Erasmus in Spain

Internship 2024

ERASMUS
visit Spain

Internship learning period: 2.04.2024-31.05.2024

Internship Details

- Student: Prianka Fatema

- Field: Information Technology

- Location: Barcelona, Spain

- Company: Sigma

- Internship Duration: 8 weeks

- Role: Software Developer Intern

- Working hours: (Mon-Fri) 8.30 am - 2.30 pm (6hrs)

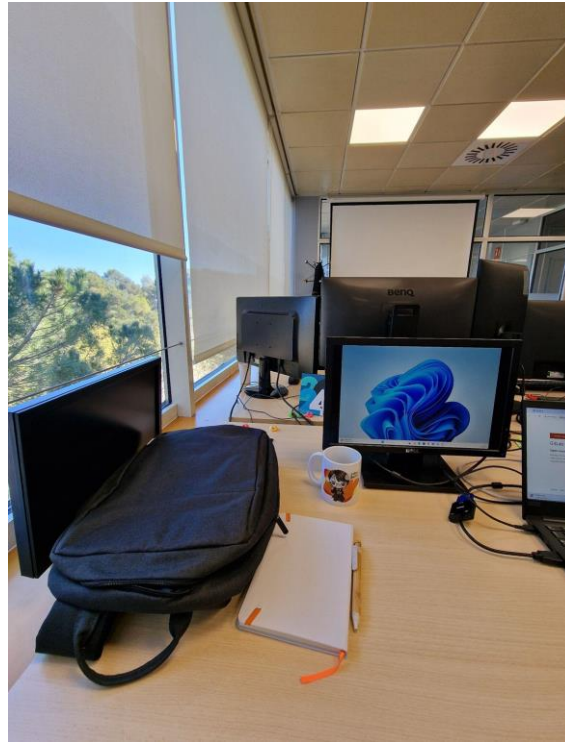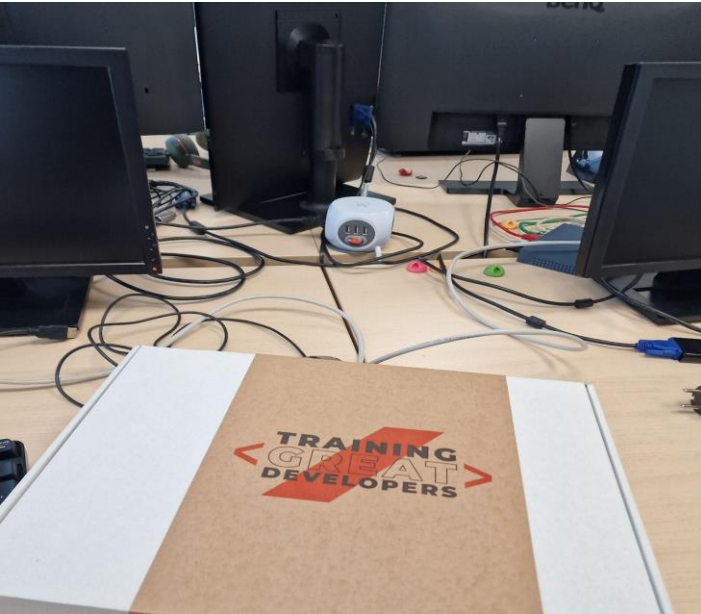Sigma is a non-profit organization and it started 1996.

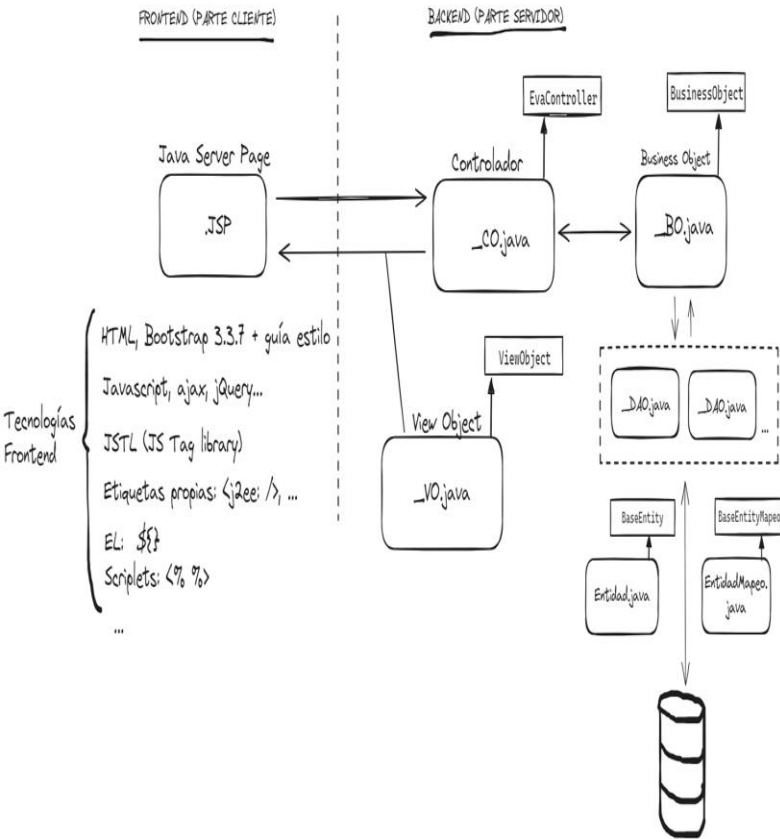They focus on making academic work easier with technology.

They offer help with planning, setting up software,

fixing problems, training, and starting new projects. Sigma has a Learning Center where trainees can learn and do their internships and students learn to do work with teams, decision-making, and creativity. They train in technologies like HTML, Java, SQL, and use tools like NetBeans and Maven. Students also learn company policies and how to work on projects and this prepares students for real-world software development jobs

On my first day at Sigma, I felt excited as I entered the busy office. Everyone was friendly and welcoming. I learned about the teamwork and creativity that make Sigma special. As a software developer intern, I was eager to start working on projects. I spent the day getting to know the tools and how things worked. It was a great start, and I looked forward to learning more and facing new challenges at Sigma.

FRAMEWORK EVA

FRONTEND (PARTE CLIENTE)   BACKEND (PARTE SERVIDOR)

EvaController   BusinessObject

Java Server Page   Controlador   Business Object

.JSP   _CO.java   _BO.java

Tecnologías Frontend:
- HTML, Bootstrap 3.3.7 + guía estilo
- Javascript, ajax, jQuery...
- JSTL (JS Tag library)
- Etiquetas propias: <j2ee: />, ...
- EL: ${}
- Scriptlets: <% %>
- ...

ViewObject

View Object

_VO.java

_DAO.java   _DAO.java   ...

BaseEntity   BaseEntityMapeo

Entidad.java   EntidadMapeo.java

Project Summary:

The project I worked on is about making a web application to help manage academic information, like student records and course details.

Technologies Used:

For building the web application to work for backend, we used Java, which handles data and logic. The code is organized in a structured way, with different types of objects like DAOs (for database interactions), BOs (for business logic), COs (for handling requests), and VOs (for showing information). Additionally, we utilized SQL for database operations, AJAX for asynchronous communication with the server, and JSON for exchanging data between the frontend and backend. JavaScript to create responsive web pages.

LÍMITE NOTA MEDIA RAMA

Grabar Límite Nota Media Rama

Año académico | 2022/23
Código Rama | H - Historia
Nota Media Rama | 6.24

Q Buscar | 🗑 Limpiar | 💾 Grabar

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	2022	B	7.30
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What I Learned:

I learned how to handle different parts of making a web application like talking to a database to get information (DAOs), making sure the website does the right things (BOs), and handling requests from people using the website (COs). I also learned how to show information on the website and let people interact with it (VOs).
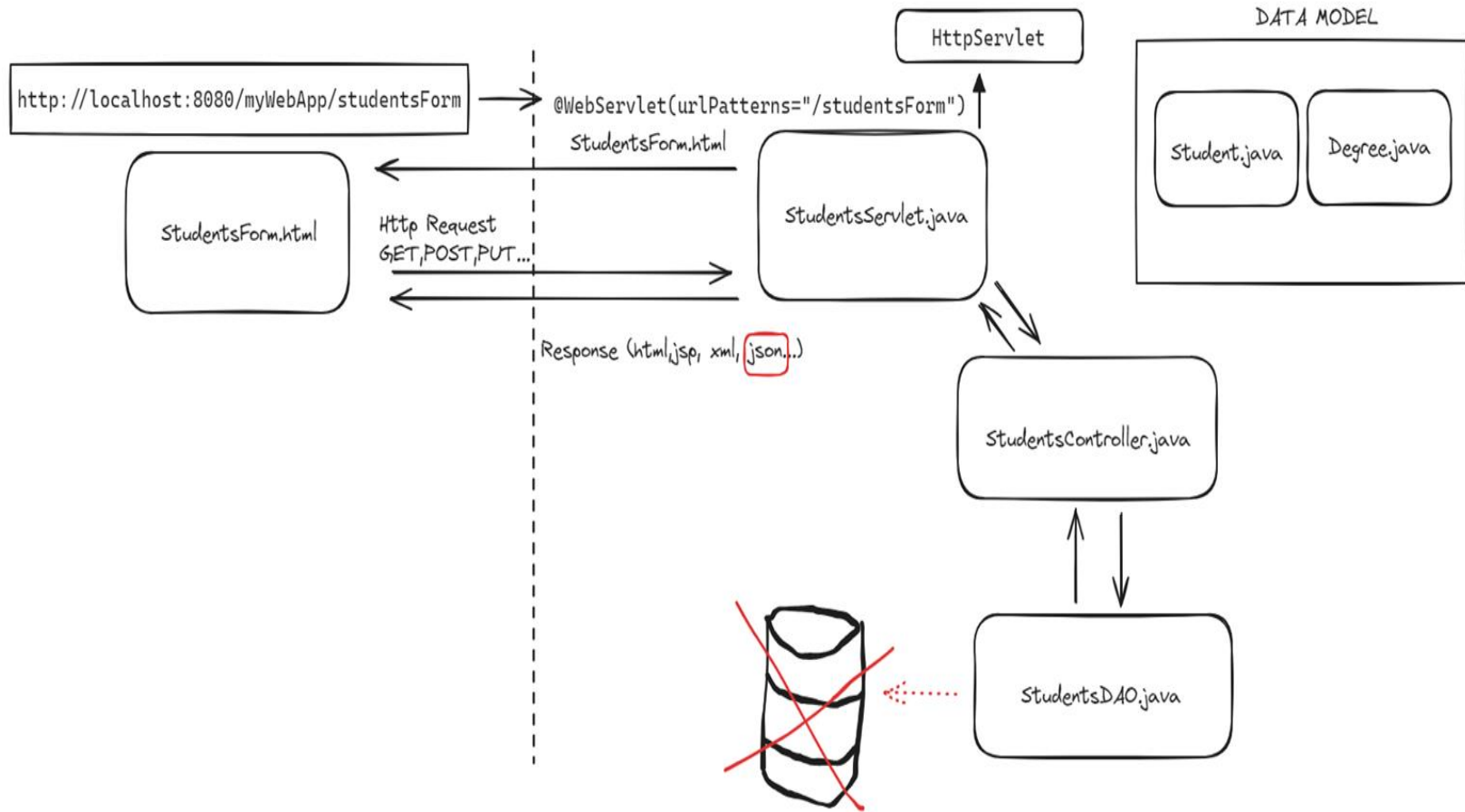
Features:

The website can do things like adding, reading, updating, and deleting academic information. It can show information in different languages, and it has security to keep certain parts safe.

How I Worked:

I wrote code, tested to make sure it works, and it was checked by tutor to make sure the website does what it's supposed to do.

Overall, I learned a lot about building a web application and making it work well to help manage academic data.

```
http://localhost:8080/myWebApp/studentsForm
```

@WebServlet(urlPatterns="/studentsForm")

StudentsForm.html

HttpServlet

DATA MODEL

Student.java   Degree.java

StudentsForm.html

StudentsServlet.java

Http Request
GET, POST, PUT...

Response (html, jsp, xml, json...)

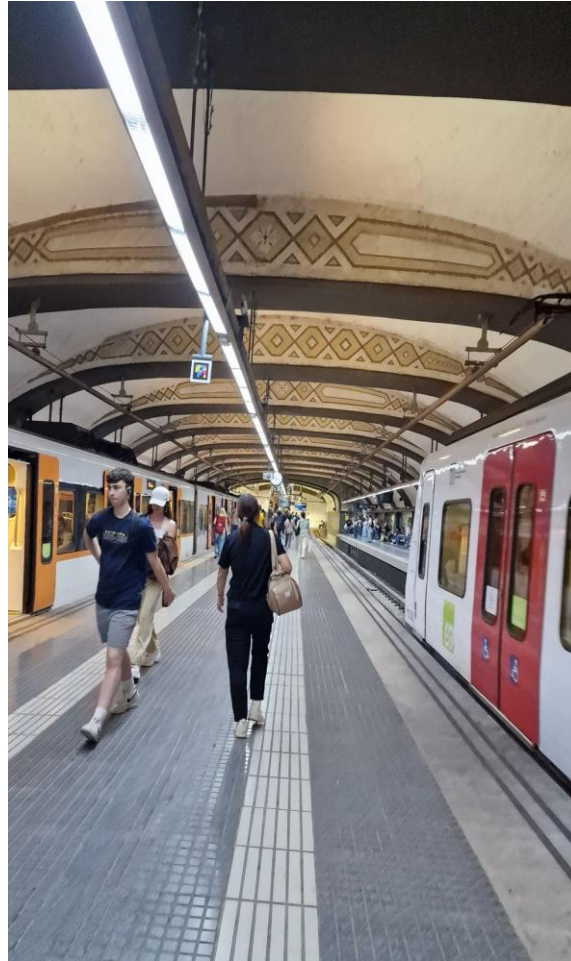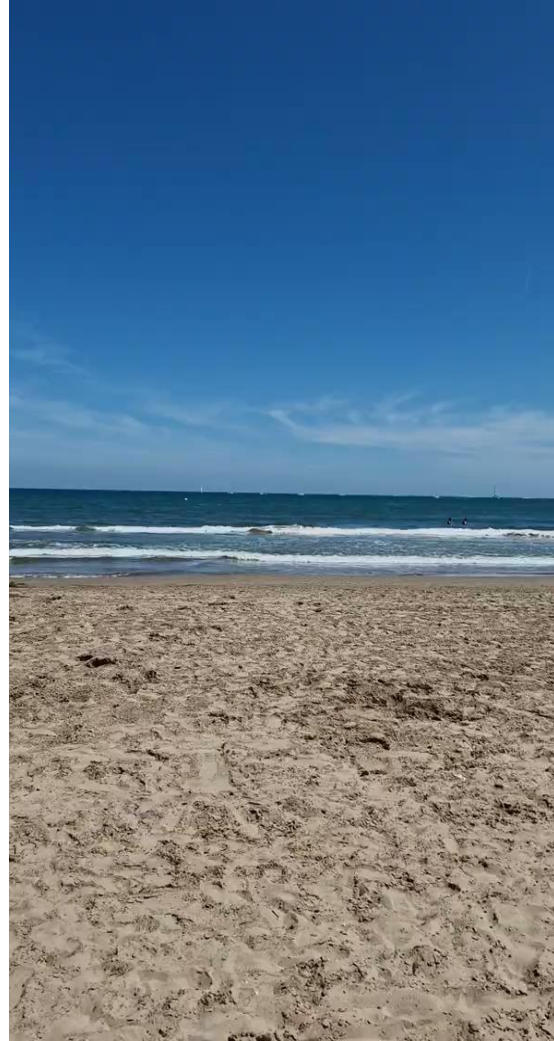StudentsController.java

StudentsDAO.java

Other tasks I completed during my internship included:

- JavaScript exercises to create an employee chart.
- Designing an online shop page where users can add and delete products from their cart and view the total amount.
- Developing a movie search engine page using HTML, Bootstrap, and JavaScript. Additionally, I used data from the "Dummy JSON" API to improve the search engine's functionality. These resources helped me create a user-friendly and visually appealing interface for searching and viewing movie details.
- Working on a student form to display details such as subjects, ID, name, and age. This involved using HTML, JavaScript, Gson, JSON, and Java components like CO, DAO, and Servlet.

These tasks helped me gain valuable experience in web development and reinforced my skills in JavaScript, HTML, Bootstrap, and Java components.

The distance from my apartment to the workplace was almost an hour.

Valencia (day trip)

Spanish Food

The food costs at Spanish restaurants depend on the location. Some places have lower prices, while others are more expensive. However, there is a wide variety of food available, especially seafood and vegetables. In grocery markets, fruits and vegetables are inexpensive, but in restaurants, Spanish food can be a bit pricey. There are many budget-friendly restaurants that offer good quality food also.

In Barcelona, people are generally friendly to everyone. It's a city with a mix of cultures, including Catalan culture. I recommend doing an Erasmus program there or in any other city. It's a unique experience where we can learn about a new culture, meet new people, and gain different kinds of work experience.

Doing an Erasmus internship abroad is not just about learning a new culture. It's also about learning new ways of working. We can learn how people work in different countries and companies. This can help you become more adaptable and better at solving problems.

An Erasmus internship also helps us build connections with people from all over the world. These connections can be useful for our future career. We can share ideas, work with people from different backgrounds, and explore different career paths.

Overall, doing an Erasmus internship abroad is a great opportunity. It helps us grow personally, academically, and professionally. It opens doors to new opportunities and gives us valuable skills and experiences that will help us in the future.

Kiitos

Ulla-Maija Haapakangas

ja

Heli Hämäläinen.