

Experiment: Tourism Management Application Using PHP

Aim

To develop an online tourism management application using **PHP and MySQL** that displays season-based trip details, travel modes, concession details for passengers, and supports booking and cancelling tickets.

Software & Hardware Requirements

- PHP 7+ / XAMPP or WAMP Server
 - MySQL Database
 - HTML5, CSS3
 - Browser (Chrome/Firefox)
 - Code Editor (VS Code / Sublime)
 - Minimum 4GB RAM system
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Theory

A Tourism Management System is a web-based application that helps users view available trips based on travel seasons and book or cancel tickets. PHP handles server-side processing, while MySQL is used to manage the database.

Key Functionalities

- Season-based trip display
 - Travel mode selection (Bus, Train, Flight, etc.)
 - Concession details (Senior citizen, Student, Defense, Children)
 - Ticket booking
 - Ticket cancellation
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Database Design

1. trips Table

Field	Type	Description
trip_id	INT (PK)	Unique Trip ID
place	VARCHAR(50)	Destination
season	VARCHAR(20)	Season (Winter/Summer/Monsoon)

Field	Type	Description
mode	VARCHAR(20)	Mode of Travel
price	DECIMAL(10,2)	Base Fare

2. bookings Table

Field	Type	Description
booking_id	INT (PK)	Booking ID
name	VARCHAR(50)	Passenger Name
age	INT	Passenger Age
concession	VARCHAR(50)	Concession Type
trip_id	INT (FK)	Trip ID
status	VARCHAR(10)	booked/cancelled

Create Table Queries

```
CREATE TABLE trips (
    trip_id INT PRIMARY KEY,
    place VARCHAR(50),
    season VARCHAR(20),
    mode VARCHAR(20),
    price DECIMAL(10,2)
);
```

```
CREATE TABLE bookings (
    booking_id INT PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(50),
    age INT,
    concession VARCHAR(50),
    trip_id INT,
    status VARCHAR(10),
    FOREIGN KEY (trip_id) REFERENCES trips(trip_id)
);
```

Algorithm

1. Create database and required tables.
 2. Build a PHP page to display season-based trips.
 3. Create a booking form with passenger details.
 4. Apply concession logic during fare calculation.
 5. Insert booking details into database.
 6. Create a cancellation page to update booking status.
 7. Display confirmation messages to the user.
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Program

1. Trip Display Page (trips.php)

```
<?php
$conn = mysqli_connect("localhost", "root", "", "tourism");
$season = $_GET['season'];

$sql = "SELECT * FROM trips WHERE season='$season'";
$result = mysqli_query($conn, $sql);

echo "<h2>Available Trips for $season Season</h2>";

echo "<table border='1'><tr><th>Trip
ID</th><th>Place</th><th>Mode</th><th>Price</th></tr>";
while ($row = mysqli_fetch_assoc($result)) {
    echo "<tr>
        <td>{$row['trip_id']}</td>
        <td>{$row['place']}</td>
        <td>{$row['mode']}</td>
        <td>{$row['price']}</td>
    </tr>";
}
echo "</table>";
?>
```

2. Booking Form (book.html)

```
<!DOCTYPE html>
<html>
<head><title>Book Ticket</title></head>
<body>
<h2>Ticket Booking</h2>
<form method="POST" action="book.php">
    Name: <input type="text" name="name"><br><br>
    Age: <input type="number" name="age"><br><br>
    Concession:
    <select name="concession">
        <option>None</option>
        <option>Senior Citizen</option>
        <option>Student</option>
        <option>Children</option>
    </select><br><br>
    Trip ID: <input type="text" name="trip_id"><br><br>
    <input type="submit" value="Book Ticket">
</form>
</body>
</html>
```

3. Booking Script (book.php)

```
<?php
$conn = mysqli_connect("localhost", "root", "", "tourism");

$name = $_POST['name'];
$age = $_POST['age'];
$concession = $_POST['concession'];
$trip_id = $_POST['trip_id'];

$fareRes = mysqli_query($conn, "SELECT price FROM trips WHERE
trip_id='$trip_id'");
$fare = mysqli_fetch_assoc($fareRes)['price'];

if ($concession == "Senior Citizen") $fare *= 0.7;
else if ($concession == "Student") $fare *= 0.85;
else if ($concession == "Children") $fare *= 0.5;

$sql = "INSERT INTO bookings(name, age, concession, trip_id, status)
VALUES ('$name', '$age', '$concession', '$trip_id', 'booked')";

if (mysqli_query($conn, $sql)) {
    echo "Ticket Booked Successfully! Final Fare: Rs. $fare";
} else {
    echo "Error: " . mysqli_error($conn);
}
?>
```

4. Cancel Booking (cancel.php)

```
<?php
$conn = mysqli_connect("localhost", "root", "", "tourism");
$booking_id = $_GET['booking_id'];

$sql = "UPDATE bookings SET status='cancelled' WHERE
booking_id='$booking_id'";

if (mysqli_query($conn, $sql)) {
    echo "Ticket Cancelled Successfully";
} else {
    echo "Error: " . mysqli_error($conn);
}
?>
```

Output

- Displays season-based trip details.
 - Shows travel mode and fare.
 - Applies concession rules.
 - Allows booking and cancellation.
 - Stores all data in MySQL database.
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Result

The tourism management application using PHP and MySQL was successfully developed. The system manages trips, applies concessions, and supports ticket booking and cancellation based on user requirements.