Hello everyone, my name is Do Thi Tuyen. Today I will present my project called Building a system to sell and manage digital cameras. This is the agenda for my presentation.

First will come to the problem overview, …..

Next is the objective of the system….

**Business requirements include:**

* Recommendation system: is a system that recommends products to users based on the feedback or order history.
* AI Chat-bot: Is a chat system that supports users 24/7, helping to respond and answer users' questions.
* Sales functionality: Allows members to buy products in the system and have functions such as add to cart, checkout, and order management.
* Manage functionality: Allows employee and owner to manage system and have function such as managing products, suppliers, categories, etc.
* Order processing: The system must be able to process orders effectively, including order confirmation, delivery, and order status updates to customers.
* Payment features: Need to integrate safe and convenient online payment methods for members, including credit cards, PayPal, or other payment gateways.
* User management: allowing customers to register accounts, log in and manage their personal information.
* Reporting and analytics: Need to be able to create reports on sales such as best-selling products reports, monthly revenue. (ré vờ nêu)
* Information security: Strong security measures (mé dờ) are needed to protect critical business information from external and internal threats.
* Ease of use: The user interface needs to be friendly and easy to use, and training is needed to ensure users can use the system effectively.

**Overall Picture:**

* System proposal: Our project aims to develop a specialized e-commerce platform for digital camera sales and management, integrating key features such as an AI chat-bot and recommendation system. Through this system, we aspire to provide customers with a highly personalized shopping experience, facilitating easy product discovery and purchase.
* System function:

The system encompasses a wide array of functionalities, catering to different user groups including guests, members, store managers, and administrators. Each user group has distinct needs, ranging from basic product browsing to advanced order management and statistical analysis.

* Objective:

Aligned with our business objectives, the implementation of this digital camera sales and management system is designed to enhance customer satisfaction, drive sales, and provide valuable insights for strategic decision-making.

* Technology:

HTML, CSS, JavaScript, Bootstrap, jQuery and Ajax are not considered programming languages but are often considered web development languages and libraries.

HTML (HyperText Markup Language): Is a markup language that is not a programming language but a web page structure and formatting language.

CSS (Cascading Style Sheets): Also not a programming language, but a language used to describe the display of HTML elements on a website.

JavaScript is actually a programming language. Although the word "JavaScript" is in the name, it is not simply a language for the web but is also a general-purpose programming language widely used in many different environments, including web, desktop servers, mobile applications and IoT (Internet of Things).

Bootstrap: Not a programming language, Bootstrap is a CSS framework used to build user interfaces on websites.

jQuery: Also not a programming language, jQuery is a JavaScript library used to interact with the DOM and make interactive operations on web pages easier.

Ajax (Asynchronous JavaScript and XML): Similarly, Ajax is not a programming language but a technique in web programming that allows data exchange with the server asynchronously.

In short, although HTML, CSS, JavaScript, Bootstrap, jQuery, and Ajax are important tools in web development, they do not fall under the category of programming languages.

**Use case**: this is the use case of the system for all actors. First, the guest has functions including ……, with the actor owner being able to use all employee functions and add reporting/statistical functions.

**Project evaluation:**

* Security is a notable strength of the system: when a user registers or forgets a password, the system will send an otp code to the email the user registered with.
* The system assists users in managing their order status: when the user orders successfully, the system will send an e-mail to the user to let the user know the order has been placed successfully.
* Performance and processing speed: the system has to process too much, so the system's processing speed is not rated high.

**Personal evaluation:**

* **Skills Development:**

I have used ASP.NET MVC, SQL Server, and front-end development technologies such as HTML, CSS, and JavaScript for my previous projects but with this project I had a lot of trouble using Stripe payment. and SMTP services because I have never used it on previous projects. But I realized it was also very important for the success of the project, so I started learning it. The Camera Store project not only deepened my proficiency with ASP.NET MVC, SQL Server, and front-end development but also expanded my skill set with the integration of SMTP and Stripe payment services. I learned how to use and apply SMTP and Stripe payment service to the project

* **Project Management:**

I had a lot of trouble in task prioritization and workflow management, I'm not good at it. However, I overcame these challenges by reflecting on past experiences and implementing a structured approach. By focusing on core e-commerce functionalities first, I built a strong foundation and enhanced clarity and efficiency in feature development.

* **Lessons Learned and Professional Growth:**

Through the Camera Store project, I learned how to use Stripe payment and SMTP services and improved my knowledge of ASP.NET MVC, SQL Server, and front-end technologies. In addition, I also improved my Project Management skills. Embracing continuous learning, I'm poised to contribute significantly to future projects, advancing as both a software developer and project manager.

**Conclusion**

* What went well?

During the Camera Store project, several aspects performed exceptionally well, contributing to its overall success. Below are a few examples to prove that. The suggestion system suggested correctly, AI chat-bot can interact with users, Payment integration ensures smooth and secure transactions and Successful integration sends e-mail to users.

* What did not go well?

While the project succeeded but handling large volumes of information simultaneously may impact system performance and processing speed, necessitating further optimization. Additionally, I encountered challenges in dividing work and prioritizing tasks, resulting in initial inefficiencies during project initiation.

* What have I learned from this project?

The Camera Store project deepened my technical expertise and project management skills, including mastery of ASP.NET MVC, SQL Server, and front-end technologies. It also highlights the importance of continuous professional development and collaborative knowledge-sharing to foster growth and innovation in software development.

* Future development

In the future, we aim to further develop and enhance the Recommendation System, AI chat-bot capabilities, and mobile application development to elevate the professionalism and user experience of our system. This will involve integrating advanced AI technologies, enhancing natural language processing capabilities, and optimizing user interfaces for seamless interaction across platforms.