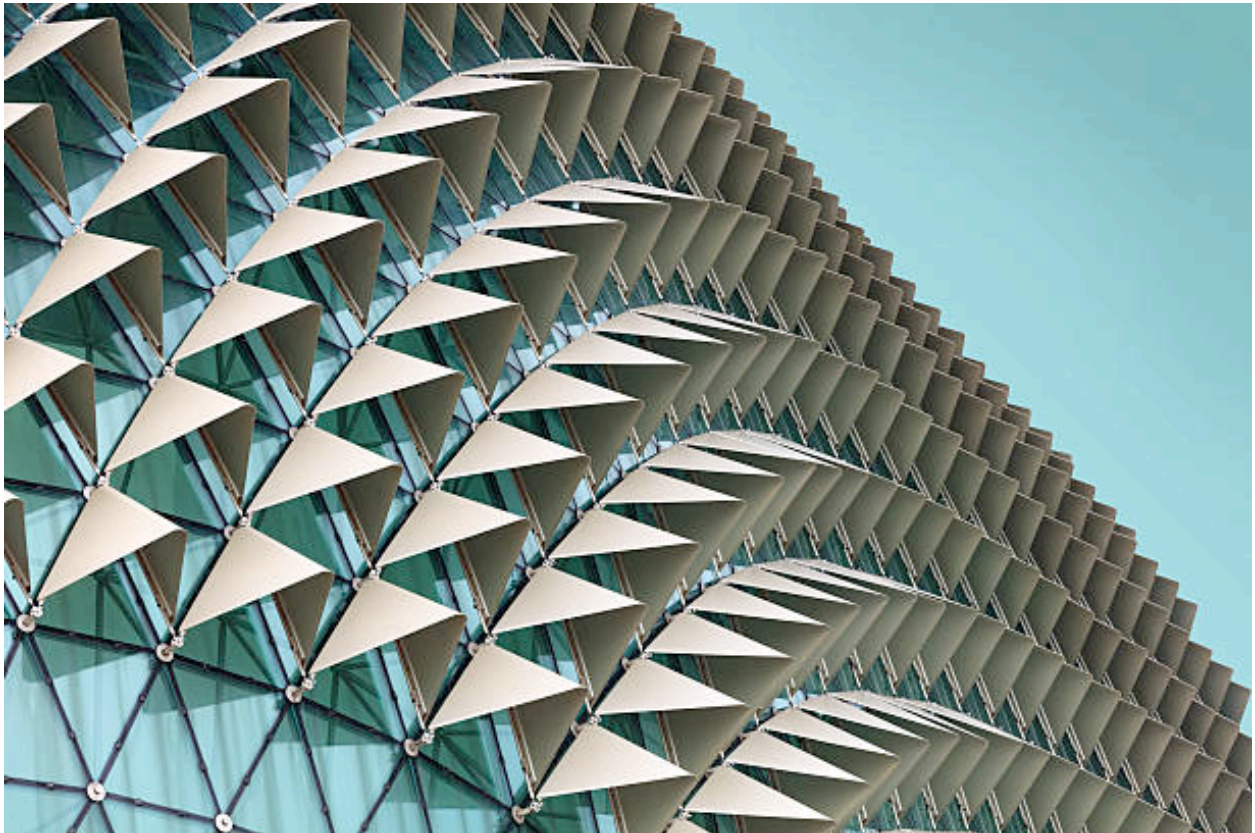


# Preliminary Project Report

Database Management Systems



Group 22

November 19, 2025

# Project Title

“HCI Insights”

## The Problem and Domain

Human-Computer Interaction workflows are sometimes scattered among several different applications and services, limiting scalability and efficiency. How can we create a smooth and interactive application that assists HCI and UX/UI researchers? Our web service will operate within the design, management, execution, and analysis of usability studies for different products and services.

## Our Solution

This web application strives to centralize the workflow of HCI/UX/UI research teams by facilitating the planning, execution, and analysis of usability studies. It handles participants, tasks, subtasks, sessions, results, studies, and users - all backed by a MySQL database that is exposed through a secure SpringBoot framework.

## Technologies Utilized

SpringBoot, Mustache, MySQL, Java, Maven, JDBC, Git + Github, Docker, \*\*\*

\*\*\* Additional technologies may be utilized after this Preliminary Project Report is published \*\*\*

# Entity-Relationship Diagram (Preliminary)

