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| Project approach  Online Learning Platform | Prince2  Author: åsa wegelius  Owner: åsa wegelius  Version: 1.0.1 |

# Project Approach History

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| version | Revision date | Implemented by | Reason |
| 1.0.0 | 01-03-2016 | Åsa Wegelius | First draft. |
| 1.0.1 | 4-03-2016 | Åsa Wegelius | Added Project Approach and Development environment |
| 1.0.2 | 17-03-2016 |  | Rewrote project approach |
|  |  |  |  |

## Approvals

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| --- | --- | --- | --- |
| Version | Name | Title | Date |
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## Distribution

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| --- | --- | --- | --- |
| Version | Name | Title | Date |
| 1.0.1 | Jarl Tuxen | Steering Commitee | 04-03-2016 |
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# Purpose

We will outline the constrains on the product, things that affect how the project is run and the nature of the final deliverable.

# Project Constrains

## Hardware constrains

Processor: Intel® Core™ i7-2600K CPU @ 3.40GHz 3.40 GHz  
RAM: 12.0 GB  
System type: 64-bit operative system Windows 7 Ultimate

## Software constrains

The system will run on an Apache Tomcat 8. We will not need

* An application container that supports EJBs.
* Two-phase commit.

We will use open-source monitoring tools like [MoSKito](http://www.moskito.org/) and/or [Nagios](https://www.nagios.org/). Apache Tomcat 8 will therefore be a sufficient choice of an application container.

Apache Tomcat have a recommended upper limit of 500 simultaneous users. If we estimate a higher amount of simultaneous users, we need to look at a distributed solution with two or more servers.

## Recourses

It is a study project so there is no salary involved. No hardware investment is required. The recourse constrain is therefore man-hours. We have five persons available. They are available for 1h/day up until 06/05/16. And they are available 7h/d after that up until delivery day which is 01/06/16. That gives a budget of 810 man hours counting from the start of the project.

## Security

There will be no sensitive information or technologies involved in the project. The security level will therefore be low. We will for example use a public repository on GitHub.

## Type of solution

We are going to design from scratch and use company staff.

# Project Approach

The two hard constrains are time and money. We cannot pay for software licenses or tools and have limited time for staff training. We need to choose free familiar solutions for our project.

## Development Environment

|  |  |
| --- | --- |
| item | Applied for |
| Methods: |  |
| Use Case | Requirement capturing |
| User Story | Requirement capturing |
| Supplementary Specification | Requirement capturing |
| Class diagram | Data modeling |
| Backlog | Requirement capturing |
|  |  |
| Tools: |  |
| NetBeans | Construction |
| MySQL Workbench | Construction |
| GitHub | Version control |
| Draw.io | Modeling |
| Pencil Project | GUI modeling (mockups) |
|  |  |
| Languages: |  |
| Java | backend |
| MySQL | DBMS |
| HTML5 | frontend |
| JavaScript | frontend |
| CSS | frontend |
| LESS | frontend |