

# Emerging Trends Research

## Domain-Driven Design

Author: Denny Cox  
Class: S6-RB10  
Semester: 6

## Research Plan

### Problem/opportunity

Since it is my first time making enterprise software it interested me to find out if Domain-Driven Design is an approach for software development that could be used in every type of project, since it focusses on the designs of the models in a domain. This could be very helpful to have a strategy you can always use from the start of a software project and could potentially have benefits like saving time or making the scope of the project easier to understand and have a better basis for a project. The disadvantages are also something I want to research. I am interested in how exactly this strategy is carried out in a project. Next to this also want to know if there are alternatives to Domain-Driven Design. In the end, I want to know if I can make good use of it myself with future software projects and try it out on my individual school project.

### Research questions

The main question would be: How can Domain-Driven Design improve the development of an enterprise software project with a microservice architecture? Corresponding sub-questions are:

- How should Domain-Driven Design be applied?
- What advantages and disadvantages does using Domain-Driven Design have?
- What are alternatives to Domain-Driven Design?

### Research methods

The strategies that I will be using are the library and the workshop Research. The research methods I want to apply for this research are literature study, best, good & bad practices, prototyping

### Deliverables

For the deliverables of the research, I will deliver a research report where I work out the theoretical outcomes of the questions. Next to that I will also implement the outcomes to validate the findings with implementing it myself in my individual project. This would be prototypes in the form of diagrams or drawings.

### Time estimation

The research for the emerging trends is done next to my individual project so I will not be working on it full time. In total I expect to work 1 sprint (3 weeks) on the research.