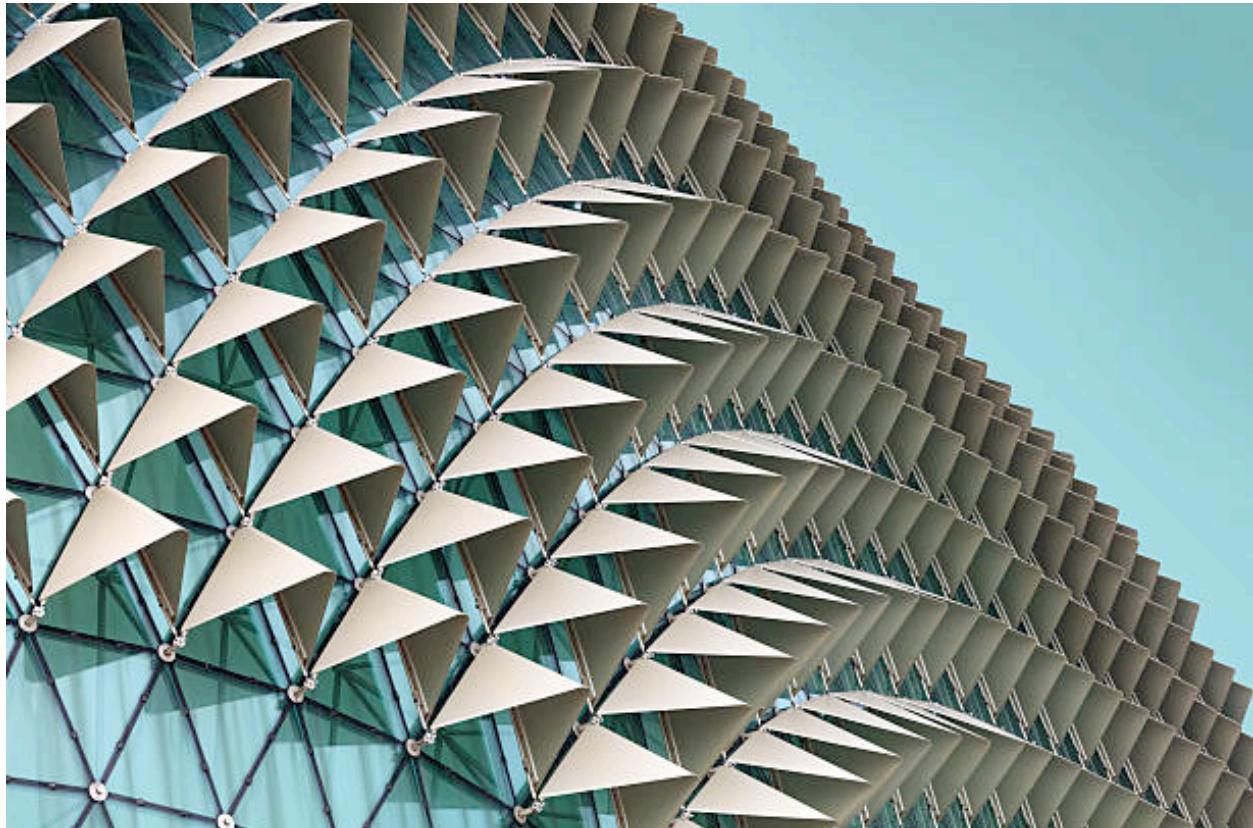


Preliminary Project Report

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)

