**Applied object-oriented programming (EEN060)**

*Tillämpad objektorienterad programmering*

**Final Project**

# Project group – First deadline

## Group

1. Name of student
2. Name of student

# Project idea – Second deadline

Project title

Simple blog for multiple writers

## Project description

Here the students should provide a general description of the project. The following questions must be answered by the provided description:

* What is the general area where the project fits?
* What is the specific problem and/or limitation to be tackled by the project?
* How the project contributes to the problem?
* What are the main actors expected to use the system?
* What are the classes you estimate for your project?

Example of description (note that here the answers are in text format, but you may prefer to leave them in bullet points – it’s up to you to decide the format):

The blog project imagined for this project falls within the broad area of content production for the Internet, in particular, text production. The project aims at the problem of making available the blog posts to web users without costs. At the same time, the project provides means for users to share their texts freely.

The main actors using the system are the reader and the writer. Readers are users who access the system to have access to the blog posts, and they do not need to be registered in the system. However, if readers want to leave a comment to the post, they will be required to have register in the system. Writers, on the other hand, need to be registered and authenticated in the system to be able to write blog posts.

Three classes are envisioned for the system. The first one is the “User” class, which models the data about the users of the system. The second is the “Post” class, which will contain all the information related to the posts written in the system, including a reference to the particular user who wrote the post. Finally, the “Comment” class will contain all the information related to the posts, including text, a reference to the user who posted this comment, and a reference to the post which this comment refers to.

# Project Proposal – Database Description – Third deadline

Here the students should provide a list containing the tables expected to be included in the project. For each table, should provide each column and their respective data type and any specifics of the columns (whether they are required, foreign keys, length limit, etc.) Comments can be added to the tables/columns if needed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table: | User | | |  |
| Column name | **Data type** | **Constraints** | **Default** | **Comment** |
| id | int | primary key, not null | auto increment |  |
| username | varchar(20) | unique, not null |  |  |
| email | varchar(120) | unique, not null |  |  |
| image\_file | varchar(20) | not null | default.jpg |  |
| password | varchar(60) | not null |  | Hashed password |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table: | Post | | |  |
| Column name | **Data type** | **Constraints** | **Default** | **Comment** |
| Id | int | primary key, not null | auto increment |  |
| title | varchar(100) | not null |  |  |
| date\_posted | datetime | not null | now |  |
| content | text | not null |  |  |
| content\_type | varchar(20) | not null |  |  |
| user\_id | Int | foreign key (User), not null |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table: | Comment | | |  |
| Column name | **Data type** | **Constraints** | **Default** | **Comment** |
| id | int | primary key, not null | auto increment |  |
| content | text | not null |  |  |
| date\_posted | datetime | not null | now |  |
| user\_id | int | foreign key (User), not null |  |  |
| post\_id | int | foreign key (Post), not null |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table: | Your table goes here | | |  |
| Column name | **Data type** | **Constraints** | **Default** | **Comment** |
| id | int | primary key, not null | auto increment |  |
| name | varchar(60) | not null |  |  |
| x | y | z | w |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table: | Your table goes here | | |  |
| Column name | **Data type** | **Constraints** | **Default** | **Comment** |
| id | int | primary key, not null | auto increment |  |
| name | varchar(60) | not null |  |  |
| x | y | z | w |  |

# Final Project – Fourth deadline

For the final project, you should create a zip file containing the project folder and this file.

Remember to update any of the information above to reflect the submitted project.