



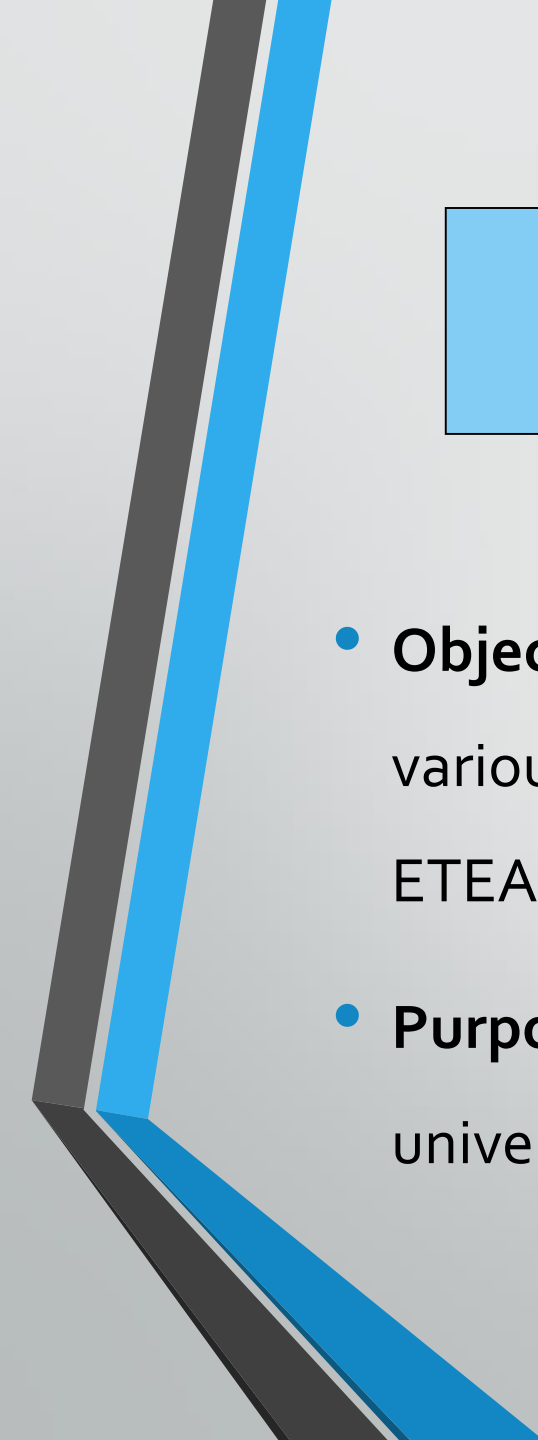
OBJECT ORIENTED PROGRAMMING PROJECT

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Project Title: University Aggregate Calculation System

- **Objective:** This project aims to create an aggregate calculation system for various universities in Pakistan (FAST NU, NUST, GIKI, ETEA Medical, and ETEA Engineering).
- **Purpose:** The purpose of the system is to automate the calculation of university aggregates based on matric, Fsc marks, and test scores.

Problem Statement

Current Problem: Many students manually calculate their aggregates for university admissions, which can be time-consuming and prone to errors.

Proposed Solution: A software tool that calculates aggregates for multiple universities based on the marks entered by students.



Project Features

Universities Covered:
FAST NU, NUST,
GIKI, ETEA
Medical, ETEA
Engineering.

Inputs:

- SSC and HSSC marks.
- Test scores (specific to each university)

Outputs:
Aggregate score
for each
university.

Flexibility:
Students can
select their
university and get
the calculated
aggregate in real-
time.

HOW IT WORKS?

User Input:

- Enters Matric and Fsc marks.
- User selects the university from the menu.
- Enters specific test scores based on the university.

Calculations:

- The system calculates the weighted aggregate score based on the university-specific formula.

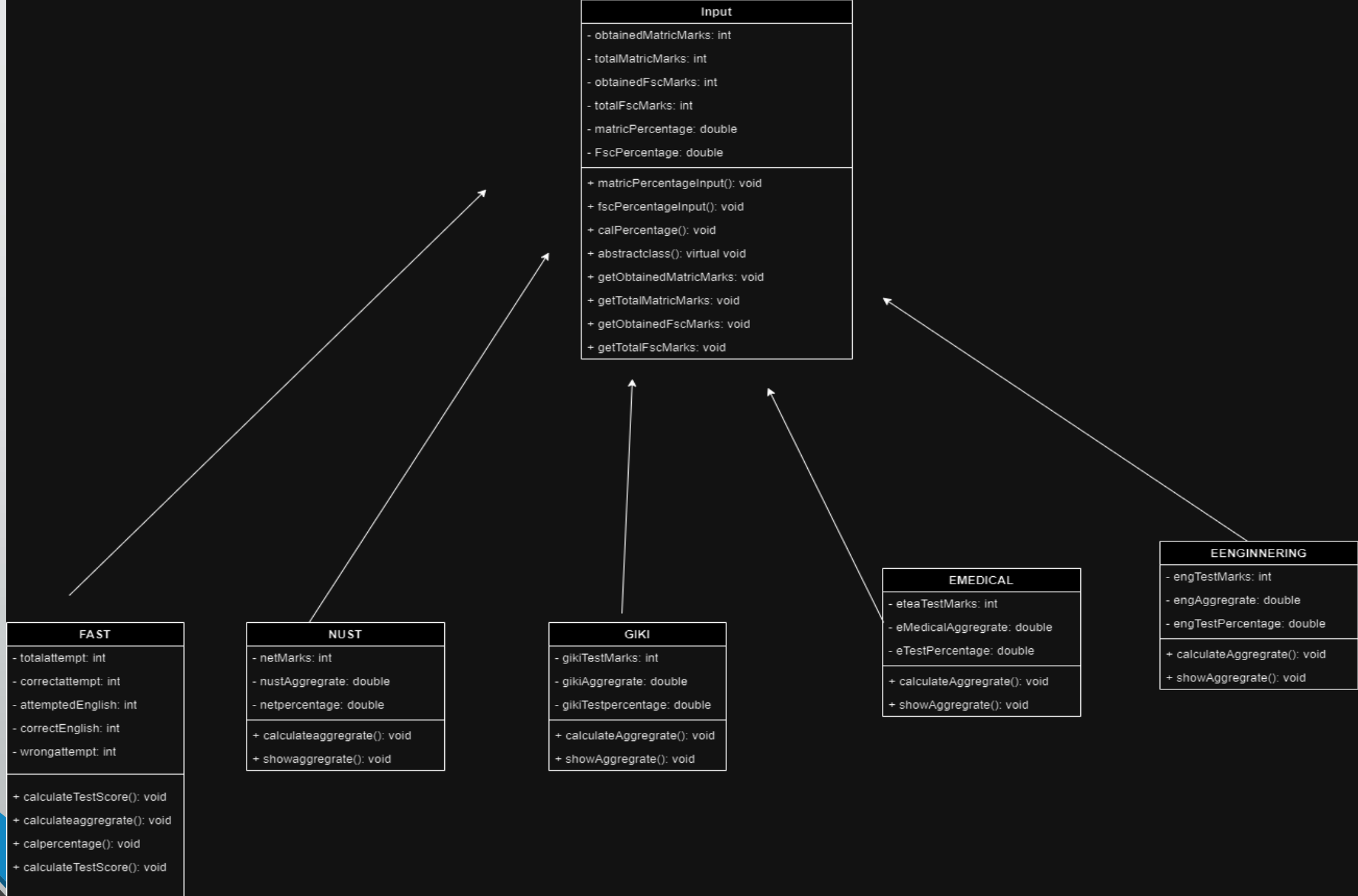
Results:

- The system displays the calculated aggregate score for the selected university.

CONCEPTS OF OOP WE USED

- CLASSES AND OBJECT
- INHERITANCE
- POLYMORPHISM
- ENCAPSULATION
- COPY CONSTRUCTOR
- ABSTRACT CLASS
- DYNAMIC MEMORY ALLOCATION

CLASS DIAGRAM





THANK YOU!