

# System Design Document - Yellow Project

William Diedrichsen Marstrand, Dennis Thinh Tan Nguyen,  
Jacob Mullit Miniche, Thor Valentin Olesen

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## **1 Introduction**

## 1.1 Purpose of the System

In **AUTOSYS**, the main client is the **SystemReviewClient** who needs to set up a **STUDY** consisting of one or several **PHASES**. A **PHASE** will consist of one or more **TASKS** which need to be completed before moving on to the next **PHASE**. The **StudyParticipants** can work in different **ROLES** which we anticipate will be either as **REVIEWER** or **VALIDATOR**. Also the **StudyParticipants** will be working together on a **STUDY** in **TEAMS**, but multiple teams will not be working on the same **STUDY**. Furthermore **TEAMS** working on the same **STUDY** will be considered as one big **TEAM**.

## 1.2 Design Goals

- **Ease of use:**

Goal: it should be relatively easy to setup a study configuration because it makes up the foundation that all study work processes rely on.

Trade-off: the end user may have a low level of computer expertise potentially resulting in the wrong setup of a study. This can happen because the user cannot find or access the resources required for setting up a study or they become frustrated if they have to go through many windows. However, these usability traits should not compromise with the system functionalities. The system must still be sufficiently complex in order to provide a variety of ways to setup the configuration. A primary focus on usability traits has been chosen due to the scope and time span of the project. This design goal is a refinement of the non-functional requirement "usability" in Requirement Analysis Document (section 3.3.1).

- *High Reliability:* To make it possible to work with data even if you have no internet connection. Auto save of configuration data.
- *Scalability in terms of the amount of users, teams, and roles:*
- *High performance for data request processing time:* indexing in the database,

## **2 Current Software Architecture**

## **3 Proposed**