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**CS648\_00**

**Capstone Proposal**

**Web Site Concept :**

I am planning to create a Nails & Spa Website. The name of the website will be Tip & Toe Nails & Spa. The Spa provides all services related to nail care like Nail Art, Nail enhancement, Manicure and pedicure. The Website will allow user to check all the services offered by Spa, the cost for each service , contact them and take appointment. Customers can also select or request for the specific employee they want service from. The Web Site will have following screens:

* Home screen displaying about the spa, its history and contact and location information
* Services screen to display all the services offered with the service duration and service cost.
* Promotion screen to display all the discount offers going on.
* Appointment screen to book appointments, with which employee and for what service the appointment has been booked with date and time of the appointment .

**Database**:

To store the employee details ,customer details, appointments, services booked we will use MYSQL database. There will be three Primary Tables, two support tables and two linking tables.

**Primary** **Tables**:

1. Appointments ( The PK will be appointment\_id, appointment\_date\_time will be the date and time for which appointment is booked, customer\_id will be FK which will identify the customer who booked the appointment , employee\_id will be FK as well which will identify the employee the customer requested the service with or the employee assigned for the task, service\_id will be FK as well which will identify which service is booked, discount\_id will be FK to identify if any discount is applicable, customer\_name, customer\_contact, service\_cost)
2. Employees ( The PK will be employee\_id, first\_name\_employee, last\_name\_employee )
3. Customers ( The PK will be customer\_id, first\_name\_customer, last\_name\_customer, customer\_mobile, customer\_email, customer\_password)

**Support Table:**

1. Services ( The PK will be service\_id, service\_name, service\_duration, service\_cost)
2. Discounts ( The PK will be discount\_id, discount\_percent, discount\_code)

**Linking Tables:**

1. employees\_has\_appointments ( employees\_employee\_id, appointments\_appointment\_id, appointments\_employees\_employee\_id)
2. customers\_has\_appointments ( customers\_customer\_id, appointments\_appointment\_id, appointmenst\_customers\_customer\_id)

**Security issues:**

**I have kept the customer\_contact, customer\_email & customer\_password fields nullable. So if customer choose to not provide details there is an alternative option to call the Spa and book appointment. Its not mandatory to signup or provide contact Information.**

**Ideas**/**Concerns**:

I would like to make it a complete salon website with product and other services instead of just nail spa but that would require more tables which will be difficult to manage. For version 2, I would like to add Employee rating and Customers membership status. In future if the spa open chains then database might need some additional tables like branch, branch address and appointment table might need some additional elements.