data collection directly from data loggers but only from databases.

### Choice of model and method

|  |  |  |
| --- | --- | --- |
| **What**  Partial problem | **Why**  Why study this problem? | **Which**  Which models/theories are expected to be used to solve the problem? |
| How to make data available for download or presentation | Main feature of the system | Examining data from (Demohouse Nexø - Fugt, 2011).  Set up requirements for data.  Use Case Modelling. |
| How to make uniform data selection | Easy access for data coming from different sources | Inspect similarities between data from different sources.  UML class modelling.  Client/server architecture.  Design patterns. |
| How to make the  system maintaina-  ble | Easy to include data from new sources after first release | Use Case modelling and class diagrams for admin module or similar. Design patterns.  Database design. |
| How to make the system scalable | Program structure independently of number of sources | UML class modelling and class diagrams for a large scale system with the ability to be used in small scale.  Design patterns. |

### Time schedule

The phase plan is estimated as follows:

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Inception start



17

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Inception end

Elaboration start



7

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6

Final deadline



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6

Estimated

Construction end



27

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5

Estimated

Elaboration end

Construction start Transition start

### References and expected sources