Snip Itz

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System Design
System architectural design

Data Design

We used MySQL relational database. We used MySQL Workbench as the GUI and MySQL command-line client. The database stores a small amount of data, mainly related to assigning appointments to a schedule. The database has been normalized to 3N, an online entity removing any dependencies and drawn out using ER Assist software.

Below is the Normalization → 3N

EMPLOYEE

empNo_Key	empFirstName	empLastName	empPhone	empEmail	empDeptName	*empPayroll_ID*	empAddress

EMPLOYEE_PAYROLL

empPayroll_ID	ssn

APPOINTMENT

appt_Key	appt_Date	appt_Dept	appt_Time

CUSTOMER

cust_Key	cust_Usn	cust_Pwd	cust_FirstName	cust_LastName	cust_Phone	cust_Email

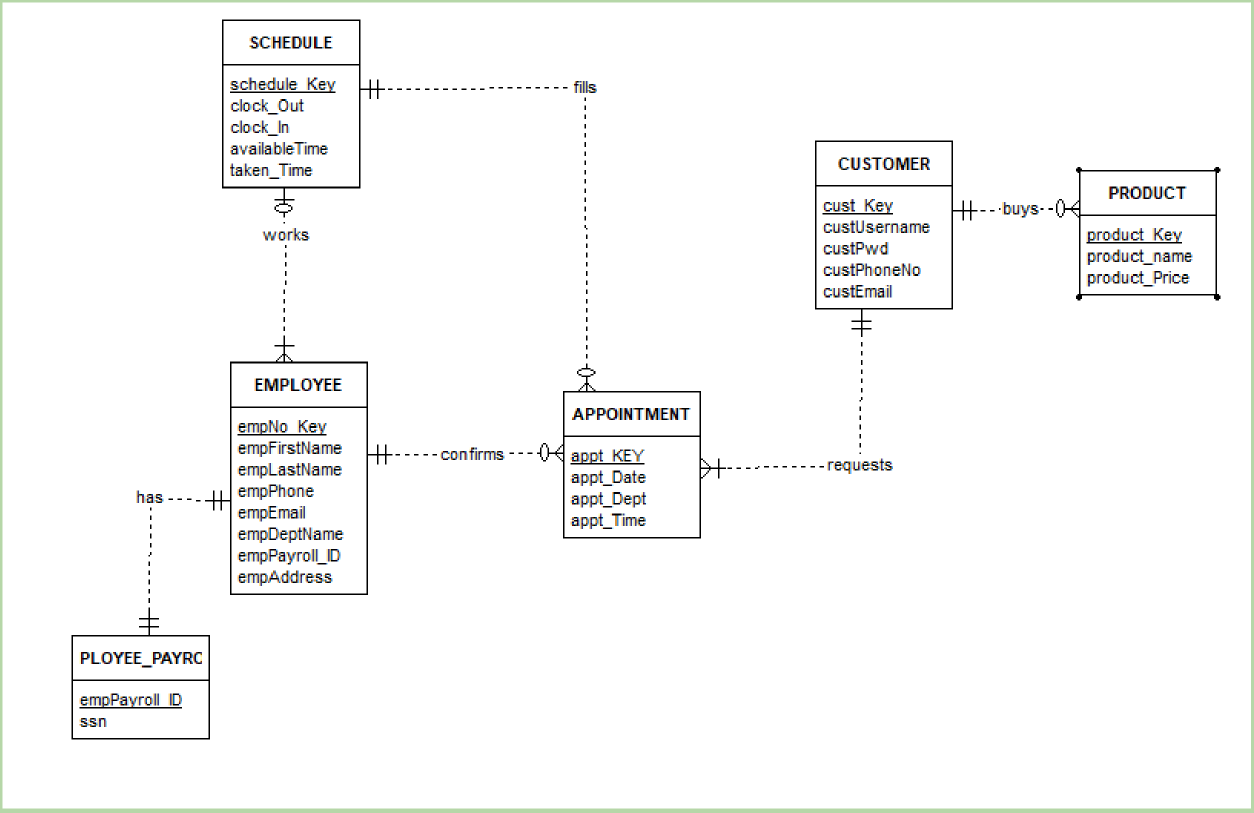
SCHEDULE

schedule_Key	clock_In	clock_Out	available_Time	taken_Time

PRODUCT

product_Key	product_Name	product_Price

Below is the Entity Relationship Diagram (ERD → UML Equivalent)



Process/Behavioral Design

Unit design decisions, if any, such as algorithms to be used, if not previously selected If the software unit consists of or contains procedural commands (such as menu selections in a database management system (DBMS) for defining forms and reports, onlineEntity-Relationship DBMS queries for database access and manipulation, input to a graphical user interface (GUI) builder for automated code generation, commands to the operating system, or shell scripts), a list of the procedural commands and reference to user manuals or other documents that explain them.

Using PHP to store variables with user input and SQL scripts to store the data into the database.

Functional Design

When a user wants to schedule an appointment, they would -

1. Click on the type of appointment they would like to have.
2. They will see a new section to choose the stylist they want and is available for that service.
3. Next, a new section for choosing the date and time for the appointment is created.
4. The user will be taken to a page telling them either that the appointment was created and confirmed or it was denied and to send another request at different times.

When a user wants to see who is on staff/past work -

1. Click on the bio section, which takes to a different page that shows all the stylists with a picture and short biography.
2. Click on the work examples tab bringing them to a page with many pictures of previous work done by different stylists.

When a user needs to ask a question -

1. Go to the bottom of the page to box and add email addresses to the line.
2. The user will type a message in the box sent to either the head stylist's account or their email address.

When a stylist needs to login/ see their schedule -

1. They will enter a username and password.
2. This will bring them to a page to view their schedule.
3. From here, a stylist can add an appointment themselves or delete an appointment.
4. They will see the updated version after the adjustment is made.

When a stylist wants to set/change the hours they are available -

1. The user would click on a set schedule, taking them to the page to change their schedule.
2. The user can set specific times for an appointment and then submit the changed hours.
3. They will see the new availability when they go back to their schedule.

When the head stylist wants to view all schedules

1. They would go to their schedule screen.
2. Select who they want to view and cycle between all the employees.

Screen Prototype

External Interface Design

Functional specifications include external interface requirements. They're crucial in embedded systems. They also describe how the product can interact with other elements. There are many types of interfaces you may need, including communication between users, hardware, and software. For our scenario, External interfaces interact with external users, such as clients, suppliers, etc. As shown in the diagram, what would be shown in the menu of all the necessary and available Services. You can also see that we have a place where they can book the services they want.

External Interface Formats

The service menu showed that all the available services were organized, and the booking showed the primary services. You get to choose the time and the stylist you choose for that availability.

Internal Screens

Internal users are members of a company's management team and other employees who use financial data to administer and operate the company. They are employees of the corporation who make business decisions. In our scenario, internal users are the one that interacts with the employees, management, etc. For example, when a client or a customer book a service, it will confirm the employee/stylist. This client has booked this time and this date for this specific service.

Dialogues

Dialogues are usually pop-ups or Independence sub Windows to provide notices outside the central review. When a client books a service, a pop-up window will appear that a confirmation has been sent. After the client gets the confirmation, it will send an email. It will also send a stylist a confirmation on their email that someone has booked a service.