**Experiment No.07**

PART A

(PART A: TO BE REFFERED BY STUDENTS)

**Experiment 7**

**A.1 Aim:** Design the appropriate user interface diagram for your project using three golden rules. Coding for your project according to the designs analyzed in EXP.4 & 5.

**A.2 Prerequisite:**

Requirement Engineering, DFD, CFD

**A.3 Outcome:**

After completing this experiment, you will be able to:

* Design UID using Golden rules
* Implementation of the case study using previous design knowledge

**A.4 Theory:**

**User Interface design:**

While designing user interface, keep the three golden rules in mind.

* Place the user in control
* Reduce the user’s memory load
* Make the interface consistent

The goal of user interface design is to make the user's interaction as simple and efficient as possible, in terms of accomplishing user goals, what is often called as user-centered design.

**Coding:**

The coding depends on individual’s project. Any programming language can be used according to student’s interest.

**Coding:** The objective of the coding phase is to transform the design of a system into code in a high-level language and then to unit test this code. Good software development organizations normally require their programmers to adhere to some well-defined and standard style of coding called coding standards.

Coding Standards- A coding standard gives a uniform appearance to the codes written by different engineers. It enhances code understanding. It encourages good programming practices.

**Coding Standards and Guideline:**

Limiting the use of global data type. Contents of the headers preceding codes for different modules naming conventions for global variables, local variables, and constant identifiers. Error return conventions and exception handling mechanisms Representative Coding Standards. Do not use a coding style that is too clever or too difficult to understand. Avoid obscure side effects. Do not use an identifier for multiple purposes. The code should be well-documented.

**Code Review:**

Code review for a model is carried out after the module is successfully compiled and all the syntax errors have been eliminated. Normally, two types of reviews are carried out on the code of a module.

**Code Walk Through:** To discover the algorithm and logical errors in the code.

**Code Inspection:** The aim of code inspection is to discover some common types of errors caused due to oversight and improper programming.

Software Documentation: Good documents are very useful and serves the following purposes. Good documents enhance understandability and maintainability of a software product. It helps the users in effectively using the system. Helps in effectively handling the manpower turnover problem. Helps the manager in effectively tracking the progress of the project.

Software Documentation classified into the following: Internal documentation: These are provided in the source code itself

External documentation: These are the supporting documents that usually accompany a software product

**Task to be completed:**

1. Design UID for your project
2. You can code using any programming language of your interest
3. GUI(optional), Data retrieval from data base, processing must be implemented

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**PART B**

(PART B: TO BE COMPLETED BY STUDENTS)

**(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case the there is no Black board access available)**

|  |  |
| --- | --- |
| Roll No. B228 | Name: Pranav Kolhe |
| Program: Btech CS | Division: A |
| Batch: A | Date of Experiment: |
| Date of Submission: | Grade: |

**B.1 Tasks given in PART A to be completed here**

*(****Students must write the answers of the task(s) given in the PART A)***

**Config: -**

<?php

$server = "localhost";

$user = "root";

$pass = "";

$database = "hotel\_management";

$conn = mysqli\_connect($server, $user, $pass, $database);

if (!$conn) {

die("<script>alert('Connection Failed.')</script>");

}

?>

**Index: -**

<?php

include 'config.php';

session\_start();

error\_reporting(0);

if (isset($\_SESSION['username'])) {

header("Location: welcome.php");

}

if (isset($\_POST['submit'])) {

$email = $\_POST['email'];

$password = md5($\_POST['password']);

$sql = "SELECT \* FROM users WHERE email='$email' AND password='$password'";

$result = mysqli\_query($conn, $sql);

if ($result->num\_rows > 0) {

$row = mysqli\_fetch\_assoc($result);

$\_SESSION['username'] = $row['username'];

header("Location: welcome.php");

} else {

echo "<script>alert('Email or Password is Wrong. If you have not registered yourself then please do and then try to login again.')</script>";

}

}

?>

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" type="text/css" href="style.css">

<title>Hotel Login</title>

</head>

<body>

<div class="container">

<form action="" method="POST" class="login-email">

<p class="login-text" style="font-size: 2rem; font-weight: 800;">Login</p>

<div class="input-group">

<input type="email" placeholder="Email" name="email" value="<?php echo $email; ?>" required>

</div>

<div class="input-group">

<input type="password" placeholder="Password" name="password" value="<?php echo $\_POST['password']; ?>" required>

</div>

<div class="input-group">

<button name="submit" class="btn"><a href="creditcard.html">Login</a></button>

</div>

<p class="login-register-text">Don't have an account? <a href="register.php">Register Here</a>.</p>

</form>

</div>

</body>

</html>

**Register: -**

<?php

include 'config.php';

error\_reporting(0);

session\_start();

if (isset($\_SESSION['username'])) {

header("Location: index.php");

}

if (isset($\_POST['submit'])) {

$username = $\_POST['username'];

$email = $\_POST['email'];

$password = md5($\_POST['password']);

$cpassword = md5($\_POST['cpassword']);

if ($password == $cpassword) {

$sql = "SELECT \* FROM users WHERE email='$email'";

$result = mysqli\_query($conn, $sql);

if (!$result->num\_rows > 0) {

$sql = "INSERT INTO users (username, email, password)

VALUES ('$username', '$email', '$password')";

$result = mysqli\_query($conn, $sql);

if ($result) {

echo "<script>alert('User Registration Successful!')</script>";

$username = "";

$email = "";

$\_POST['password'] = "";

$\_POST['cpassword'] = "";

} else {

echo "<script>alert('Something Went Wrong.')</script>";

}

} else {

echo "<script>alert('Email Already Exists.')</script>";

}

} else {

echo "<script>alert('Password Not Matched.')</script>";

}

}

?>

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" type="text/css" href="style.css">

<title>Hotel-Registration</title>

</head>

<body>

<div class="container">

<form action="" method="POST" class="login-email">

<p class="login-text" style="font-size: 2rem; font-weight: 800;">Register</p>

<div class="input-group">

<input type="text" placeholder="Username" name="username" value="<?php echo $username; ?>" required>

</div>

<div class="input-group">

<input type="email" placeholder="Email" name="email" value="<?php echo $email; ?>" required>

</div>

<div class="input-group">

<input type="password" placeholder="Password" name="password" value="<?php echo $\_POST['password']; ?>" required>

</div>

<div class="input-group">

<input type="password" placeholder="Confirm Password" name="cpassword" value="<?php echo $\_POST['cpassword']; ?>" required>

</div>

<div class="input-group">

<button name="submit" class="btn"><a href="index.php">Register</a></button>

</div>

<p class="login-register-text">Have an account? <a href="index.php">Login Here</a>.</p>

</form>

</div>

</body>

</html>

**CreditCard: -**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Credit Card Details</title>

<link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">

<link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<link rel="stylesheet" type="text/css" href="styles.css">

<link rel="stylesheet" type="text/css" href="demo.css">

</head>

<body>

<div class="container-fluid">

<div class="creditCardForm">

<div class="heading">

<h1>Confirm Credit Card Details</h1>

</div>

<div class="payment">

<form>

<div class="form-group owner">

<label for="owner">Owner</label>

<input type="text" class="form-control" id="owner">

</div>

<div class="form-group CVV">

<label for="cvv">CVV</label>

<input type="text" class="form-control" id="cvv">

</div>

<div class="form-group" id="card-number-field">

<label for="cardNumber">Card Number</label>

<input type="text" class="form-control" id="cardNumber">

</div>

<div class="form-group" id="expiration-date">

<label>Expiration Date</label>

<select>

<option value="01">January</option>

<option value="02">February </option>

<option value="03">March</option>

<option value="04">April</option>

<option value="05">May</option>

<option value="06">June</option>

<option value="07">July</option>

<option value="08">August</option>

<option value="09">September</option>

<option value="10">October</option>

<option value="11">November</option>

<option value="12">December</option>

</select>

<select>

<option value="16"> 2016</option>

<option value="17"> 2017</option>

<option value="18"> 2018</option>

<option value="19"> 2019</option>

<option value="20"> 2020</option>

<option value="21"> 2021</option>

<option value="22"> 2022</option>

</select>

</div>

<div class="form-group" id="credit\_cards">

<img src="visa.jpg" id="visa">

<img src="mastercard.jpg" id="mastercard">

<img src="amex.jpg" id="amex">

</div>

<div class="form-group" id="pay-now">

<button type="submit" class="btn btn-default" id="confirm-purchase"><a href="booking.html">Confirm</a></button>

</div>

</form>

</div>

</div>

</body>

</html>

**Booking: -**

**Html: -**

<!DOCTYPE html>

<html>

<head lang="en">

<meta charset="UTF-8">

<title>Book a Room</title>

<link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet" type="text/css">

<link href="booing.css" rel="stylesheet" type="text/css">

<script>

function finalCost(){

var roomType = document.getElementById("room\_type").value;

var roomNum = document.getElementById("room\_number").value;

var personNum = document.getElementById("person\_number").value;

var childNum = document.getElementById("child\_number").value;

var resFacilities = document.getElementById("res\_facilities").value;

var total = (parseInt(roomType)\*10) + ((roomNum)\*2) + ((personNum)\*3) + ((childNum)\*2) + ((resFacilities)\*5)

document.getElementById("result").innerHTML = total;

}

</script>

</head>

<body>

<div class="hotel\_reserve\_box">

<h3> Hotel Reservation Form </h3><br>

<form>

<div class="form-group">

<label>Room/Suite Type</label>

<select class="form-control" id="room\_type" onchange="finalCost()">

<option value="0" selected>Select Room/Suite </option>

<option value="1"> Standard </option>

<option value="2"> Deluxe </option>

<option value="3"> Superior Deluxe </option>

<option value="4"> Premier Deluxe </option>

<option value="5"> Executive Suite </option>

<option value="6"> Junior Suite </option>

<option value="7"> Honeymoon Suite </option>

</select>

</div>

<div class="form-group">

<label>Number of room/suite</label>

<select class="form-control" id="room\_number" onchange="finalCost()">

<option value="0"> 0 </option>

<option value="1"> 1 </option>

<option value="2"> 2 </option>

<option value="3"> 3 </option>

<option value="4"> 4 </option>

<option value="5"> 5 </option>

<option value="6"> 6 </option>

<option value="7"> 7 </option>

</select>

</div>

<div class="form-group">

<label>Number of persons</label>

<select class="form-control" id="person\_number" onchange="finalCost()">

<option value="0"> 0 </option>

<option value="1"> 1 </option>

<option value="2"> 2 </option>

<option value="3"> 3 </option>

<option value="4"> 4 </option>

<option value="5"> 5 </option>

<option value="6"> 6 </option>

<option value="7"> 7 </option>

</select>

</div>

<div class="form-group">

<label>Number of children</label>

<select class="form-control" id="child\_number" onchange="finalCost()">

<option value="0"> 0 </option>

<option value="1"> 1 </option>

<option value="2"> 2 </option>

<option value="3"> 3 </option>

<option value="4"> 4 </option>

<option value="5"> 5 </option>

<option value="6"> 6 </option>

<option value="7"> 7 </option>

</select>

</div>

<div class="form-group">

<label>Restaurant facilities?</label>

<select class="form-control" id="res\_facilities" onchange="finalCost()">

<option value="0" selected> Do you want restaurant facilities? </option>

<option value="2"> Yes </option>

<option value="0"> No </option>

</select>

</div><br>

<div class="form-group" id="cin-date">

<label>Check In Date</label>

<select>

<option value="01">January</option>

<option value="02">February </option>

<option value="03">March</option>

<option value="04">April</option>

<option value="05">May</option>

<option value="06">June</option>

<option value="07">July</option>

<option value="08">August</option>

<option value="09">September</option>

<option value="10">October</option>

<option value="11">November</option>

<option value="12">December</option>

</select>

<select>

<option value="16"> 2016</option>

<option value="17"> 2017</option>

<option value="18"> 2018</option>

<option value="19"> 2019</option>

<option value="20"> 2020</option>

<option value="21"> 2021</option>

<option value="22"> 2022</option>

</select>

</div>

<div class="form-group" id="cout-date">

<label>Check Out Date</label>

<select>

<option value="01">January</option>

<option value="02">February </option>

<option value="03">March</option>

<option value="04">April</option>

<option value="05">May</option>

<option value="06">June</option>

<option value="07">July</option>

<option value="08">August</option>

<option value="09">September</option>

<option value="10">October</option>

<option value="11">November</option>

<option value="12">December</option>

</select>

<select>

<option value="16"> 2016</option>

<option value="17"> 2017</option>

<option value="18"> 2018</option>

<option value="19"> 2019</option>

<option value="20"> 2020</option>

<option value="21"> 2021</option>

<option value="22"> 2022</option>

</select>

</div>

<div class="form-group" id="pay-now">

<button type="submit" class="btn btn-default" id="confirm-purchase"><a href="afterbook.html">Book</a></button>

</div>

</form>

</div>

</body>

</html>

**CSS: -**

#output {

background-color: #c5edf3;

color: #463c39;

font-size: 17px;

padding: 30px 30px;

width: 40%;

border: 2px solid #009688;

font-family: sans-serif;

line-height: 1.8;

}

#newPublish {

background-color: #c5edf3;

color: #463c39;

font-size: 17px;

padding: 30px 30px;

width: 40%;

border: 2px solid #009688;

font-family: sans-serif;

line-height: 1.8;

}

.box {

background-color: #f7f7f7;

margin-top: 60px;

margin-bottom: 50px;

padding: 40px 60px;

}

#details\_info {

background-color: #f7f7f7;

color: #463c39;

font-size: 17px;

padding: 30px 30px;

width: 40%;

border: 1px solid #cccccc;

font-family: sans-serif;

line-height: 1.8;

margin-left: 90px;

}

.box3 {

margin-top: 80px;

margin-left: 150px;

margin-right: 150px;

margin-bottom: 60px;

padding: 40px 50px;

background-color: gainsboro;

}

.box11 {

margin-top: 80px;

margin-left: 250px;

margin-right: 250px;

margin-bottom: 60px;

padding: 40px 50px;

background-color: gainsboro;

line-height: 2.5;

}

.web\_design\_box {

margin-top: 30px;

margin-left: 350px;

margin-right: 350px;

margin-bottom: 60px;

padding: 40px 50px;

background-color: #d9edf7;

box-shadow: 3px 5px 10px #318f86;

}

.hotel\_reserve\_box {

margin-top: 30px;

margin-left: 350px;

margin-right: 350px;

margin-bottom: 60px;

padding: 40px 50px;

background-color: #c6badc;

box-shadow: 3px 5px 10px #7527b0;

}

.online\_food\_delivery\_box {

margin-top: 50px;

margin-left: 350px;

margin-right: 350px;

margin-bottom: 60px;

padding: 20px 40px;

background-color: #d4c0b9;

box-shadow: 3px 5px 10px #714c4a;

}

.result\_box {

margin-top: 15%;

margin-left: 350px;

margin-right: 350px;

margin-bottom: 60px;

padding: 20px 40px;

background-color: #d4c0b9;

box-shadow: 3px 5px 10px #8BC34A;

}

.result\_box\_text {

color: #232222;

font-size: 20px;

text-align: center;

padding-top:10px;

}

.result\_box\_text span {

color: #614136;

font-size: 26px;

text-align: center;

}

**Afterbook: -**

Congratulations!

Your booking is Confirmed

<div class="form-group" id="pay-now">

<button type="submit" class="btn btn-default" id="confirm-purchase"><a href="logout.php">Logout</a></button>

</div>

<div class="form-group" id="pay-now">

<button type="submit" class="btn btn-default" id="confirm-purchase"><a href="index.php">Make another booking</a></button>

</div>

**Logout: -**

<?php

session\_start();

session\_destroy();

header("Location: index.php");

?>

**B.2 Observations and Learning:**

*(****Students must write the observations and learning based on their understanding built about the subject matter and inferences drawn)***

Created a project according to the previous practicals.

**B.3 Conclusion:**

*(****Students must write the conclusive statements as per the attainment of individual outcomes listed above and learning/observation noted in section B.2***) \

The experiment was executed successfully.

**B.4 Question of curiosity:**

**1. Which platform is used for your project?**

**2. How many LoC’s for your entire project?**

**3. Which estimation technique is used for your project?**

**4. Explain the user analysis and task analysis for your project?**

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