

Project Overview

I created this project focused on nail salons as my mini-world environment. The main objective was to design and implement a comprehensive database system that would function as a practical and efficient tool for managing information. This database needed to handle both data input and storage effectively, making it a resource for tracking all aspects of operations within this fictional nail salon. I wanted to ensure the system would be both practical and comprehensive.

My Design Approach

Based on my research and experience with nail salons and products, I included seven main parts in my database:

- Customer Information: Keeps track of what customers like and their visit history
- Service Management: List of all services offered and their details
- Employee Records: System to manage staff information
- Appointment System: Easy way to book and schedule appointments
- Inventory Control: Keeps track of products and supplies
- Financial Records: Tracks all payments and transactions
- Supplier Management: Organizes information about vendors and orders

I also added a membership system because many nail salons use them nowadays. This helps us understand what customers like and how often they visit, which allows us to serve them better while keeping track of our inventory and money.

Technical Details

When building this database, I made sure to include important features to make it work well:

I connected different parts of the database so information flows smoothly between them - like linking customer profiles to their membership details. I carefully chose what information to include in each section to make sure everything is accurate and nothing is repeated unnecessarily.

Development Challenges

While creating this database, I faced some challenges. The biggest one was moving the database from Access to MySQL on my Mac computer, which ended up in me using a Windows device. I also had to manage my time well since I was working on other school assignments and preparing for exams. To keep the database simple and useful, I focused on including only the most important features for running the business, leaving out other things, an example would be marketing data.