

48433 Software Architecture

Tutorial 2 – Conceptual Architecture

In this tutorial, you are learning how to think of a software system from the perspective of its conceptual architecture. You will practise how to derive a conceptual architecture view diagram from a system narrative; identify conceptual component responsibilities, and construct data models.

By now, you should have formed into teams and chosen a system to work on. During this session, you must form into a team if have not already done so.

1. Initial conceptual architecture

(75 minutes)

Form into groups consisting of your project team. You will be using the procedure described in the lecture to produce an initial conceptual architecture. That is:

1. Underline key concepts on the system narrative.
2. Write them onto a separate sheet of paper and brainstorm about which ones are components.
3. Draw them on a sheet of paper and draw connections between them.
4. Label the connections.
5. Write down responsibilities for each component.
6. Present your architecture on the whiteboard for the rest of the class.

2. Data models

(Approximately 45 minutes)

In this section of the tutorial, we will elaborate on the conceptual architecture you have come up with so far by defining one or two simple conceptual data models.

For next time

For the next tutorial, you must complete a set of index cards, each labeled with the name of a component and with a list of responsibilities.