



COMPULSORY EXERCISE 1

BLOCK 1

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Analyze the following proposal:

We are asked to develop a web page to put an enrolment process online for a company who organized courses of different subjects in different dates, and they need to organize the courses depending on the enrolment process.

They need a web page that must always be accessible. There, people could access at any time to enroll in their courses. The people who will use this web page will be student, the manager of the courses and the teachers. The manager and the teachers will need to login to access to the web page, the students will enter only to the general information part of the web page.

The students will choose one of their courses in their catalogue and they will provide all their personal information. Since we are working with personal information, we will provide the client with all the necessary tools to protect this information following the laws regarding personal data protection. We will need, then, to develop our web in secure mode, using https.

Once the student has filled the form with their personal information, they will access to another form where they will choose the dates to make the course chosen previously. After that, the application will be sent to the manager. Apart from the web page to be used by the students, we are asked to develop another web page to make the enrollment process with all the information received through the students web page.

In the manager view the user will be able to create courses regarding the number of students that requested each course in which date. If some of the courses offered don't have more than 5 applications, the course will be canceled, and the students will receive a message informing of this matter.

Once a course is created, a message will be sent to the students informing them with the details of the course and the list of students will be sent to the teachers.

The teacher will have access to another view of this web page where they will insert the marks of the students of each course. When one course is finished, the students who pass the course will receive a certificate.

In order to avoid losing clients, the process to ask for a course must be easy to understand and easy to use. We need our clients to be comfortable with the design of the web page.

This company offered a great number of courses, online and presential, so we will need to store a great amount of information and we will need to make a backup process every day.

After reading the proposal, the analysis team of our company has decided that the classes we will need to use to develop this project will be:

- **Course**, with this information: subject and date.
- A subtype of course that will be **AssignedCourse** which will have a Teacher and a List of Students assigned.
- **User**, with this information: name and surname.
- 3 subtypes of users:
 - **Teacher**, with the information added: login and password
 - **Student**, with the information added: address, email, DNI, preferences about courses.
 - **Manager**, with the information added: login and password
- **Application** of a student asking for a course.

What do you have to do?

You will have to write a document with **these sections**:

- A cover page with the title "CoursesManagement analysis", group (1st DAW/DAM) and your name.
- A table of contents
- An introduction, explaining the project to be developed.
- The SRS including three subsections (functional requirements, non functional requirements and system requirements) where you must specify the requirements of each type, according to the information that you can extract from the introduction.
- The use cases diagram of the general behavior of the project.
- Two activity diagrams of two use cases of the project.
- Class diagram of the project

Assessment

- SRS: 2 points
- Use cases diagram: 2,5 points
- Activity diagrams: 2 points (1 point each)
- Class diagram: 2,5 points
- Presentation (cover page, cleanliness, clarity, etc.): 1 point