VISUAL PROGRAMMING PROJECT DOCUMENTATION STAGE 4

Project Name: Student Information System

Student ID: 1031510030

Student Name: Büşra Yıldırım

1. Project Definition and Purpose

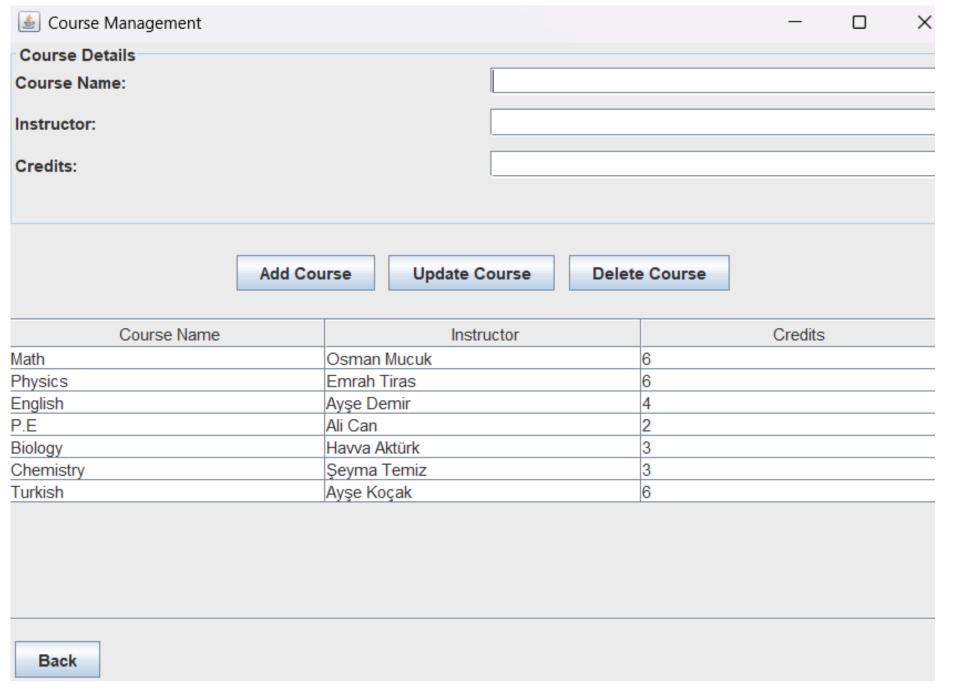
This project is a Student and Teacher Management System designed to simplify academic processes in Highschool envirioment. It includes features like managing students, courses, and grades, as well as generating PDF reports based on specific criteria. The system provides separate interfaces for teachers and students, making it easy for teachers to add courses, record grades, track attendance, and generate detailed reports. Students can view their grades, attendance records, and transcripts, with the option to export these as PDF files.

First of all, in this project, we created 1 teacher and 10 students as default in a table in our database and assigned a password to each of them.and the events performed for each user are recorded instantly in the database.

Teacher and Student Functionalities Teacher Functionalities

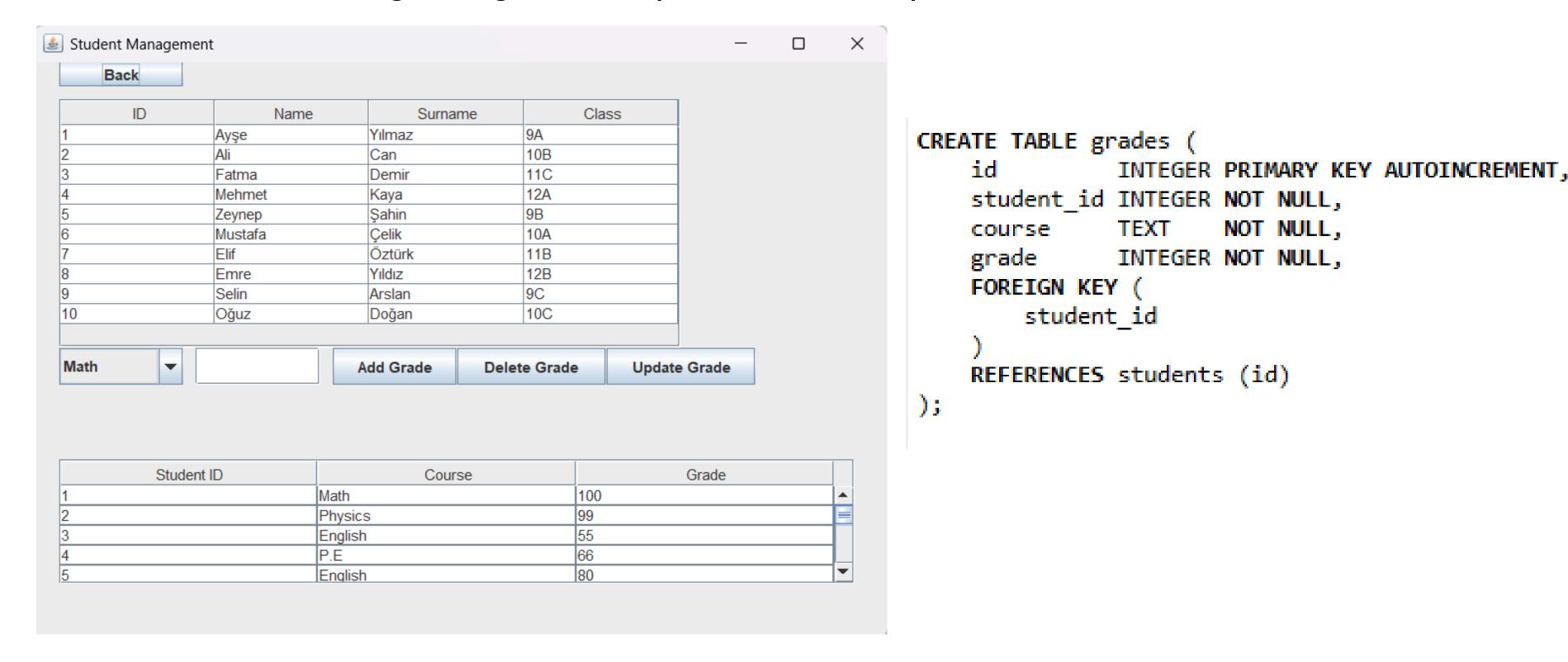
1-) Course Management:

Teachers can create, update, or remove courses. These courses are stored in the database and linked with students and their grades.



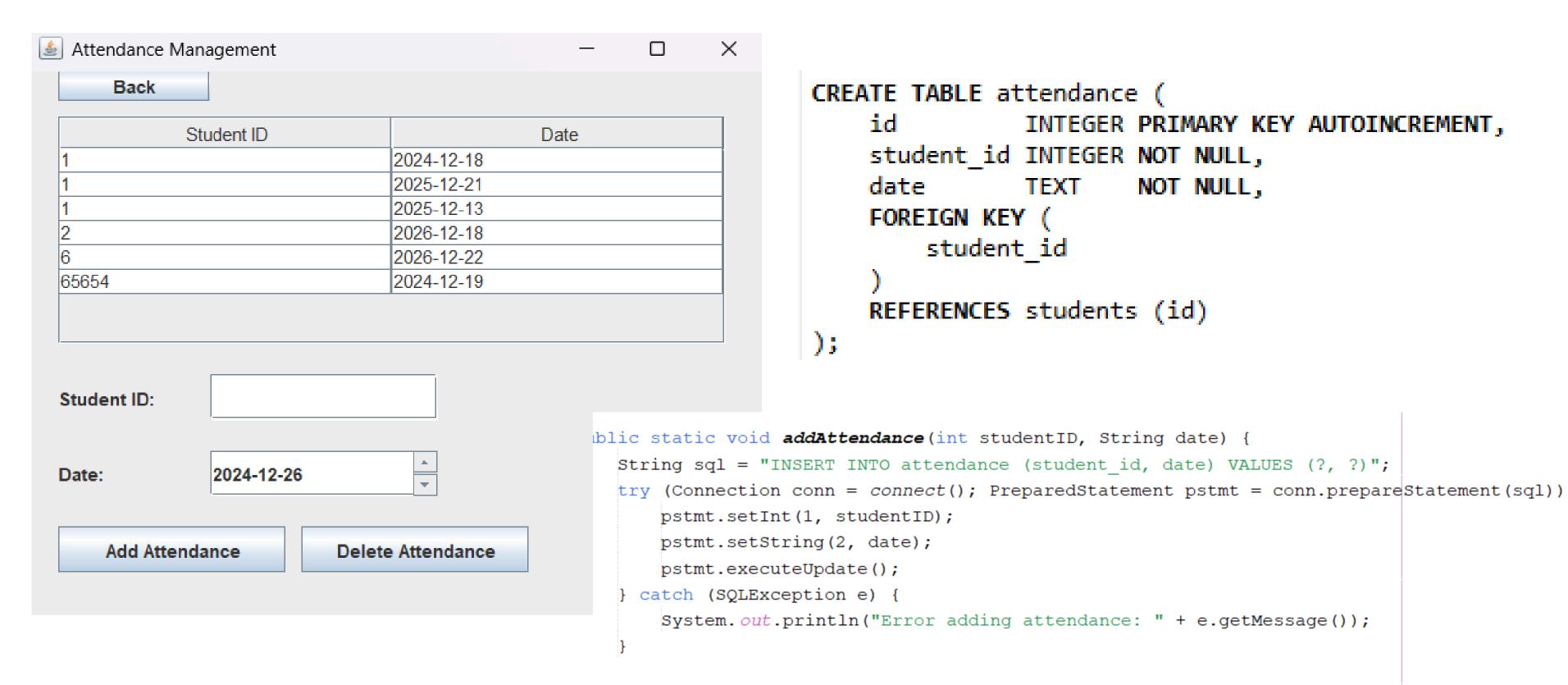
2-)Grade Management:

Teachers can add, update, or delete grades for students in specific courses. This allows for seamless grading and keeps all records up-to-date in the database.



3-)Attendance Management:

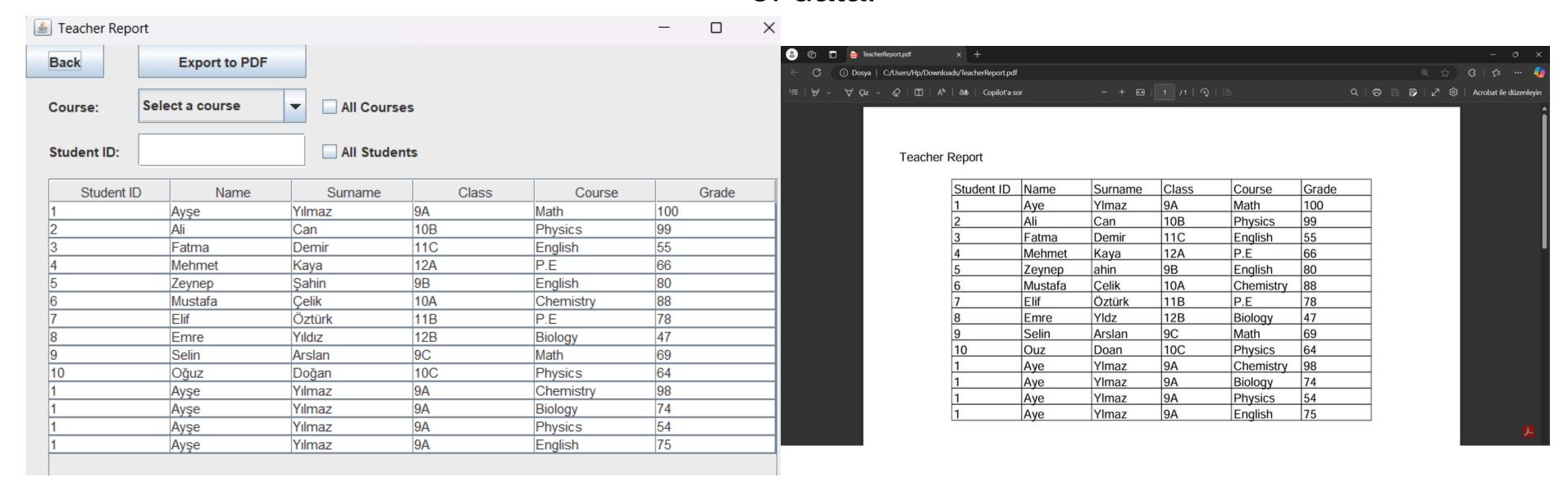
Teachers can record and track student attendance. Attendance data is stored in the database and can be used for analysis or reporting.



4-) Generate Customized Reports:

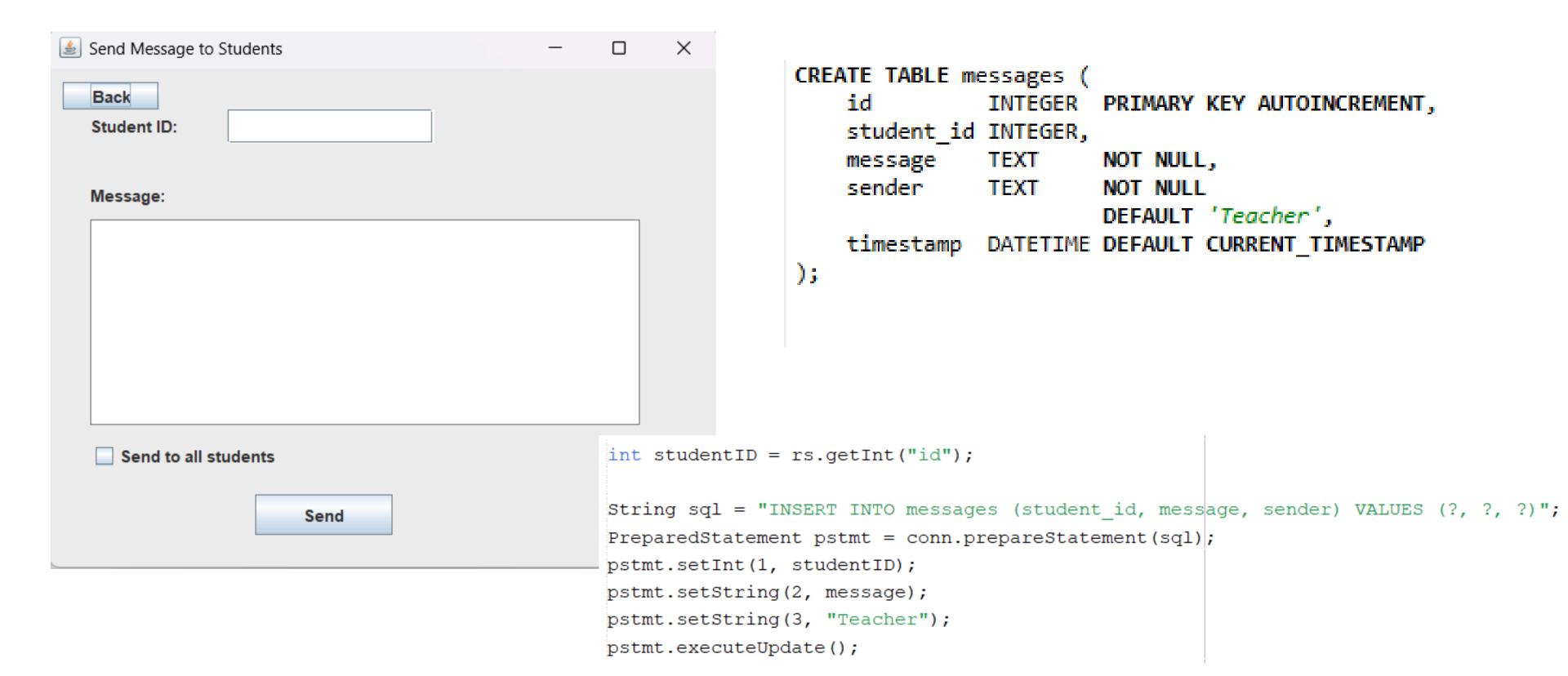
Teachers can generate PDF reports based on specific criteria, such as:

- Grades for a particular student. Grades for a specific course.
- Attendance records for selected students or entire classes. These reports can be exported for record-keeping, printing, or sharing.
- The iText library is used for generating PDF reports, ensuring portability and accessibility of data.



5-) Teacher message screen

The teacher can send a message to any student (by entering their ID). and this message will be displayed on the student's page. He/she can select all students and send the message to everyone.



Student Functionalities

1-)View Grade Reports:

Students can view their grades for all completed courses. These grades are pulled directly from the database for real-time accuracy.

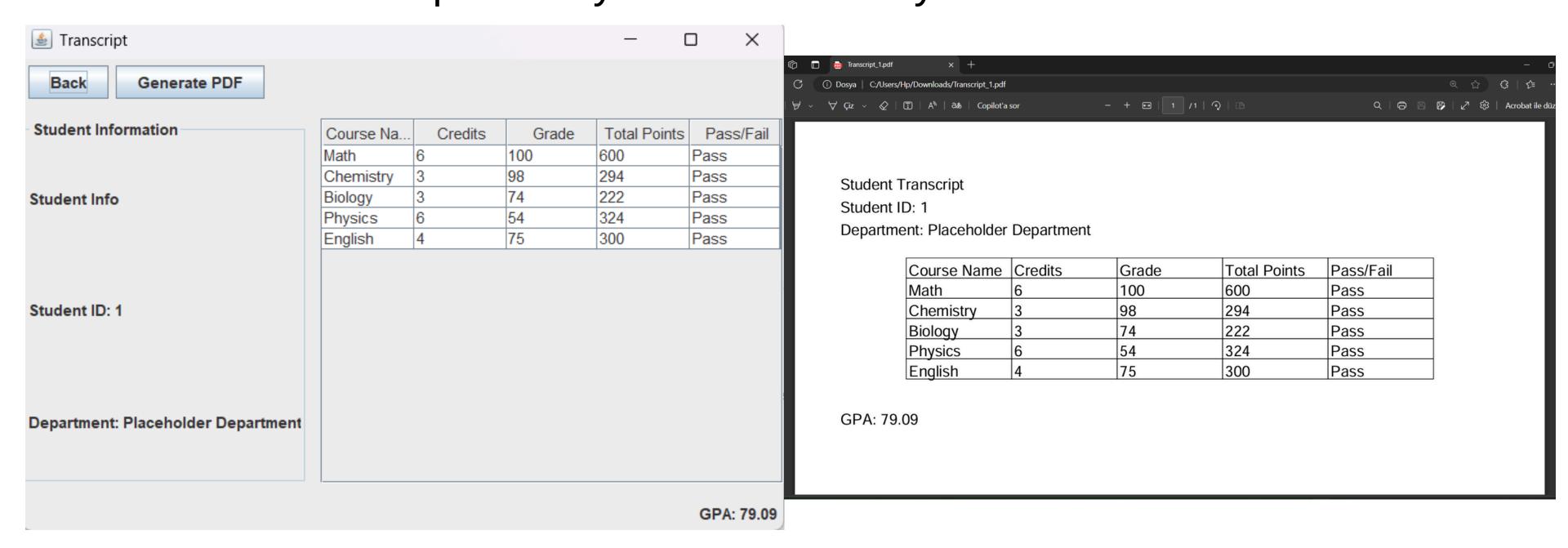
Student Report Scree	n		– 🗆 X
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Course Name	Credits	Grade	Pass/Fail
Math	6	100	Pass
Chemistry	3	98	Pass
Biology	3	74	Pass
Physics	6	54	Pass
English	4	75	Pass

3-)Access Transcripts:

Students can generate their academic transcripts in PDF format.

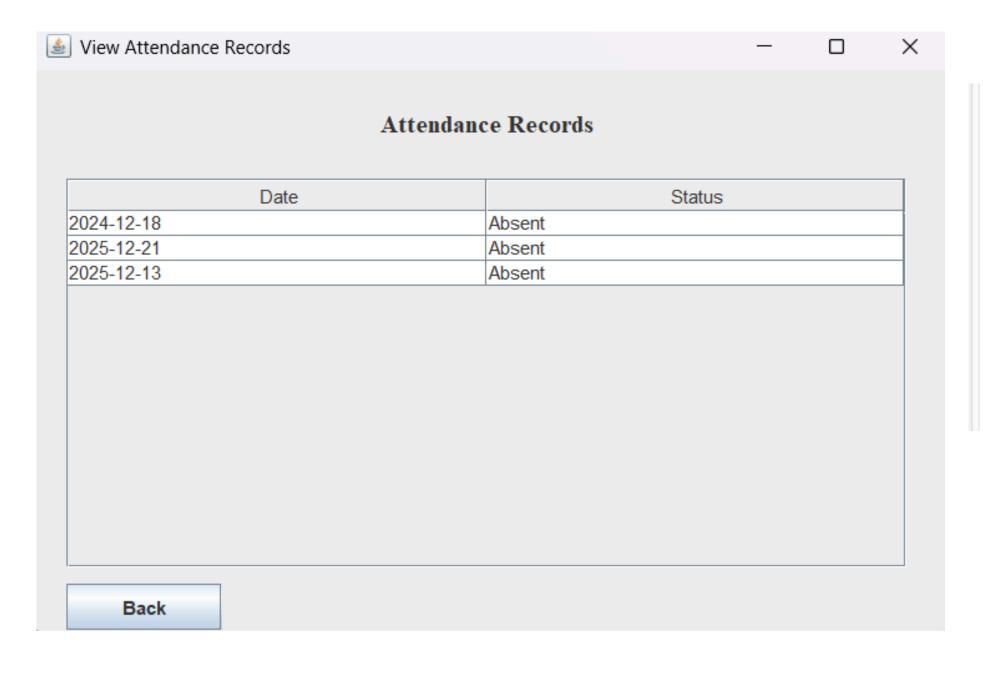
These transcripts summarize their performance across all courses.

The iText library is used for generating PDF reports, ensuring portability and accessibility of data.



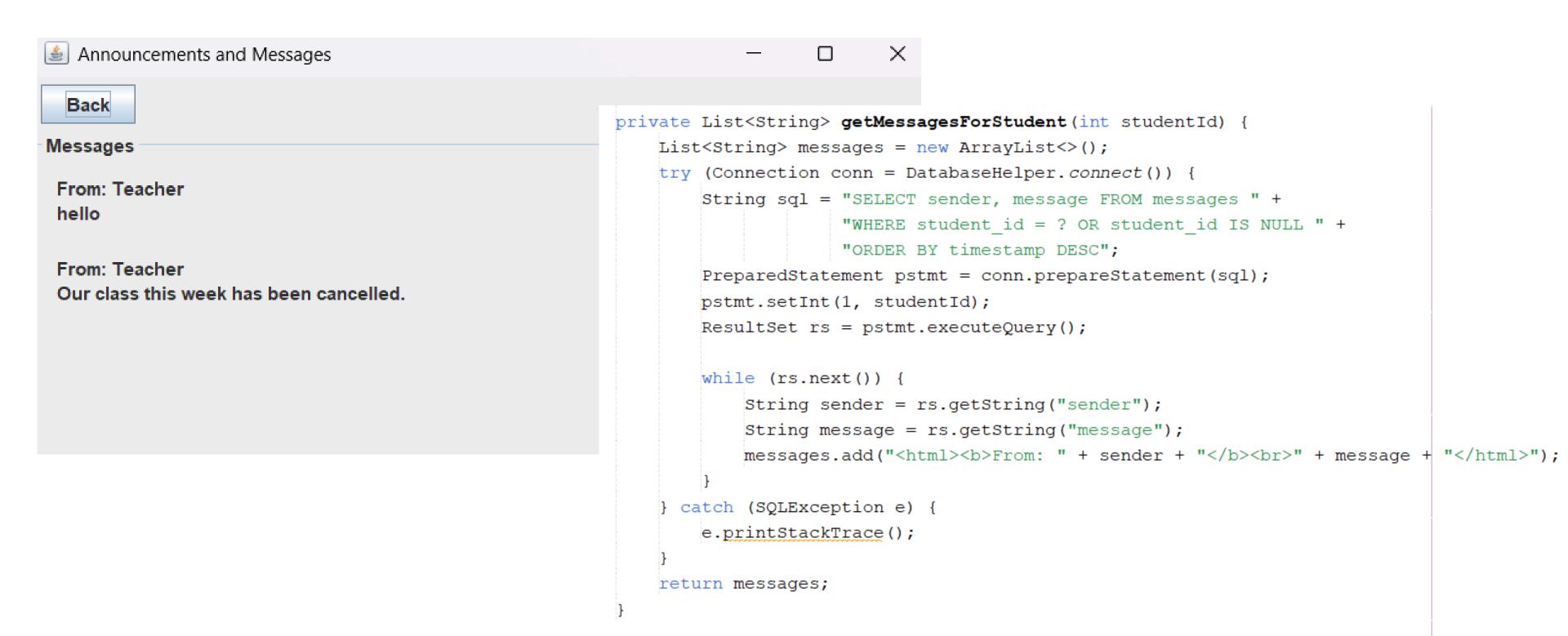
3-)Attendance Tracking:

 Students can view their attendance records to monitor their participation in classes.



4-) Announcements And Messages

In the message and announcements section, our student can view the message sent to him by the teacher. This message is stored in the message section of the database.



Thank You For Listening...:)