

**Istanbul Sehir University**

**College of Engineering and Natural Sciences**

**ENGR497**[**Global Design Project I Analysis**](https://sehir.edu.tr/tr/akademik/muhendislik-ve-doga-bilimleri-fakultesi/endustri-muhendisligi/endustri-muhendisligi-ingilizce-programi/ders-plani)

**Project Proposal Template**

Title of the Project

*“Exam Administration System “*

Group Members

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1. Aim of the Project

Main aim of the project is developing an electronic exam system for faster and reliable evaluation, detailed anti-cheating analysis, less paper usage and more student-friendly environment. We develop it for Programming Based Lectures first then implement into other lectures.

1. Approaches to the problem solution

We create 2-sided application which are a Server-Side app and a Client-Side app. In client-side, there will be a GUI for students and teachers separately. Students will see questions and be able to write answers and test them (for Programming Lecture). Teacher can monitor some information from students. Server-Side will be responsible to compile and test answers, at the same time collecting exam data and analyzing them to reveal potential problems (cheating etc.).

1. Software/Hardware Requirements

* Software:
  + Python
  + IDE for Python
  + PyQT for GUI design
  + SciKit for handling Machine Learning parts
  + Git for organize project
  + Flask for Localhost Server setup
* Hardware:
  + Computer with a Network Connection
  + Server

1. Draft Time Plan

* First semester: Planning, Researching, GUI, Basic Security Concepts, Introductory Machine Learning Functionalities, Programming Lectures Support
* Second Semester: Full Anticheating System, Server-Client Applicable interaction, Test and Debug, Extra Features