



Εθνικό Μετσόβιο Πολυτεχνείο

Σχολή: Ηλεκτρολόγων Μηχανικών & Μηχανικών Υπολογιστών

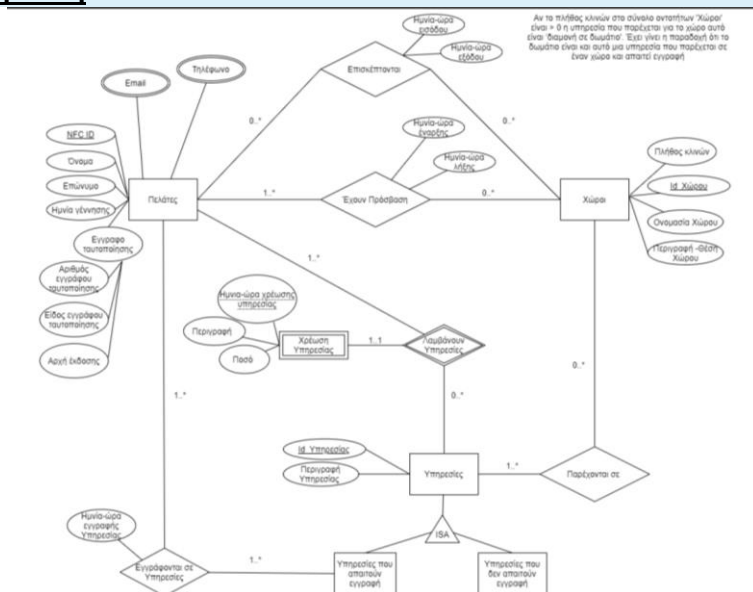
Ροή Α: Βάσεις Δεδομένων (6^ο Εξάμηνο)

Project-2021

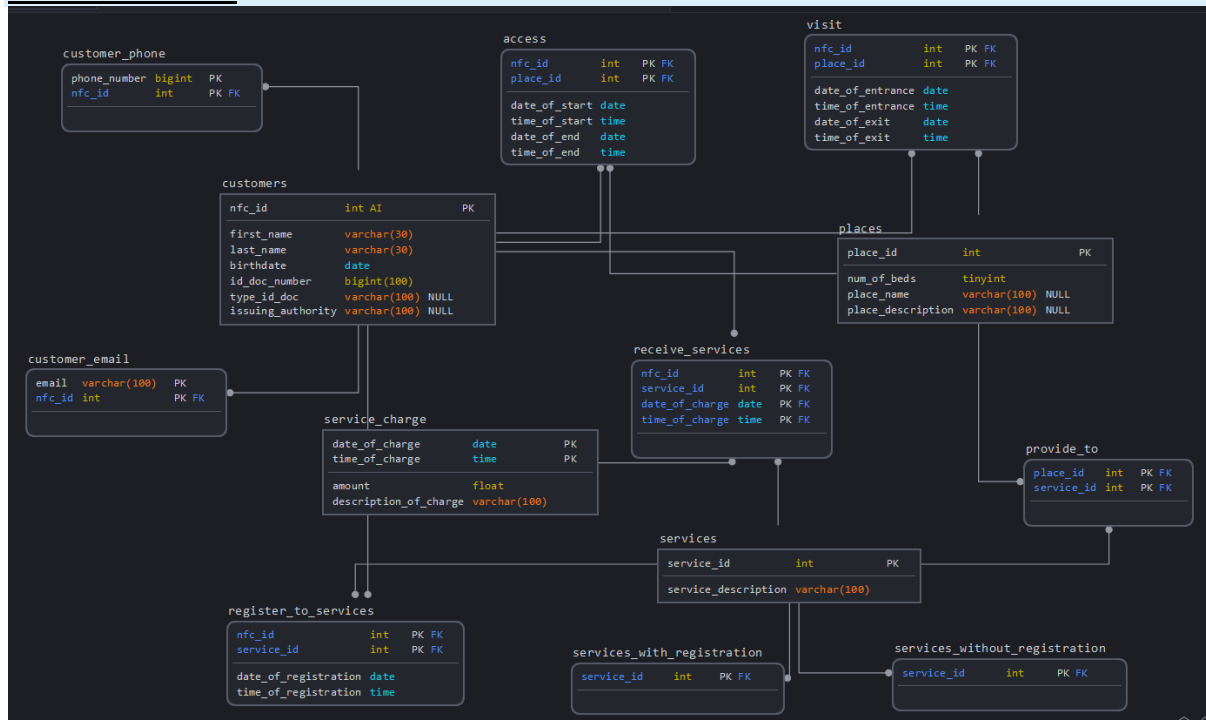
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ASDF PALACE

ER Model – Απλή λύση



Relational Model



Database Structure with Constrains

```
CREATE TABLE customers
(
    nfc_id int not null auto_increment,
    first_name varchar(30) not null,
    last_name varchar(30) not null,
    birthdate date not null,
    id_doc_number bigint(100) not null,
    type_id_doc varchar(100),
    issuing_authority varchar(100),

    constraint primary key(nfc_id)
);

CREATE TABLE places
(
    num_of_beds tinyint not null,
    place_id int not null,
    place_name varchar(100),
    place_description varchar(100),

    constraint primary key (place_id)
);

CREATE TABLE visit
(
    nfc_id int not null,
    place_id int not null,
    date_of_entrance date not null,
    time_of_entrance time not null,
    date_of_exit date not null,
    time_of_exit time not null,

    constraint primary key (nfc_id,place_id),
    constraint foreign key (nfc_id) references customers(nfc_id) on update cascade
    on delete cascade,
    constraint foreign key (place_id) references places(place_id) on update cascade
    on delete cascade
);

CREATE TABLE access
(
    nfc_id int not null,
    place_id int not null,
    date_of_start date not null,
    time_of_start time not null,
    date_of_end date not null,
```

```

time_of_end time not null,

constraint primary key (nfc_id,place_id),
constraint foreign key (nfc_id) references customers(nfc_id) on update cascade
on delete cascade,
constraint foreign key (place_id) references places(place_id) on update cascade
on delete cascade
);

CREATE TABLE services
(
    service_id int not null,
    service_description varchar(100) not null,

    constraint primary key (service_id)
);

CREATE TABLE service_charge
(
    date_of_charge date not null,
    time_of_charge time not null,
    amount float not null,
    description_of_charge varchar(100) not null,

    constraint primary key (date_of_charge,time_of_charge)
);

CREATE TABLE receive_services
(
    nfc_id int not null,
    service_id int not null,
    date_of_charge date not null,
    time_of_charge time not null,

    constraint primary key (nfc_id,date_of_charge,time_of_charge,service_id),
    constraint foreign key (nfc_id) references customers(nfc_id) on update cascade
on delete cascade,
    constraint foreign key (date_of_charge,time_of_charge) references service_charge(date_of_charge,time_of_charge) on update cascade on delete cascade,
    constraint foreign key (service_id) references services(service_id) on update
cascade on delete cascade
);

CREATE TABLE provide_to
(
    place_id int not null,
    service_id int not null,

```

```

        constraint primary key (service_id,place_id),
        constraint foreign key (service_id) references services(service_id) on update cascade on delete cascade,
        constraint foreign key (place_id) references places(place_id) on update cascade on delete cascade
    );

CREATE TABLE services_with_registration
(
    service_id int not null,

    constraint primary key (service_id),
    constraint foreign key (service_id) references services(service_id) on update cascade on delete cascade
);

CREATE TABLE services_without_registration
(
    service_id int not null,

    constraint primary key (service_id),
    constraint foreign key (service_id) references services(service_id) on update cascade on delete cascade
);

CREATE TABLE register_to_services
(
    nfc_id int not null,
    service_id int not null,
    date_of_registration date not null,
    time_of_registration time not null,

    constraint primary key(nfc_id,service_id),
    constraint foreign key (service_id) references services(service_id) on update cascade on delete cascade,
    constraint foreign key (nfc_id) references customers(nfc_id) on update cascade on delete cascade
);

CREATE TABLE customer_phone
(
    phone_number bigint not null,
    nfc_id int not null,
    constraint primary key (nfc_id, phone_number),
    constraint foreign key (nfc_id) references customers(nfc_id) on update cascade on delete cascade

```

```
);

CREATE TABLE customer_email
(
    email varchar(100) not null,
    nfc_id int not null,
    constraint primary key (nfc_id, email),
    constraint foreign key (nfc_id) references customers(nfc_id) on update cascade on delete cascade
);
```

***Αιτιολόγηση των περιορισμών στο βίντεο**

Σύστημα και γλώσσες προγραμματισμού που χρησιμοποιήθηκαν

Server:

- Xampp
- Apache
- MySQL

Data_generation:

- Python (απευθείας σύνδεση με τη βάση)
- Excel (για csv αρχεία)

Εργαλεία:

- phpMyAdmin
- sqldbman

Βήματα εγκατάστασης

1. Στήσιμο του σέρβερ xampp
2. Είσοδος στο phpMyAdmin
3. Εκτέλεση του κώδικα SQL
4. Εισαγωγή δεδομένων από τα αρχεία csv
5. Εκτέλεση του κώδικα python για συμπλήρωση όλων των δεδομένων
6. Άνοιγμα των αρχείων php στο browser
7. Τέλος!

Όλος ο κώδικας SQL που χρησιμοποιήθηκε

Έχει παρουσιαστεί παραπάνω η δομή της βάσης μας που αποτελεί το μεγαλύτερο μέρος του κώδικα SQL. Παρακάτω παρουσιάζονται τα indexes και views που έχουμε ορίσει:

Indexes:

```
CREATE INDEX visit_place
ON visit (place_id);

CREATE INDEX what_service
ON services (service_description);
```

```
CREATE INDEX time_received
ON receive_services (date_of_charge,time_of_charge);
```

Views:

```
CREATE VIEW customer_info AS
SELECT
    DISTINCT c.first_name,
    c.last_name,
    c.birthdate,
    c.nfc_id,
    c.id_doc_number,
    c.type_id_doc,
    c.issuing_authority,
    p.phone_number,
    e.email
FROM
    customers c
    LEFT JOIN customer_phone p on c.nfc_id = p.nfc_id
    LEFT JOIN customer_email e on p.nfc_id = e.nfc_id
```

```
CREATE VIEW sales_info AS
SELECT
    DISTINCT SUM(s.amount),
    s.description_of_charge
FROM
    service_charge as s
GROUP BY
    2
ORDER BY
    1 DESC
```

Υπόλοιπα αρχεία

Εδώ παρουσιάζονται τα: app.js, Main.php, More_info.php, Sales.php, Services.php, Statistics.php, styles.css

Main.php

```
<?php
    include_once 'includes/dbh.inc.php';
?>

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Hotel Covid</title>
        <!-- font-awesome -->
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.14.0/css/all.min.css"
        />

        <!-- styles -->
        <link rel="stylesheet" href="styles.css" />
    </head>
    <body>
        <button class="sidebar-toggle">
            <i class="fas fa-bars"></i>
        </button>
        <aside class="sidebar">
            <div class="sidebar-header">
                <button class="close-btn"><i class="fas fa-times"></i></button>
            </div>
            <!-- links -->
            <ul class="links">
                <li>
                    <a href="Main.php">Home</a>
                </li>
                <li>
                    <a href="Services.php">Services</a>
                </li>
                <li>
                    <a href="Statistics.php">Statistics</a>
                </li>
                <li>
                    <a href="Sales.php">Sales</a>
                </li>
            </ul>
        </aside>
    </body>
</html>
```

```

        <li>
            <a href="More_info.php">More info</a>
        </li>
    </ul>
</aside>
<h1 id="welcome_message" style="text-align:left">Welcome to ASDF Palace</h1>

<!-- javascript -->
<script src="app.js"></script>

</body>
</html>

```

Services.php

```

<?php
    include_once 'includes/dbh.inc.php';
?>

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Services</title>
        <!-- font-awesome -->
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.14.0/css/all.min.css"
        />

        <!-- styles -->
        <link rel="stylesheet" href="styles.css" />
    </head>
    <body id="services_section">
        <button class="sidebar-toggle">
            <i class="fas fa-bars"></i>
        </button>
        <aside class="sidebar">
            <div class="sidebar-header">
                <button class="close-btn"><i class="fas fa-times"></i></button>
            </div>
            <!-- links -->
            <ul class="links">
                <li>

```



```

        <a href="Main.php">Home</a>
    </li>
    <li>
        <a href="Services.php">Services</a>
    </li>
    <li>
        <a href="Statistics.php">Statistics</a>
    </li>
    <li>
        <a href="Sales.php">Sales</a>
    </li>
    <li>
        <a href="More_info.php">More info</a>
    </li>
</ul>
</aside>

<section id="container">
    <h2 id="services_text">Find Services</h2>
    <br>
    <form id="views" action="Services.php" method="GET">
        <div id="component">
            <label for="available date">
                <h3>Choose a date</h3>
            </label>
            <input type="date" id="available date" name="availability" value="
0" min="2020-1-1" max="31-12-2021">
        </div>
        <br>
        <div id="component">
            <h3>Choose a service</h3>
            <select name="services" id="dropdown">
                <option selected value="none">None</option>
                <option value="room">Room</option>
                <option value="tennis court">Tennis Court</option>
                <option value="gym">Gym</option>
                <option value="pool">Pool</option>
                <option value="conference room">Conference Room</option>
                <option value="bar/restaurant">Bar/Restaurant</option>
                <option value="library">Library</option>
            </select>
        </div>
        <br>
        <div id="component">
            <label for="price">
                <h3>Choose a price</h3>
            </label>

```

```

        <!--
<input type="range" name="price" min="100" max="200" onchange="updateTextInput(
this.value);">
        <input type="text" id="price_text" value="">
        -->
        <input type="text" name="price" value="">
    </div>
    <br>
    <button type="submit" id="submit">
        <h3>Submit</h3>
    </button>
</form>
</section>

    <!-- javascript -->
    <script src="app.js"></script>
</body>

    <!-- PHP starts here -->

<?php
    $conn = new mysqli("localhost", "root", "", "asdf_palace3");
    if ($conn->connect_error) {
        die("Connection failed:" . $conn->connect_error);
    }
    $date = $_GET['availability'];
    $services = $_GET['services'];
    $price = $_GET['price'];

    if (isset($date) && $services == 'none' && $price == 0) {
        $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
        from customers,places
        where (nfc_id,place_id) in
        (SELECT nfc_id, place_id from visit where date_of_entrance = '$date')";
    }

    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>nfc_id</th>";
            echo "<th>first_name</th>";
            echo "<th>last_name</th>";
            echo "<th>place_id</th>";
            echo "<th>place_name</th>";
        }
    }

```

```

        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['nfc_id'] . "</td>";
            echo "<td>" . $row['first_name'] . "</td>";
            echo "<td>" . $row['last_name'] . "</td>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['place_name'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

} else if (isset($services) && empty($date) && $price == 0) {
    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
    from customers,places
    where (nfc_id,place_id) in
    (SELECT nfc_id, place_id from visit where place_id in (SELECT place_id
    from provide_to where service_id in (SELECT service_id from services where
    service_description = '$services') ))";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>nfc_id</th>";
            echo "<th>first_name</th>";
            echo "<th>last_name</th>";
            echo "<th>place_id</th>";
            echo "<th>place_name</th>";
            echo "</tr>";
            while ($row = mysqli_fetch_array($result)) {
                echo "<tr>";
                echo "<td>" . $row['nfc_id'] . "</td>";
                echo "<td>" . $row['first_name'] . "</td>";
                echo "<td>" . $row['last_name'] . "</td>";
                echo "<td>" . $row['place_id'] . "</td>";
                echo "<td>" . $row['place_name'] . "</td>";
                echo "</tr>";
            }
            echo "</table>";
            // Free result set
            mysqli_free_result($result);
        }
    }
}

```

```

    }
} else {
    echo "No results";
}
} else if (isset($price) && empty($date) && $services == 'none') {

    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
    from customers,places
    where (nfc_id,place_id) in
    (SELECT nfc_id, place_id

    from visit

    where nfc_id in

    (select nfc_id

    from receive_services

    where (date_of_charge, time_of_charge) in (select date_of_charge, time
_of_charge

    from service_charge

    where amount ='$price')

    )) ";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>nfc_id</th>";
        echo "<th>first_name</th>";
        echo "<th>last_name</th>";
        echo "<th>place_id</th>";
        echo "<th>place_name</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['nfc_id'] . "</td>";
            echo "<td>" . $row['first_name'] . "</td>";
            echo "<td>" . $row['last_name'] . "</td>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['place_name'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
    }
}

```

```

        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

} else if (isset($services) && isset($date) && $price == 0) {

    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
    from customers,places
    where (nfc_id,place_id) in
    (SELECT nfc_id, place_id

    from visit

    where date_of_entrance = '$date' and place_id in (select place_id

    from provide_to

    where service_id in

    (select service_id

    from services

    where service_description = '$services')

    ) )";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>nfc_id</th>";
            echo "<th>first_name</th>";
            echo "<th>last_name</th>";
            echo "<th>place_id</th>";
            echo "<th>place_name</th>";
            echo "</tr>";
            while ($row = mysqli_fetch_array($result)) {
                echo "<tr>";
                echo "<td>" . $row['nfc_id'] . "</td>";
                echo "<td>" . $row['first_name'] . "</td>";
                echo "<td>" . $row['last_name'] . "</td>";
                echo "<td>" . $row['place_id'] . "</td>";
                echo "<td>" . $row['place_name'] . "</td>";
                echo "</tr>";
            }
        }
    }
}

```

```

        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

} else if (isset($services) && isset($price) && empty($date)) {

    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
    from customers,places
    where (nfc_id,place_id) in
    (SELECT nfc_id, place_id

    from visit

    where place_id in (select place_id

    from provide_to

    where service_id in (select service_id

        from services

        where service_description = '$services')

    )

    and

    nfc_id in

    (select nfc_id

    from receive_services

    where (date_of_charge, time_of_charge) in (select date_of_charge, time
_of_charge

        from service_charge

        where amount = '$price')

    ) ) ";
    $result = $conn->query($sql);

```

```

if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>nfc_id</th>";
        echo "<th>first_name</th>";
        echo "<th>last_name</th>";
        echo "<th>place_id</th>";
        echo "<th>place_name</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['nfc_id'] . "</td>";
            echo "<td>" . $row['first_name'] . "</td>";
            echo "<td>" . $row['last_name'] . "</td>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['place_name'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

} else if (isset($price) && isset($date) && $services == 'none') {

    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
    from customers,places
    where (nfc_id,place_id) in
    (SELECT nfc_id, place_id

    from visit

    where date_of_entrance = '$date' and nfc_id in

    (select nfc_id

    from receive_services

    where (date_of_charge, time_of_charge) in (select date_of_charge, time
_of_charge

    from service_charge

    where amount = '$price'))";

```

```

) )";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>nfc_id</th>";
        echo "<th>first_name</th>";
        echo "<th>last_name</th>";
        echo "<th>place_id</th>";
        echo "<th>place_name</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['nfc_id'] . "</td>";
            echo "<td>" . $row['first_name'] . "</td>";
            echo "<td>" . $row['last_name'] . "</td>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['place_name'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
} else if (isset($price) && isset($date) && isset($services)) {

    $sql = "SELECT nfc_id,first_name,last_name,place_id,place_name
from customers,places
where (nfc_id,place_id) in
(select nfc_id, place_id

from visit

where date_of_entrance = '$date'

and

place_id in (select place_id

from provide_to

where service_id in (select service_id from services

where service_description = '$services') )

```



```

        and nfc_id in

        (select nfc_id from receive_services where (date_of_charge,time_of_ch
arge)
        in (select date_of_charge,time_of_charge from service_charge where am
ount = '$price') )
        ) ";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>nfc_id</th>";
        echo "<th>first_name</th>";
        echo "<th>last_name</th>";
        echo "<th>place_id</th>";
        echo "<th>place_name</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['nfc_id'] . "</td>";
            echo "<td>" . $row['first_name'] . "</td>";
            echo "<td>" . $row['last_name'] . "</td>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['place_name'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

}

$conn->close();
?>
</html>

```

Statistics.php

```

<?php
    include_once 'includes/dbh.inc.php';
?>

```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Statistics</title>
    <!-- font-awesome -->
    <link
      rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.14.0/css/all.min.css"
    />

    <!-- styles -->
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <button class="sidebar-toggle">
      <i class="fas fa-bars"></i>
    </button>
    <aside class="sidebar">
      <div class="sidebar-header">
        <button class="close-btn"><i class="fas fa-times"></i></button>
      </div>
      <!-- links -->
      <ul class="links">
        <li>
          <a href="Main.php">Home</a>
        </li>
        <li>
          <a href="Services.php">Services</a>
        </li>
        <li>
          <a href="Statistics.php">Statistics</a>
        </li>
        <li>
          <a href="Sales.php">Sales</a>
        </li>
        <li>
          <a href="More_info.php">More info</a>
        </li>
      </ul>
    </aside>

    <h2 id="services_text">Search for Statistics</h2>
    <form id="views" action="Statistics.php" method="GET">
```

```

<div id="component">
  <h3>When to look for?</h3>
  <select name="date" id="dropdown">
    <option selected value="none">None</option>
    <option value="last year">Last Year</option>
    <option value="last month">Last Month</option>
  </select>
</div>
<div id="component">
  <h3>What to show?</h3>
  <select name="services" id="dropdown">
    <option selected value="none">None</option>
    <option value="popular places">Popular Places</option>
    <option value="frequently used services">Frequently used services</o
ption>
    <option value="popular services">Popular Services</option>
  </select>
</div>
<div id="component">
  <h3>What is the age group?</h3>
  <select name="age" id="dropdown">
    <option selected value="none">None</option>
    <option value="1st">20-40</option>
    <option value="2st">41-60</option>
    <option value="3st">61+</option>
  </select>
</div>
<button type="submit" id="submit">
  <h3>Submit</h3>
</button>
</form>

<?php
$conn = new mysqli("localhost", "root", "", "asdf_palace3");
if ($conn->connect_error) {
  die("Connection failed:" . $conn->connect_error);
}
$date = $_GET['date'];
$services = $_GET['services'];
$age = $_GET['age'];

if ($date == 'last year' && $services == 'popular places' && $age == '1st'
) {
  $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
from visit

where (nfc_id in (select nfc_id

```

```

        from customers

        where(birthdate<='2001-01-01' and birthdate>='1981-01-01'))

        and

        date_of_entrance>= '2021-01-01')
        GROUP by place_id
        ORDER by number_of_visits DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular places' && $age == '1st
') {
    $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
    from visit

    where (nfc_id in (select nfc_id

    from customers

    where(birthdate<='2001-01-01' and birthdate>='1981-01-01'))

    and

    date_of_entrance>= '2021-12-01')
    GROUP by place_id
    ORDER by number_of_visits DESC";

```

```

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last year' && $services == 'popular places' && $age == '2st'
) {
    $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
from visit

where (nfc_id in (select nfc_id

from customers

where(birthdate<='1980-01-01' and birthdate>='1961-01-01'))

and

date_of_entrance>= '2021-01-01')
GROUP by place_id
ORDER by number_of_visits DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
    }
}
}

```

```

        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular places' && $age == '2st
') {
    $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
from visit

where (nfc_id in (select nfc_id

from customers

where(birthdate<='1980-01-01' and birthdate>='1961-01-01'))

and

date_of_entrance>= '2021-12-01')
GROUP by place_id
ORDER by number_of_visits DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
}

```

```

    }
    } else {
        echo "No results";
    }
}
if ($date == 'last year' && $services == 'popular places' && $age == '3st'
) {
    $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
from visit

where (nfc_id in (select nfc_id

from customers

where(birthdate<='1960-01-01'))

and

date_of_entrance>= '2021-01-01')
GROUP by place_id
ORDER by number_of_visits DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular places' && $age == '3st
') {
    $sql = "SELECT DISTINCT place_id,COUNT(place_id) as number_of_visits
from visit

```

```

where (nfc_id in (select nfc_id

from customers

where(birthdate<='1960-01-01'))

and

date_of_entrance>= '2021-12-01')
GROUP by place_id
ORDER by number_of_visits DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>place_id</th>";
        echo "<th>number_of_visits</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['place_id'] . "</td>";
            echo "<td>" . $row['number_of_visits'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}

if ($date == 'last year' && $services == 'frequently used services' && $age == '1st') {
    $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='2001-01-01' and birthdate>='1981-01-01')

```



```

and

date_of_charge>= '2021-01-01'
group by service_id
ORDER BY most_used_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_used_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_used_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}

}
if ($date == 'last month' && $services == 'frequently used services' && $age == '1st') {
    $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='2001-01-01' and birthdate>='1981-01-01')

and

date_of_charge>= '2021-12-01'
group by service_id
ORDER BY most_used_services DESC";

$result = $conn->query($sql);

```

```

        if ($result->num_rows > 0) {
            if (mysqli_num_rows($result) > 0) {
                echo "<table>";
                echo "<tr>";
                echo "<th>service_id</th>";
                echo "<th>most_used_services</th>";
                echo "</tr>";
                while ($row = mysqli_fetch_array($result)) {
                    echo "<tr>";
                    echo "<td>" . $row['service_id'] . "</td>";
                    echo "<td>" . $row['most_used_services'] . "</td>";
                    echo "</tr>";
                }
                echo "</table>";
                // Free result set
                mysqli_free_result($result);
            }
        } else {
            echo "No results";
        }
    }
    if ($date == 'last year' && $services == 'frequently used services' && $age == '2st') {
        $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services
        from receive_services
        where nfc_id in (select nfc_id
        from customers
        where birthdate<='1980-01-01' and birthdate>='1961-01-01')
        and
        date_of_charge>= '2021-01-01'
        group by service_id
        ORDER BY most_used_services DESC";

        $result = $conn->query($sql);
        if ($result->num_rows > 0) {
            if (mysqli_num_rows($result) > 0) {
                echo "<table>";
                echo "<tr>";
                echo "<th>service_id</th>";
                echo "<th>most_used_services</th>";
                echo "</tr>";
            }
        }
    }
}

```

```

        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_used_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'frequently used services' && $age == '2st') {
    $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services
    from receive_services
    where nfc_id in (select nfc_id
    from customers
    where birthdate<='1980-01-01' and birthdate>='1961-01-01')
    and
    date_of_charge>= '2021-12-01'
    group by service_id
    ORDER BY most_used_services DESC";

    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>service_id</th>";
            echo "<th>most_used_services</th>";
            echo "</tr>";
            while ($row = mysqli_fetch_array($result)) {
                echo "<tr>";
                echo "<td>" . $row['service_id'] . "</td>";
                echo "<td>" . $row['most_used_services'] . "</td>";
                echo "</tr>";
            }
            echo "</table>";
        }
    }
}

```

```

        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last year' && $services == 'frequently used services' && $age == '3st') {
    $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='1960-01-01' )

and

date_of_charge>= '2021-01-01'
group by service_id
ORDER BY most_used_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_used_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_used_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
}

```

```

    if ($date == 'last month' && $services == 'frequently used services' && $age == '3st') {
        $sql = "SELECT DISTINCT service_id, count(service_id) as most_used_services

        from receive_services

        where nfc_id in (select nfc_id

        from customers

        where birthdate<='1960-01-01' )

        and

        date_of_charge>= '2021-12-01'
        group by service_id
        ORDER BY most_used_services DESC";

        $result = $conn->query($sql);
        if ($result->num_rows > 0) {
            if (mysqli_num_rows($result) > 0) {
                echo "<table>";
                echo "<tr>";
                echo "<th>service_id</th>";
                echo "<th>most_used_services</th>";
                echo "</tr>";
                while ($row = mysqli_fetch_array($result)) {
                    echo "<tr>";
                    echo "<td>" . $row['service_id'] . "</td>";
                    echo "<td>" . $row['most_used_services'] . "</td>";
                    echo "</tr>";
                }
                echo "</table>";
                // Free result set
                mysqli_free_result($result);
            }
        } else {
            echo "No results";
        }
    }
    if ($date == 'last year' && $services == 'popular services' && $age == '1st') {
        $sql = "SELECT service_id , count(nfc_id) as most_popular_services

        from receive_services

        where nfc_id in (select nfc_id

```

```

from customers

where birthdate<='2001-01-01' and birthdate>='1981-01-01')

and

date_of_charge>= '2021-01-01'

group by service_id

order by most_popular_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_popular_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular services' && $age == '1st') {
    $sql = "SELECT service_id , count(nfc_id) as most_popular_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='2001-01-01' and birthdate>='1981-01-01')

and

```

```

        date_of_charge>= '2021-12-01'

        group by service_id

        order by most_popular_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_popular_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last year' && $services == 'popular services' && $age == '2s
t') {
    $sql = "SELECT service_id , count(nfc_id) as most_popular_services

    from receive_services

    where nfc_id in (select nfc_id

    from customers

    where birthdate<='1980-01-01' and birthdate>='1961-01-01')

    and

    date_of_charge>= '2021-01-01'

    group by service_id

    order by most_popular_services DESC";

```

```

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_popular_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular services' && $age == '2
st') {
    $sql = "SELECT service_id , count(nfc_id) as most_popular_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='1980-01-01' and birthdate>='1961-01-01')

and

date_of_charge>= '2021-12-01'

group by service_id

order by most_popular_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";

```



```

        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_popular_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
} else {
    echo "No results";
}
}
if ($date == 'last year' && $services == 'popular services' && $age == '3s
t') {
    $sql = "SELECT service_id , count(nfc_id) as most_popular_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='1960-01-01')

and

date_of_charge>= '2021-01-01'

group by service_id

order by most_popular_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";

```

```

        echo "<td>" . $row['most_popular_services'] . "</td>";
        echo "</tr>";
    }
    echo "</table>";
    // Free result set
    mysqli_free_result($result);
}
} else {
    echo "No results";
}
}
if ($date == 'last month' && $services == 'popular services' && $age == '3
st') {
    $sql = "SELECT service_id , count(nfc_id) as most_popular_services

from receive_services

where nfc_id in (select nfc_id

from customers

where birthdate<='1960-01-01')

and

date_of_charge>= '2021-12-01'

group by service_id

order by most_popular_services DESC";

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>service_id</th>";
        echo "<th>most_popular_services</th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['service_id'] . "</td>";
            echo "<td>" . $row['most_popular_services'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
}
}

```

```

    }
    } else {
        echo "No results";
    }
}
if ($date == 'none' | $services == 'none' | $age == 'none') {
    echo "<h3>Write all the attributes</h3>";
}
?>

<!-- javascript -->
<script src="app.js"></script>
</body>
</html>

```

Sales.php

```

<?php
    include_once 'includes/dbh.inc.php';
?>

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Sales</title>
        <!-- font-awesome -->
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.14.0/css/all.min.css"
        />

        <!-- styles -->
        <link rel="stylesheet" href="styles.css" />
    </head>
    <body>
        <button class="sidebar-toggle">
            <i class="fas fa-bars"></i>
        </button>
        <aside class="sidebar">
            <div class="sidebar-header">
                <button class="close-btn"><i class="fas fa-times"></i></button>
            </div>
            <!-- links -->

```

```

<ul class="links">
  <li>
    <a href="Main.php">Home</a>
  </li>
  <li>
    <a href="Services.php">Services</a>
  </li>
  <li>
    <a href="Statistics.php">Statistics</a>
  </li>
  <li>
    <a href="Sales.php">Sales</a>
  </li>
  <li>
    <a href="More_info.php">More info</a>
  </li>
</ul>
</aside>

<h2 id="services_text">Sales and Customers Info</h2>
<form id="views_sales" action="Sales.php" method="GET">
  <div id="component">
    <select name="services" id="dropdown">
      <option value="none">None</option>
      <option value="sales">Sales</option>
      <option value="customers">Customers</option>
    </select>
  </div><br>
  <button type="submit" id="submit">
    <h3>Submit</h3>
  </button>
</form>

<!-- javascript -->
<script src="app.js"></script>
</body>

<?php
$conn = new mysqli("localhost", "root", "", "asdf_palace3");
if ($conn->connect_error) {
  die("Connection failed:" . $conn->connect_error);
}
$services = $_GET['services'];

if ($services == 'sales') {
  $sql = "SELECT * from sales_info";

```

```

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table>";
        echo "<tr>";
        echo "<th>description_of_charge</th>";
        echo "<th>Total_amount ($) </th>";
        echo "</tr>";
        while ($row = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $row['description_of_charge'] . "</td>";
            echo "<td>" . $row['SUM(s.amount)'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    }
}

if ($services == 'customers') {
    $sql = "SELECT * from customer_info";

    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>first_name</th>";
            echo "<th>last_name</th>";
            echo "<th>birthdate</th>";
            echo "<th>nfc_id</th>";
            echo "<th>id_documents</th>";
            echo "<th>type_of_document</th>";
            echo "<th>authority_of_id</th>";
            echo "<th>phone</th>";
            echo "<th>email</th>";
            echo "</tr>";
            while ($row = mysqli_fetch_array($result)) {
                echo "<tr>";
                echo "<td>" . $row['first_name'] . "</td>";
                echo "<td>" . $row['last_name'] . "</td>";
                echo "<td>" . $row['birthdate'] . "</td>";
                echo "<td>" . $row['nfc_id'] . "</td>";
                echo "<td>" . $row['id_doc_number'] . "</td>";
                echo "<td>" . $row['type_id_doc'] . "</td>";
                echo "<td>" . $row['issuing_authority'] . "</td>";
                echo "<td>" . $row['phone_number'] . "</td>";
            }
        }
    }
}

```

```

        echo "<td>" . $row['email'] . "</td>";
        echo "</tr>";
    }
    echo "</table>";
    // Free result set
    mysqli_free_result($result);
}
}
}
if ($services == 'none') {
    echo "<h3>Choose an option</h3>";
}

$conn->close();
?>

</html>

```

More info

```

<?php
    include_once 'includes/dbh.inc.php';
?>

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>More Info</title>
        <!-- font-awesome -->
        <link
            rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.14.0/css/all.min.css"
        />

        <!-- styles -->
        <link rel="stylesheet" href="styles.css" />
    </head>
    <body>
        <button class="sidebar-toggle">
            <i class="fas fa-bars"></i>
        </button>
        <aside class="sidebar">
            <div class="sidebar-header">
                <button class="close-btn"><i class="fas fa-times"></i></button>
            </div>
        </aside>
    </body>
</html>

```

```

</div>
<!-- links -->
<ul class="links">
  <li>
    <a href="Main.php">Home</a>
  </li>
  <li>
    <a href="Services.php">Services</a>
  </li>
  <li>
    <a href="Statistics.php">Statistics</a>
  </li>
  <li>
    <a href="Sales.php">Sales</a>
  </li>
  <li>
    <a href="More_info.php">More_info</a>
  </li>
</ul>
</aside>

<h2 id="services_text">Do i have covid-19?</h2>
<form id="views_sales" action="More_info.php" method="GET">
  <div id="component">
    <select name="services" id="dropdown">
      <option selected value="none">None</option>
      <option value="history of case">Visit History</option>
      <option value="possible patients">Possible Covid Patients</option>
    </select>
  </div>
  <div id="component">
    <input type="text" name="nfc_id" placeholder="Give nfc_id" >
  </div>
  <button type="submit" id="submit" class="nfc_id">
    <h3>Submit</h3>
  </button>
</form>

<!-- javascript -->
<script src="app.js"></script>
</body>

<?php
$conn = new mysqli("localhost", "root", "", "asdf_palace3");
if ($conn->connect_error) {
    die("Connection failed:" . $conn->connect_error);
}

```

```

$services = $_GET['services'];
$nfc_id = $_GET['nfc_id'];
if ($services == 'history of case' & isset($nfc_id)) {
    $sql = "SELECT * FROM visit WHERE nfc_id='$nfc_id'";

    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        if (mysqli_num_rows($result) > 0) {
            echo "<table>";
            echo "<tr>";
            echo "<th>date_of_entrance</th>";
            echo "<th>time_of_entrance</th>";
            echo "<th>date_of_exit</th>";
            echo "<th>time_of_exit</th>";
            echo "<th>nfc_id</th>";
            echo "<th>place_id</th>";
            echo "</tr>";
            while ($row = mysqli_fetch_array($result)) {
                echo "<tr>";
                echo "<td>" . $row['date_of_entrance'] . "</td>";
                echo "<td>" . $row['time_of_entrance'] . "</td>";
                echo "<td>" . $row['date_of_exit'] . "</td>";
                echo "<td>" . $row['time_of_exit'] . "</td>";
                echo "<td>" . $row['nfc_id'] . "</td>";
                echo "<td>" . $row['place_id'] . "</td>";
                echo "</tr>";
            }
            echo "</table>";
            // Free result set
            mysqli_free_result($result);
        }
    } else {
        echo "<h3>Not valid nfc_id</h3>";
    }
}

if ($services == 'possible patients' & isset($nfc_id)) {
    $sql = "SELECT DISTINCT v.nfc_id,v.date_of_entrance,v.time_of_entrance
,v.time_of_exit,v.place_id
FROM visit as v, visit as s
WHERE ((v.time_of_entrance <TIMESTAMPADD(HOUR,1,s.time_of_exit) and v.
time_of_entrance>s.time_of_entrance) OR (v.time_of_exit <TIMESTAMPADD(HOUR,1,s
.time_of_exit) and v.time_of_exit>s.time_of_entrance) )
AND v.place_id=s.place_id and v.date_of_entrance=s.date_of_entrance an
d v.nfc_id <>s.nfc_id
and s.nfc_id='$nfc_id'";

    $result = $conn->query($sql);

```



```

        if ($result->num_rows > 0) {
            if (mysqli_num_rows($result) > 0) {
                echo "<table>";
                echo "<tr>";
                echo "<th>nfc_id</th>";
                echo "<th>date_of_entrance</th>";
                echo "<th>time_of_entrance</th>";
                echo "<th>time_of_exit</th>";
                echo "<th>place_id</th>";
                echo "</tr>";
                while ($row = mysqli_fetch_array($result)) {
                    echo "<tr>";
                    echo "<td>" . $row['nfc_id'] . "</td>";
                    echo "<td>" . $row['date_of_entrance'] . "</td>";
                    echo "<td>" . $row['time_of_entrance'] . "</td>";
                    echo "<td>" . $row['time_of_exit'] . "</td>";
                    echo "<td>" . $row['place_id'] . "</td>";
                    echo "</tr>";
                }
                echo "</table>";
                // Free result set
                mysqli_free_result($result);
            }
        } else {
            echo "<h3>Not valid nfc_id</h3>";
        }
    }

    $conn->close();
?>
</html>

```

App.js

```

const toggleBtn = document.querySelector(".sidebar-toggle");
const closeBtn = document.querySelector(".close-btn");
const sidebar = document.querySelector(".sidebar");

toggleBtn.addEventListener("click", function () {
    // if (sidebar.classList.contains("show-sidebar")) {
    //     sidebar.classList.remove("show-sidebar");
    // } else {
    //     sidebar.classList.add("show-sidebar");
    // }
    sidebar.classList.toggle("show-sidebar");
});

```

```
closeBtn.addEventListener("click", function () {
  sidebar.classList.remove("show-sidebar");
});
```

styles.css

```
/*
=====
Fonts
=====
*/
@import url("https://fonts.googleapis.com/css?family=Open+Sans|Roboto:400,700&
display=swap");

/*
=====
Variables
=====
*/

:root {
  --ff-primary: "Roboto", sans-serif;
  --ff-secondary: "Open Sans", sans-serif;
  --transition: all 0.3s linear;
  --spacing: 0.1rem;
  --radius: 0.25rem;
  --light-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);
  --dark-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);
  --max-width: 1170px;
  --fixed-width: 620px;
}

/*
=====
Global Styles
=====
*/

*,
::after,
::before {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: var(--ff-primary);
  background: rgb(250, 188, 18);
```

```
    color: hsl(290, 94%, 34%);
    line-height: 1.5;
    font-size: 0.875rem;
  }
  ul {
    list-style-type: none;
  }
  a {
    text-decoration: none;
  }
  h1,
  h2,
  h3,
  h4 {
    letter-spacing: var(--spacing);
    text-transform: capitalize;
    line-height: 1.25;
    margin-bottom: 0.75rem;
    font-family: var(--ff-primary);
  }
  h1 {
    font-size: 3rem;
  }
  h2 {
    font-size: 2rem;
  }
  h3 {
    font-size: 1.25rem;
  }
  h4 {
    font-size: 0.875rem;
  }
  p {
    margin-bottom: 1.25rem;
    color: hsl(290, 73%, 59%);
  }
  @media screen and (min-width: 800px) {
    h1 {
      font-size: 4rem;
    }
    h2 {
      font-size: 2.5rem;
    }
    h3 {
      font-size: 1.75rem;
    }
    h4 {
      font-size: 1rem;
    }
  }
}
```

```

}
body {
  font-size: 1rem;
}
h1,
h2,
h3,
h4 {
  line-height: 1;
}
}
/* global classes */

/* section */
.section {
  padding: 5rem 0;
}

.section-center {
  width: 90vw;
  margin: 0 auto;
  max-width: 1170px;
}
@media screen and (min-width: 992px) {
  .section-center {
    width: 95vw;
  }
}
main {
  min-height: 100vh;
  display: grid;
  place-items: center;
}

/*
=====
Sidebar
=====
*/
.sidebar-toggle {
  position: fixed;
  top: 2rem;
  right: 3rem;
  font-size: 2rem;
  background: transparent;
  border-color: transparent;
  color: hsl(290, 94%, 34%);
  transition: var(--transition);

```

```
    cursor: pointer;
    animation: bounce 2s ease-in-out infinite;
}
.sidebar-toggle:hover {
    color: hsl(290, 73%, 59%);
}
@keyframes bounce {
    0% {
        transform: scale(1);
    }
    50% {
        transform: scale(1.5);
    }
    100% {
        transform: scale(1);
    }
}

.sidebar-header {
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding: 1rem 1.5rem;
}

.close-btn {
    font-size: 1.75rem;
    background: transparent;
    border-color: transparent;
    color: hsl(290, 94%, 34%);
    transition: var(--transition);
    cursor: pointer;
}

.close-btn:hover {
    color: hsl(290, 73%, 59%);
    transform: rotate(360deg);
}

.links a {
    border-bottom: #222;
    border-top: #222;
    border-width: 10px;
    display: block;
    font-size: 1.5rem;
    text-transform: capitalize;
    padding: 1rem 1.5rem;
    color: hsl(290, 94%, 34%);
    transition: var(--transition);
}
```

```

.links a:hover {
  color: hsl(290, 73%, 59%);
  padding-left: 1.75rem;
}

.sidebar {
  position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background: linear-gradient(45deg,rgb(250, 188, 18),rgb(247, 60, 3));
  display: grid;
  grid-template-rows: auto 1fr auto;
  row-gap: 1rem;
  box-shadow: var(--clr-red-dark);
  transition: var(--transition);
  transform: translate(-100%);
}

.show-sidebar {
  transform: translate(0);
}

#welcome_message{
  margin-top: 270px;
  margin-left: 270px;
}

```

test_python06.py

```

import mysql.connector
import numpy as np
import array
import random

mydatabase = mysql.connector.connect(
    host = "localhost",
    user = "root",
    passwd = "",
    port = "3306",
    database = "asdf_palace4"
)

check=4000*[None]
flag=0
cursor = mydatabase.cursor()

```

```

year=[2020,2021]
month=np.arange(1,13)
day=np.arange(1,24)
hour=np.arange(8,23)
minutes=np.arange(0,60)
seconds=np.arange(0,60)
nfc_id=np.arange(1,1001)
room_id1=np.arange(1,401)
room_id=array.array('i',room_id1)
service_id=[1,2,3,4] #
service_id2=[1,2,3,4,5,6,7]
amount=np.arange(20,41)
space=np.arange(0,3996)
combinations = [[a, b] for a in nfc_id
                  for b in service_id2 if a != b]
for i in range (0,2000):
    y = np.random.choice(year)
    m = np.random.choice(month)
    d = np.random.choice(day)
    h = np.random.choice(hour)
    mi = np.random.choice(minutes)
    sec = np.random.choice(seconds)
    registration_date1 = "-".join([str(y),str(m),str(d)])
    registration_time1 = ":".join([str(h),str(mi),str(sec)])
    registration_date2 = "-".join([str(y),str(m),str(d+5)])
    registration_time2 = ":".join([str(h),str(mi),str(sec)])
    #useful
    #registration_datetime1 = " ".join([str(registration_date1),str(registrati
on_time1)])
    #registration_datetime2 = " ".join([str(registration_date2),str(registrati
on_time2)])
    #=====

    c=np.random.choice(space)
    a=combinations[c][0]
    b=combinations[c][1]
    #print(a,b)

    for j in range(0,i):
        if (check[j]==c):
            flag=1
    if (flag==0):
        check[i]=c
    else:
        flag=0
        continue

    if b<5 :

```

```

        sql1="""
        INSERT INTO register_to_services (nfc_id,service_id,date_of_registration,time_of_registration) VALUES(%s,%s,%s,%s)"""
        data=(int(a),int(b),registration_date1,registration_time1)
        print (data)
        cursor.execute(sql1,data)
        mydatabase.commit()
    if (b==2):
        room=np.random.choice(room_id)
        room_id.remove(room)
        sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_start,date_of_end,time_of_end)
        VALUES(%s,%s,%s,%s,%s,%s)"""
        data=(int(a),int(room),registration_date1,registration_time1,registration_date2,registration_time2)
        cursor.execute(sql2,data)
        mydatabase.commit()

    for j in range (5):
        room=401+j
        sql3="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_start,date_of_end,time_of_end)
        VALUES(%s,%s,%s,%s,%s,%s)"""
        data=(str(a),str(room),registration_date1,registration_time1,registration_date2,registration_time2)
        cursor.execute(sql3,data)
        mydatabase.commit()

        sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_of_entrance,date_of_exit,time_of_exit)
        VALUES(%s,%s,%s,%s,%s,%s)"""
        day10=np.arange(d,d+5)
        current_day=np.random.choice(day10)
        date="-".join([str(y),str(m+current_day//28),str(current_day%28+1)])
        current_hour=np.random.choice(hour)
        current_minute=np.random.choice(minutes)
        current_second=np.random.choice(seconds)
        time=":".join([str(current_hour),str(current_minute),str(current_second)])
        exit_time=":".join([str(current_hour+2),str(current_minute),str(current_second)])
        #final_date_entrance=" ".join([str(date),str(time)])
        #final_date_exit=" ".join([str(date),str(exit_time)])
        data=(str(a),str(room),date,time,date,exit_time)
        cursor.execute(sql5,data)
        mydatabase.commit()

```



```

        sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(date,exit_time,str(np.random.choice(amount)), 'tennis court')
        cursor.execute(sql6,data)
        mydatabase.commit()

        sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_ch
arge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(str(a),str(b),date,exit_time)
        cursor.execute(sql7,data)
        mydatabase.commit()

#         room=440
#         sql4="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_st
art,date_of_end,time_of_end)
#             VALUES(%s,%s,%s,%s,%s,%s)"""
#         data=(str(a),str(room),registration_date1,registration_time1,registr
ation_date2,registration_time2)
#         cursor.execute(sql4,data)
#         mydatabase.commit()

    elif (b==3):
        for j in range (5):
            room=406+j
            sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_
start,date_of_end,time_of_end)
VALUES(%s,%s,%s,%s,%s,%s)"""
            data=(str(a),str(room),registration_date1,registration_time1,regis
tration_date2,registration_time2)
            cursor.execute(sql2,data)
            mydatabase.commit()

            sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_o
f_entrance,date_of_exit,time_of_exit)
VALUES(%s,%s,%s,%s,%s,%s)"""
            day10=np.arange(d,d+5)
            current_day=np.random.choice(day10)
            date="-
".join([str(y),str(m+current_day//28),str(current_day%28+1)])
            current_hour=np.random.choice(hour)
            current_minute=np.random.choice(minutes)
            current_second=np.random.choice(seconds)
            time=":".join([str(current_hour),str(current_minute),str(current_s
econd)])
            exit_time=":".join([str(current_hour+2),str(current_minute),str(cu
rrent_second)])

```

```

        #final_date_entrance=" ".join([str(date),str(time)])
        #final_date_exit=" ".join([str(date),str(exit_time)])
        data=(str(a),str(room),date,time,date,exit_time)
        cursor.execute(sql5,data)
        mydatabase.commit()

        sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(date,exit_time,str(np.random.choice(amount)), 'gym')
        cursor.execute(sql6,data)
        mydatabase.commit()

        sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_ch
arge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(str(a),str(b),date,exit_time)
        cursor.execute(sql7,data)
        mydatabase.commit()

    elif (b==4):
        for j in range (5):
            room=411+j
            sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_
start,date_of_end,time_of_end)
VALUES(%s,%s,%s,%s,%s,%s)"""
            data=(str(a),str(room),registration_date1,registration_time1,regis
tration_date2,registration_time2)
            cursor.execute(sql2,data)
            mydatabase.commit()

            sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_o
f_entrance,date_of_exit,time_of_exit)
VALUES(%s,%s,%s,%s,%s,%s)"""
            day10=np.arange(d,d+5)
            current_day=np.random.choice(day10)
            date="-
".join([str(y),str(m+current_day//28),str(current_day%28+1)])
            current_hour=np.random.choice(hour)
            current_minute=np.random.choice(minutes)
            current_second=np.random.choice(seconds)
            time=":".join([str(current_hour),str(current_minute),str(current_s
econd)])
            exit_time=":".join([str(current_hour+2),str(current_minute),str(cu
rrent_second)])
            #final_date_entrance=" ".join([str(date),str(time)])
            #final_date_exit=" ".join([str(date),str(exit_time)])
            data=(str(a),str(room),date,time,date,exit_time)

```

```

        cursor.execute(sql5,data)
        mydatabase.commit()

        sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(date,exit_time,str(np.random.choice(amount)), 'pool')
        cursor.execute(sql6,data)
        mydatabase.commit()

        sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_ch
arge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(str(a),str(b),date,exit_time)
        cursor.execute(sql7,data)
        mydatabase.commit()

    elif (b==5):
        for j in range (10):
            room=416+j
            sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_
start,date_of_end,time_of_end)
VALUES(%s,%s,%s,%s,%s,%s)"""
            data=(str(a),str(room),registration_date1,registration_time1,regis
tration_date2,registration_time2)
            cursor.execute(sql2,data)
            mydatabase.commit()

            sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_o
f_entrance,date_of_exit,time_of_exit)
VALUES(%s,%s,%s,%s,%s,%s)"""
            day10=np.arange(d,d+5)
            current_day=np.random.choice(day10)
            date="-
".join([str(y),str(m+current_day//28),str(current_day%28+1)])
            current_hour=np.random.choice(hour)
            current_minute=np.random.choice(minutes)
            current_second=np.random.choice(seconds)
            time=":".join([str(current_hour),str(current_minute),str(current_s
econd)])
            exit_time=":".join([str(current_hour+2),str(current_minute),str(cu
rrent_second)])
            #final_date_entrance=" ".join([str(date),str(time)])
            #final_date_exit=" ".join([str(date),str(exit_time)])
            data=(str(a),str(room),date,time,date,exit_time)
            cursor.execute(sql5,data)
            mydatabase.commit()

```

```

        sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(date,exit_time,str(np.random.choice(amount)), 'conference room')

        cursor.execute(sql6,data)
        mydatabase.commit()

        sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_charge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(str(a),str(b),date,exit_time)
        cursor.execute(sql7,data)
        mydatabase.commit()

    elif (b==6):
        for j in range (9):
            room=426+j
            sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_start,date_of_end,time_of_end)
VALUES(%s,%s,%s,%s,%s,%s)"""
            data=(str(a),str(room),registration_date1,registration_time1,registration_date2,registration_time2)
            cursor.execute(sql2,data)
            mydatabase.commit()

            sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_of_entrance,date_of_exit,time_of_exit)
VALUES(%s,%s,%s,%s,%s,%s)"""
            day10=np.arange(d,d+5)
            current_day=np.random.choice(day10)
            date="-".join([str(y),str(m+current_day//28),str(current_day%28+1)])
            current_hour=np.random.choice(hour)
            current_minute=np.random.choice(minutes)
            current_second=np.random.choice(seconds)
            time=":".join([str(current_hour),str(current_minute),str(current_second)])

            exit_time=":".join([str(current_hour+2),str(current_minute),str(current_second)])

            #final_date_entrance=" ".join([str(date),str(time)])
            #final_date_exit=" ".join([str(date),str(exit_time)])
            data=(str(a),str(room),date,time,date,exit_time)
            cursor.execute(sql5,data)
            mydatabase.commit()

            sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)

```

```

VALUES(%s,%s,%s,%s)"""
data=(date,exit_time,str(np.random.choice(amount)), 'bar/restaurant
')

cursor.execute(sql6,data)
mydatabase.commit()

sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_ch
arge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
data=(str(a),str(b),date,exit_time)
cursor.execute(sql7,data)
mydatabase.commit()

elif (b==7):
    for j in range (6):
        room=435+j
        sql2="""INSERT INTO access (nfc_id,place_id,date_of_start,time_of_
start,date_of_end,time_of_end)
VALUES(%s,%s,%s,%s,%s,%s)"""
data=(str(a),str(room),registration_date1,registration_time1,regis
tration_date2,registration_time2)
cursor.execute(sql2,data)
mydatabase.commit()

sql5="""INSERT INTO visit (nfc_id,place_id,date_of_entrance,time_o
f_entrance,date_of_exit,time_of_exit)
VALUES(%s,%s,%s,%s,%s,%s)"""
day10=np.arange(d,d+5)
current_day=np.random.choice(day10)
date="-
".join([str(y),str(m+current_day//28),str(current_day%28+1)])
current_hour=np.random.choice(hour)
current_minute=np.random.choice(minutes)
current_second=np.random.choice(seconds)
time=":".join([str(current_hour),str(current_minute),str(current_s
econd)])
exit_time=":".join([str(current_hour+2),str(current_minute),str(cu
rrent_second)])
#final_date_entrance=" ".join([str(date),str(time)])
#final_date_exit=" ".join([str(date),str(exit_time)])
data=(str(a),str(room),date,time,date,exit_time)
cursor.execute(sql5,data)
mydatabase.commit()

sql6="""INSERT INTO service_charge (date_of_charge,time_of_charge,
amount,description_of_charge)
VALUES(%s,%s,%s,%s)"""
data=(date,exit_time,str(np.random.choice(amount)), 'library')

```

```
        cursor.execute(sql6,data)
        mydatabase.commit()

        sql7="""INSERT INTO receive_services (nfc_id,service_id,date_of_ch
arge,time_of_charge)
VALUES(%s,%s,%s,%s)"""
        data=(str(a),str(b),date,exit_time)
        cursor.execute(sql7,data)
        mydatabase.commit()

print("done")
```