

Design a scheduling application for a driving school.

Students of the driving school need to **appoint** online. More specifically, students need to find a suitable **courses** and have an appointment in the system. Each student can have zero or more reservations because a student can only register in the system and find a **coach** without an appointment. A course can be selected by zero or more students. Besides, each course has a certain coach and one coach can teach for many courses. To maintain the quality of the courses, it is best for a coach not to teach more than 5 courses.

The application also needs to store all information of students, courses and coaches.

Firstly, students should sign with their **first name**, **last name**, **gender**. Moreover, each student could have one **email address**, and must have one **phone number** in the system, or the coaches cannot communicate with their students. Most importantly, the **address** is necessary for students because a coach needs to pick up students at a specific location.

Secondly, the application needs to show coaches' **first name**, **last name**, **phone number** and the **time** they register on a coach. To help students make a better choice, it needs to show the **ratings** of coaches. Besides, **location** is also necessary for a student to find a suitable coach near home.

Thirdly, the information of courses need to be shown. A course will have a **name** (maybe driving lesson: DLXXX). In addition, a **car type** name to help student find the specific type of car they would like to learn. **Start time** and **duration** tells the specific time to start the course and how long it will take. **Capacity** shows the maximum students in a certain course. Great with a short **introduction**. Finally, the **coach of the course**.

Nouns(Classes): students, courses, coach

Nouns(Attributes):

Student: first name, last name, gender, email, phone, address.

Course: name, car type, start time, duration, capacity, introduction, coach

Coach: first name, last name, time to register on a coach, phone, ratings, location

Verbs(Associations): appoints