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TUTORING SESSION SCHEDULING **PLATFORM**

Storing and Retrieving Data - Final Project Prof. Mijail Naranjo Zolotov | Prof. Nuno Alpalhão | Prof. Yuri Binev



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Description of the Business Process

For the present project, we designed a business process consisting of a system that connects specialized tutors from the company *UpGrade* with students from 5th to 12th grades living in Portugal.

UpGrade is a fictitious company focused on offering premium guided one-on-one tutoring sessions at well-prepared tutoring centres across the country, with experienced and highly qualified tutors. Thus, students are provided with customized tools to help advance their knowledge.

Concretely, the *UpGrade* system for which we developed this database is an online platform where the students can create an account, browse the tutor and course options, and schedule their tutoring session at their preferred time slot. Furthermore, *UpGrade* provides a tutor rating system, allowing students to align their expectations in relation to the tutoring sessions and make more informed decisions.

The *UpGrade* system contains information about students, tutors, tutoring sessions, ratings, tutoring centres, and courses available for each academic year.

The process is organized in a way such that:

- Each of *UpGrade*'s students is characterized by a name, birthday, contact, gender, and current school year.
- Each of *UpGrade*'s tutors is characterized by a name, contact, gender, birthday, and the ID of the tutoring centre where they teach.
- Each tutoring session is characterized by start and end time, status (*scheduled*, *done*, *canceled*), tutor ID, course ID, school year ID, student ID, and final price. When scheduling a session, the student can select the start and end times, the tutor, and the course. When the session is scheduled, the final price is automatically calculated based on its duration and the pay rate of the tutor for that specific course. One session can have only one student and one tutor. Tutors and students can have multiple sessions.
- After each session ends, an invoice is released with the description of the session (the tutor, the course, the tutor's pay rate, and the final price). Additionally, the student will be able to rate the session. Each student can only provide one rating per session.
- The tutoring centres are the places where the classes are given, thus they are characterized by address, contact and municipality.
- As for courses, the system is prepared to differentiate between curricular years. For instance, the mathematics course can be different for 5th grade and 9th grade, although the designation is the same. This can also influence the tutor's pay rate per course.

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