



# Professional Software Engineering

## Lecture 6: Exercise

For this week, in groups of two, your task is to create a UML class diagram that represents a simplified class hierarchy of your Moodle home page (<https://www.moodle.tum.de/my/>). Use [lucidchart.com](https://lucidchart.com) to create your class diagram.

The class hierarchy should contain classes to represent the following parts of the webpage:

1. Home page
2. Container
3. Timeline
4. Course List
5. Assignment List
6. Course
7. Assignment
8. Course Material (lectures, announcements, etc.)

Below are a few hints that can help you while constructing your UML diagram.

- *Home Page* contains one of each of the following: *Assignment List*, *Course List*, and *Timeline*.
- *Assignment List*, *Course List*, and *Timeline* inherit from the abstract class *Container*.
- *Course List* contains multiple instances of *Course*. Same idea for *Assignment* and *Assignment List*.
- Some classes may have multiple inheritances or relations.
- Think of some of the properties and methods that these classes can have and state them in the UML diagram (refer to the lecture slides).