**FINAL PROJECT PROPOSAL**

**1-person Web API Spring Boot Project:**

**Project Participant:** Ankita Aggarwal

**Title:** Nail Art Studio

**Executive Summary:**

This application will store information for Nail Art Studios, Employees working with studios and Customers. It will be able to add/ delete/ and edit information for Studios, Employees, and Customers.

**Project Requirements:**

**•  Database design which contains at least 3 entities and 3 tables**

- Nailart\_studio  
- Employee  
- Customer

**•  Contains all CRUD operations (Create, Read, Update & Delete)**

**• Each entity should have at least one CRUD operation**  
- Nailart\_studio - Create, Read, Update, Delete   
- Employee - Create, Read  
- Customer - Create, Read

• **One or more entities need to have all 4 CRUD operations (Create, Read, Update & Delete).**

- Nailart\_studio - Create, Read, Update, Delete

**• Contains at least 1 one-to-many relationship**

nailart\_studio and employees - Read

•  **Contains at least 1 many-to-many relationship with one or more CRUD operations on this relationship**

nailart\_studio\_customer - Create, Read

•  **REST Web API UI Used to test all CRUD operations**

Advanced Rest Client (ARC)

**Database Entity Relationship Diagram (ERD):**

**Entity Details**

● Nailart studio: Has a unique Nailart studio’s ID, studio name, address, city, state, zip and phone number.

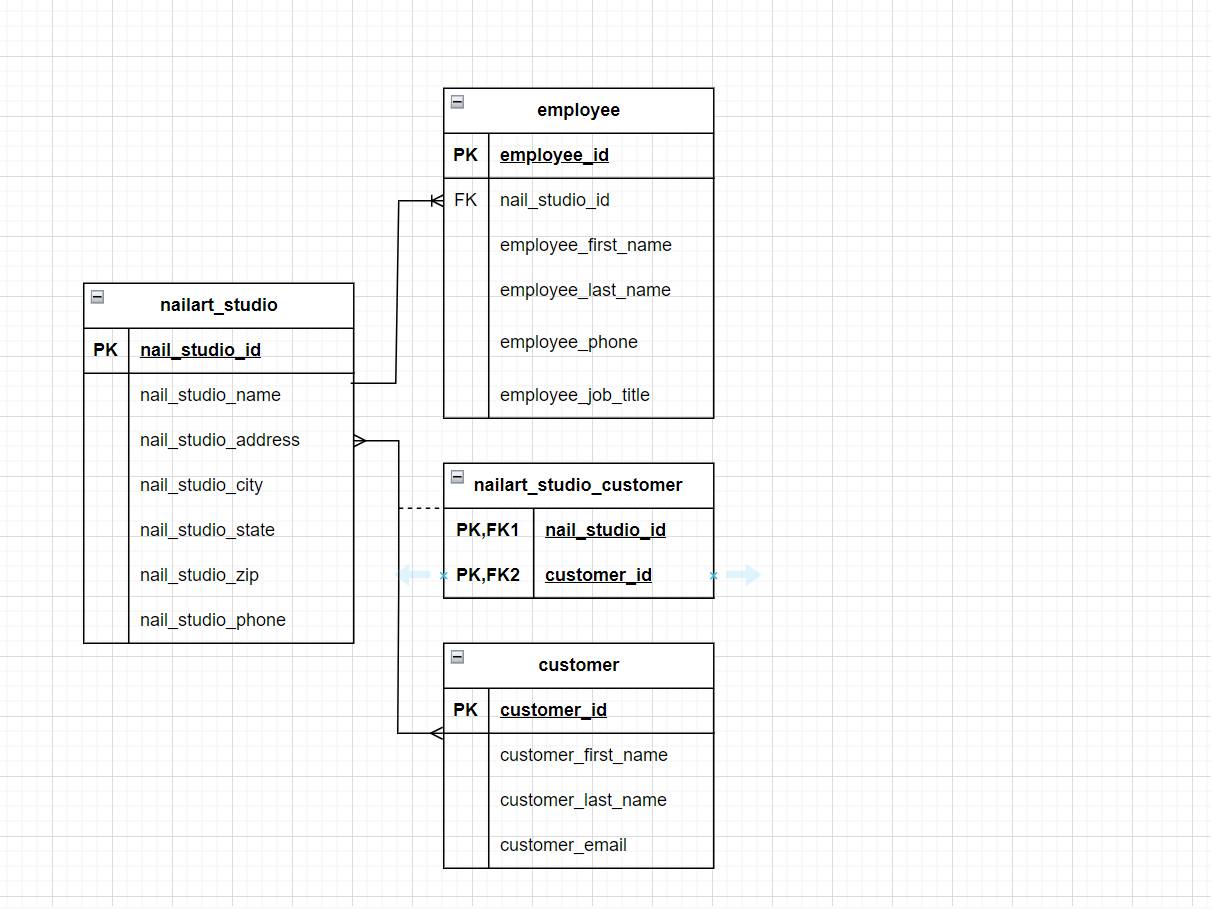
● Employee: Has a unique employee ID, first name, last name, phone number and job title.

● Customer: Has unique customer ID, first name, last name and email address.

**Relationship Information**

● **nailart\_studio** and **employee** tables have a one to many relationship since a nailart studio can have many employees. The nailart studio is referenced in the employee table by using the **nail\_studio\_id** as a foreign key.

● A nailart studio can have many customers, and a customer can take services from several nailart studio, hence, the **nailart\_studio** and **customer** tables have a many to many relationship and are referenced using the **nailart\_studio\_customer** join table.



**Features:**

* Create new NailArtStudio (POST on Nail Art Studio)
* Browse all NailArtStudios (GET on Studios) – without listing all customers and employees.
* Browse specific NailArtStudios (GET on Studio specified) – with listing all customers and employees.
* Add new Employee to a NailArtStudio (POST on Employee with NailArtStudio specified)
* Add new Customer to a NailArtStudio (POST on Customer with NailArtStudio specified)
* GET all Customers
* GET all Employees
* Browse all customers by NailArtStudio (GET on Customers with NailArtStudio specified)
* Browse Employee by NailArtStudio (GET on Employees with NailArtStudio specified)
* Delete NailArtStudio (DELETE) – deletes all associated employees, without deleting all customers
* Update NailArtStudio (PUT on a specific MassageStudio)