

## **PROJECT - GUEST HOUSE RESERVATION :**

As a developer, design the following web form for Guest House Reservation at IGNOU. The requirements should include following fields:

First Name, Last Name, Email Address, Government Issued ID, Date of Arrival, Date of Departure, Country, No. of Persons, Any Special Request, Payment Method: Debit , Credit.

Buttons: Submit, Reset and Cancel.

### **NOTE:**

1. All the fields should be validated using JavaScript.
2. Use appropriate input boxes (texts, dropdown, button, checkbox, etc)
3. Submit button should enter all the field's data to the database
4. Show error message of required field is left blank.

## **DETAILS OF THE PROJECT:**

**Languages used:** HTML, CSS, JavaScript, PHP.

**Server Used:** Xampp Apache Server (local host)

**Database Used:** MySql

**Browser:** Google Chrome (Works for all browsers)

**IDE Used:** VS Code

**SOURCE CODE:**

## 1. HTML FILE

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Guest House Reservation Form</title>
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Outfit:wght@400;500;600;700;900&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="style.css"><!--css file link-->
  </head>

  <!--html part-structure of the form -->

  <body>
    <div class="container">
      <h1>Welcome to IGNOU</h1>
      <h4>( Please fill up your details ) </h4>
      <form action="insert.php" method="POST" class="reservation-form">

        <!-- Name: First Name and Last Name-->
        <label for="first-name">First Name:</label>&nbsp;
        <input type="text" class="name" placeholder="First Name"
name="firstName" id="Fname" onkeyup="validatefName()">
        <span id="firstName"></span><br><br>

        <label for="last-name">Last Name: </label>&nbsp;
        <input type="text" class="name" placeholder="Last Name"
name="lastName" id="Lname" onkeyup="validatelName()">
        <span id="last-name"></span><br><br>

        <!-- Email ID-->
        <label for="emailID">Email ID:
</label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
        <input type="email" class="mail" placeholder="Email ID" name="emailid"
id="e-mail" onkeyup="validateEmail()">
        <span id="Email-ID"></span><br><br>
```

[illegible]



```

    background-image:
url('https://images.unsplash.com/uploads/1413259835094dcdeb9d3/6e609595?ixlib=rb-
1.2.1&raw_url=true&q=80&fm=jpg&crop=entropy&cs=tinysrgb&ixid=MnwxMjA3fDB8
MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=872');
    min-height: 100vh;
    display: flex;
    flex-direction: column;
    justify-content: center;
    background-size: cover;
}
.container{
    height: 850px;
    width: 700px;
    margin: 5rem auto;
    background-image: linear-gradient(to right top, #1d3355, #3d6b7f, #6f9797, #adc2b6,
#ebee3);
    box-shadow: 10px 10px 10px hsl(218, 39%, 38%);
    border-radius: 15px;
    justify-content: center;
    align-content: center;
    opacity: 0.9;
}
h1{
    text-align: center;
    color: hsl(216, 72%, 15%) ;
    margin: 30px auto 25px;
    font-family: 'Outfit', sans-serif;
    font-weight: 900 bold;
}
h4{
    text-align: center;
    color: hsl(216, 58%, 20%) ;
    margin: 0px auto 25px;
    font-family: 'Outfit', sans-serif;
    font-weight: 700;
}
.reservation-form{
    margin: 10px;
    margin-left: 30px;
    margin-right: 30px;
    border: 1px solid white;
    padding: 35px ;
    text-align: bold;

```

```

}
form label{
    font-family: 'Outfit', sans-serif;
    font-weight: 700;
    color: #02011d;
}
.name, .name, .mail, .ID-card, .pass, .total-person{
    width: 130px;
    height: 30px;
}
.card{
    height: 20px;
    width: 30px;
}
.button{
    margin-top: 30px;
    margin: 10px;
    justify-content:space-between;
    width: 120px;
    height: 50px;
    color: white;
    background-image: linear-gradient(to left, #181d25, #2c2f57, #3e5491);
    font-size: 16px;
    border: none;
    cursor: pointer;
    border-radius:20px;
    text-align: center;
}
.reservation-form span{
    position: absolute;
    margin: 7px;
    font-size: 14px;
    color: rgb(240, 6, 6);
}
#submit-error{
    color: rgb(240, 6, 6);
}

```

### 3. JAVASCRIPT FILE

```

var firstNameError=document.getElementById('firstName');
var lastNameError=document.getElementById('last-name');

```

```

var emailError=document.getElementById('Email-ID');
var govtIdError=document.getElementById('government-ID');
var dateArrivalError=document.getElementById('arrival');
var dateDepartureError=document.getElementById('departure');
var countryError=document.getElementById('C');
var numberOfPersonError=document.getElementById('TM');
var textError=document.getElementById('message');
var paymentError=document.getElementById('Pay');
var submitError=document.getElementById('submit-error');
// first name
function validatefName(){
    var fN = document.getElementById('Fname').value;
    if(!fN.length > 0){
        firstNameError.innerHTML = '* First Name Required';
        return false;
    }
    firstNameError.innerHTML='✓';
    return true;
}
//last name
function validatelname(){
    var lN = document.getElementById('Lname').value;
    if(!lN.length > 0){
        lastNameError.innerHTML = '* Last Name Required';
        return false;
    }
    lastNameError.innerHTML='✓';
    return true;
}

```

```

}

//email id
function validateEmail(){
    var eID = document.getElementById('e-mail').value;
    if(!eID.length > 0){
        emailError.innerHTML = '* email Required';
        return false;
    }
    emailError.innerHTML='✓';
    return true;
}

//government id
function validateGovtID(){
    var gID = document.getElementById('govt-ID').value;
    if(!gID.length > 0){
        govtIdError.innerHTML = '* Govt ID Required';
        return false;
    }
    govtIdError.innerHTML='✓';
    return true;
}

//date of arrival
function validateArrival(){
    var aD = document.getElementById('arrival-date').value;
    if(aD == ""){
        dateArrivalError.innerHTML = '***';
        return false;
    }

```



```

    dateArrivalError.innerHTML='✓';
    return true;
}
//date of departure
function validateDeparture(){
    var dD = document.getElementById('departure-date').value;
    if(dD == ""){
        dateDepartureError.innerHTML = '***';
        return false;
    }
    dateDepartureError.innerHTML='✓';
    return true;
}
//country name
function validateCountry(){
    var cN = document.getElementById('country').value;
    if(!cN.length > 0){
        countryError.innerHTML = '***';
        return false;
    }
    countryError.innerHTML='✓';
    return true;
}
//no of persons
function validateTotal(){
    var tN = document.getElementById('total-person').value;
    if(tN=='0' || tN==""){
        numberOfPersonError.innerHTML = '***';
    }
}

```

```

        return false;
    }

    numberOfPersonError.innerHTML='✓';

    return true;
}

//text-message
function validateMessage(){
    var message=document.getElementById('text-area').value;
    if(message==""){
        textError.innerHTML = '*text required';
        return false;
    }

    textError.innerHTML='✓';

    return true;
}

//payment status
function validatePay(){
    var payT = document.getElementsByName("payment");
    paymentError.innerHTML='✓';

    return true;
}

//function for form submission: submit
function myFunction(){
    if( !validatefName() || !validatelName() || !validateEmail() || !validateGovtID() ||
    !validateArrival() || !validateDeparture() || !validateCountry() || !validateTotal() ||
    !validateMessage() || !validatePay()){

        alert("One or More fields are left blank. All fields are required. ");

        return false;
    }
}

```

```
    alert(" Submitting your form");  
}
```

#### 4. PHP FILE

```
<?php  
if (isset($_POST['submit'])) { //check submit button  
    if (isset($_POST['firstName']) && isset($_POST['lastName']) &&  
        isset($_POST['emailid']) && isset($_POST['govtid']) &&  
        isset($_POST['govtidnum']) && isset($_POST['arrivaldate']) &&  
        isset($_POST['departuredate']) && isset($_POST['countryname']) &&  
        isset($_POST['people']) && isset($_POST['textarea']) &&  
        isset($_POST['payment'])) { //check input fields  
  
        //variable initalizing  
        $firstName= $_POST['firstName'];  
        $lastName= $_POST['lastName'];  
        $emailid= $_POST['emailid'];  
        $govtid= $_POST['govtid'];  
        $govtidnum= $_POST['govtidnum'];  
        $arrivaldate= $_POST['arrivaldate'];  
        $departuredate= $_POST['departuredate'];  
        $countryname= $_POST['countryname'];  
        $people= $_POST['people'];  
        $textarea= $_POST['textarea'];  
        $payment= $_POST['payment'];  
  
        //check for empty fields
```

```
if(!empty($firstName) || !empty($lastName) ||!empty($emailid) ||!empty($govtid)
||!empty($govtidnum) ||!empty($arrivaldate) ||!empty($departuredate) ||!empty($countryname)
||!empty($people) ||!empty($textarea) ||!empty($payment)){
```

```
//add host, username, password and database names
```

```
$host= "localhost";
```

```
$dbUsername="root";
```

```
$dbPassword="";
```

```
$dbName="guest house";
```

```
//create connection
```

```
$conn= new mysqli($host, $dbUsername, $dbPassword, $dbName);
```

```
//check if connection is not okay show error or go to else part
```

```
if ($conn->connect_error) {
```

```
    die("Connection failed: " . $conn->connect_error);
```

```
}
```

```
else{
```

```
    //sql queries
```

```
    $SELECT= "SELECT emailid FROM ghr WHERE emailid = ? LIMIT 1";
```

```
    $INSERT="INSERT INTO ghr(firstName, lastName, emailid, govtid, govtidnum,
arrivaldate, departuredate, countryname, people, textarea, payment) values (?, ?, ?, ?, ?, ?, ?, ?, ?, ?)
";
```

```
    //prepare statement
```

```
    $stmt=$conn->prepare($SELECT);
```

```
    $stmt->bind_param("s",$emailid); //s here is string, and ? in line:26 replaces'$email'
```

```
    $stmt->execute();
```

```
    $stmt->bind_result($emailid);
```

```
    $stmt->store_result();
```

```
    $stmt->fetch();
```

```
    $rnum=$stmt->num_rows;
```

```

        if($rnum==0){ //check empty table

            $stmt->close();

            $stmt = $conn->prepare($INSERT);

            $stmt->bind_param("ssssssssiss",$firstName, $lastName, $emailid, $govtid,
$govtidnum, $arrivaldate, $departuredate, $countryname, $people, $textarea, $payment);

            if ($stmt->execute()) {

                echo "New record inserted sucessfully.";

            }

            else {

                echo $stmt->error;

                echo "error";

            }

        }

        else {

            echo "Someone already registers using this email."; }

        $stmt->close();

        $conn->close();

    }

}

else {

    echo "All field are required.";

    die();

}

}

}

else {

    echo "Submit button is not set";

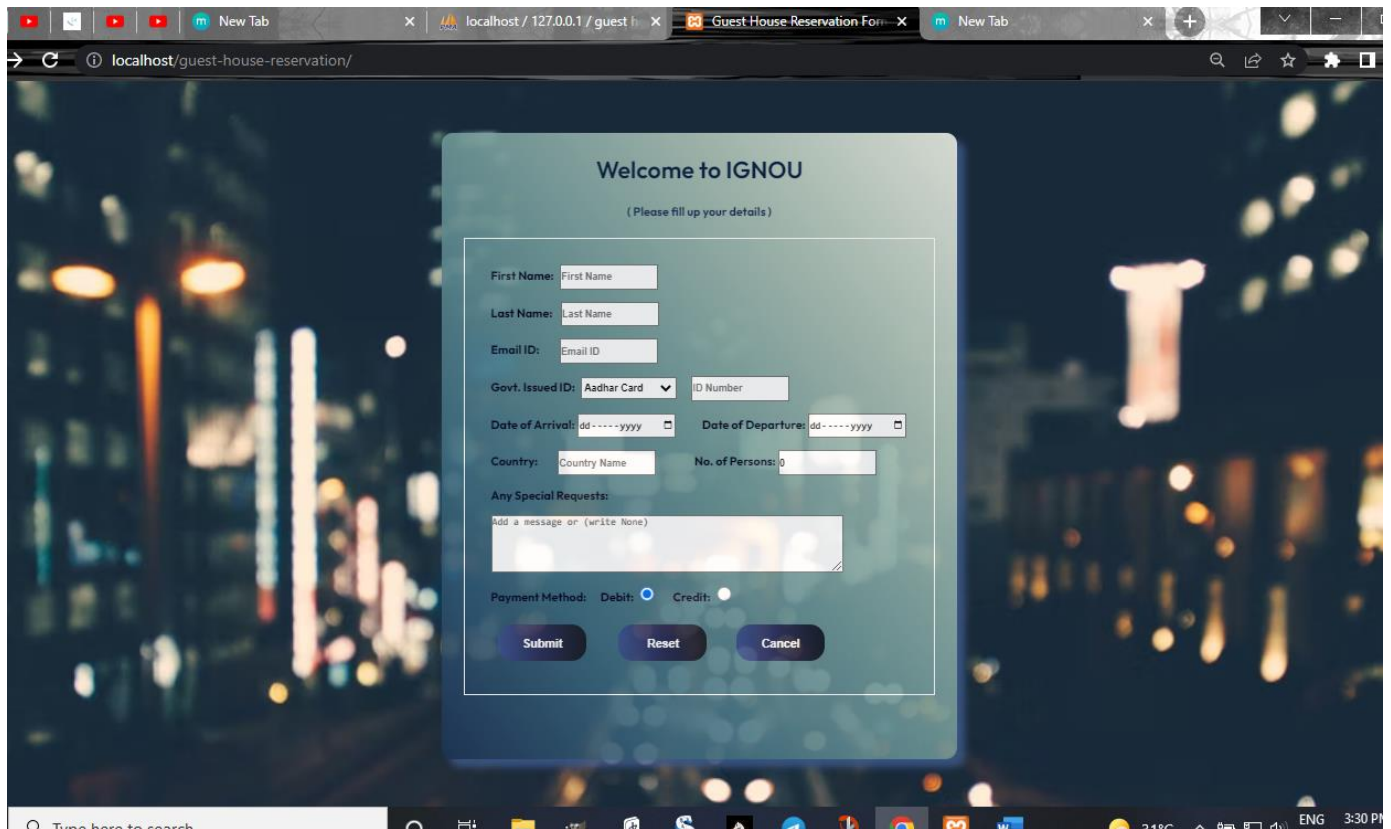
}

?>

```

## Output with Screen Shots:

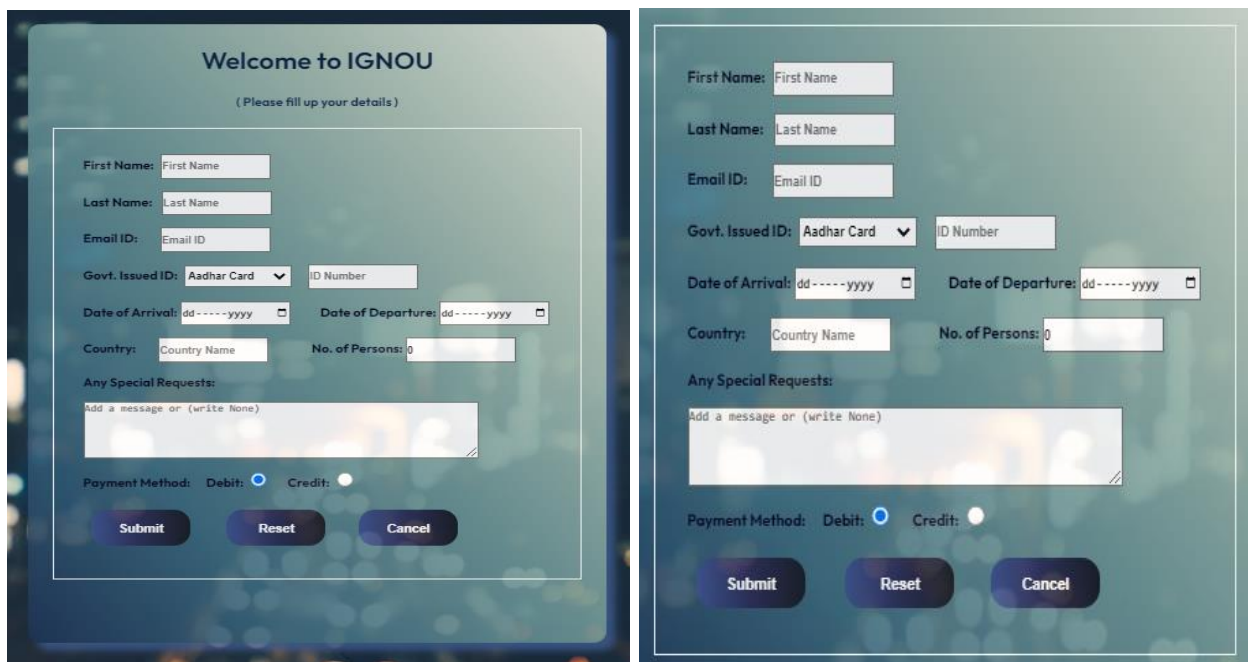
The Final Output Form:



The screenshot shows a web browser window with the URL `localhost/guest-house-reservation/`. The page displays a form titled "Welcome to IGNOU" with the instruction "(Please fill up your details)". The form fields include:

- First Name:
- Last Name:
- Email ID:
- Govt. Issued ID:  (dropdown menu)
- Date of Arrival:  (calendar icon) Date of Departure:  (calendar icon)
- Country:  No. of Persons:
- Any Special Requests:
- Payment Method: ☒ Debit ☐ Credit
- Buttons:

The form in closeup with all the fields given:

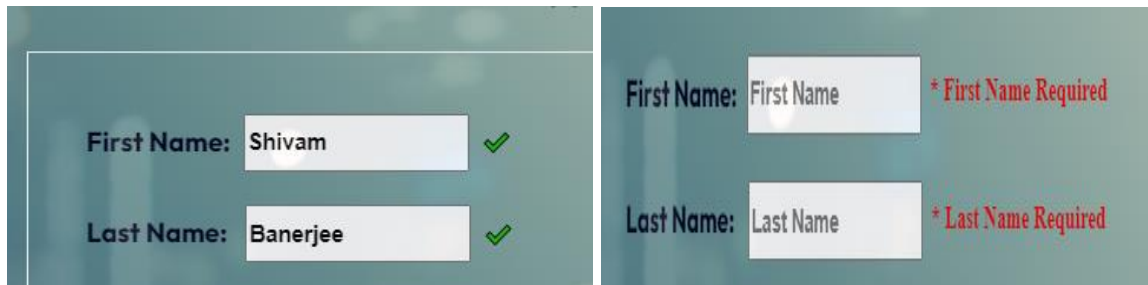


The image shows two side-by-side closeup screenshots of the form. The left screenshot shows the form with the "Debit" payment method selected. The right screenshot shows the form with the "Credit" payment method selected. The form fields are identical to the ones shown in the first screenshot.

**Note: For more clear view of fields, The closeup version of the form is used from now.**

- 1. All the fields should be validated using JavaScript:**  
[ The fields when entered show '✓' and if fields are not entered then "\*\*\*\*" or "**\*text required**" or if incorrectly entered show "hover message"]
- 2. Use Appropriate Input Boxes (Texts, Radio buttons, dropdown menu, buttons, etc.)**

--Name field: first name and Last name Validation:



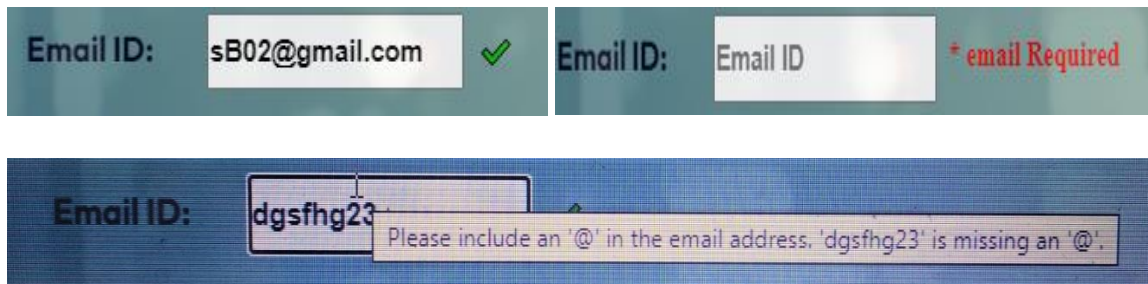
First Name: Shivam ✓

Last Name: Banerjee ✓

First Name: First Name \* First Name Required

Last Name: Last Name \* Last Name Required

--Email Address field validation:



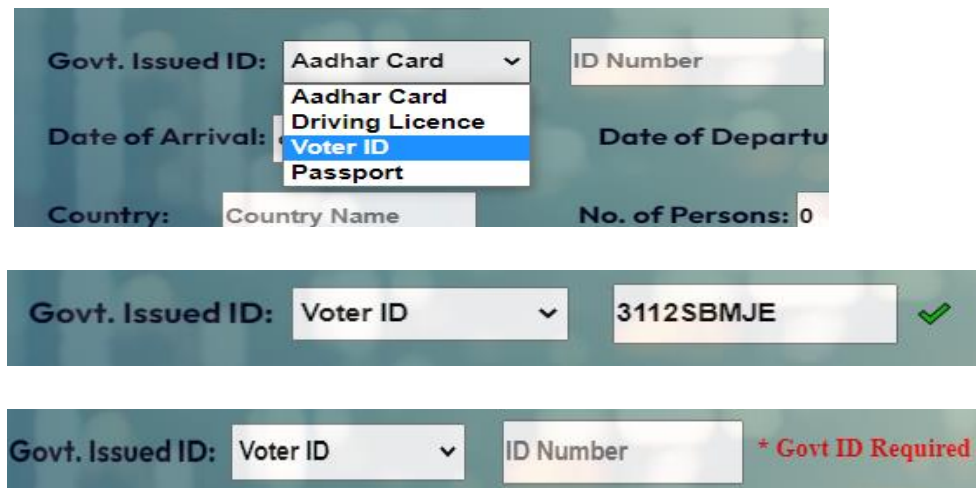
Email ID: sB02@gmail.com ✓

Email ID: Email ID \* email Required

Email ID: dgsfhg23  
Please include an '@' in the email address, 'dgsfhg23' is missing an '@'.

(Last picture taken through phone as you cannot take screen shot while hovering is on.)

--Government Issue ID field validation and dropdown menu field for ID:



Govt. Issued ID: Aadhar Card ▼ ID Number

Date of Arrival: Aadhar Card  
Driving Licence  
Voter ID  
Passport Date of Departu

Country: Country Name No. of Persons: 0

Govt. Issued ID: Voter ID ▼ 3112SBMJE ✓

Govt. Issued ID: Voter ID ▼ ID Number \* Govt ID Required

--Date of Arrival field and Date of Departure field validation:

**Date of Arrival:** 17-May-2022  **Date of Departure:** 16-May-2022

**Date of Arrival:** 17-----yyyy  \*\*\* **Date of Departure:** dd-May-yyyy  \*\*\*

--Country Field and No. of Persons Field validation:

**Country:** India  ✓ **No. of Persons:** 3  ✓

**Country:** Country Name  \*\*\* **No. of Persons:** 0  \*\*\*

--Payment field validation: 'Debit' and 'Credit' are implemented as radio buttons. By default, 'Debit' is selected. You select any one of them.

--Buttons: Submit, Reset and Cancel

**Payment Method:** Debit: ☒ Credit: ☐

**Payment Method:** Debit: ☐ Credit: ☒

**Submit** **Reset** **Cancel**

**Submit** **Reset** **Cancel**

--Reset Button reset the fields and cancel button redirects it to "google.com" page.



3. Show correctly entered validated data and Show error message of required field is left blank.

--1. All fields entered correctly and 2. Fields left blank with error message:

Two screenshots of the IGNOU registration form. The left screenshot shows the form with all fields filled correctly, including First Name, Last Name, Email ID, Govt. Issued ID, Date of Arrival, Date of Departure, Country, No. of Persons, Any Special Requests, and Payment Method. The right screenshot shows the form with some fields left blank, resulting in an error message: "One or More fields are left blank. All fields are required."

--Form Submission after validating:

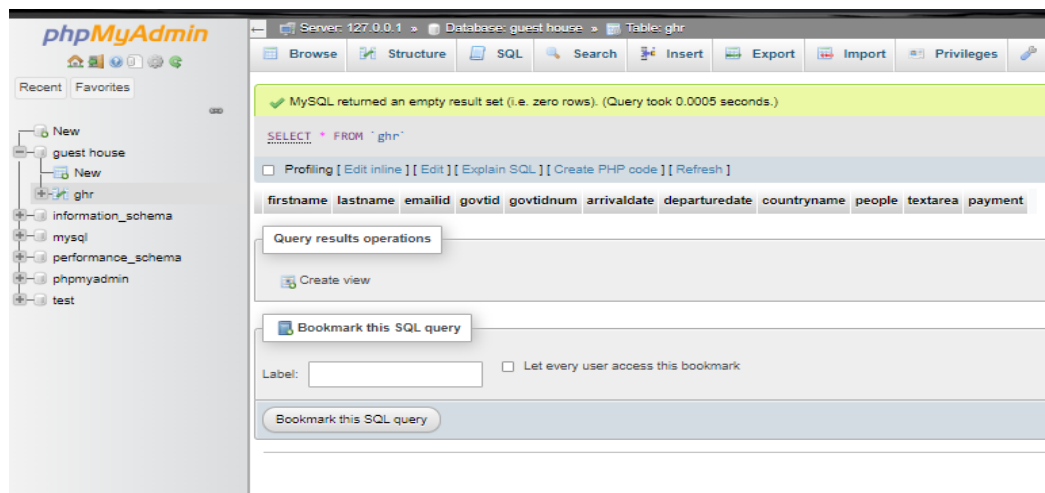
A screenshot of a success message dialog box titled "localhost says" with the text "Submitting your form" and an "OK" button.

--error message for required fields left blank:

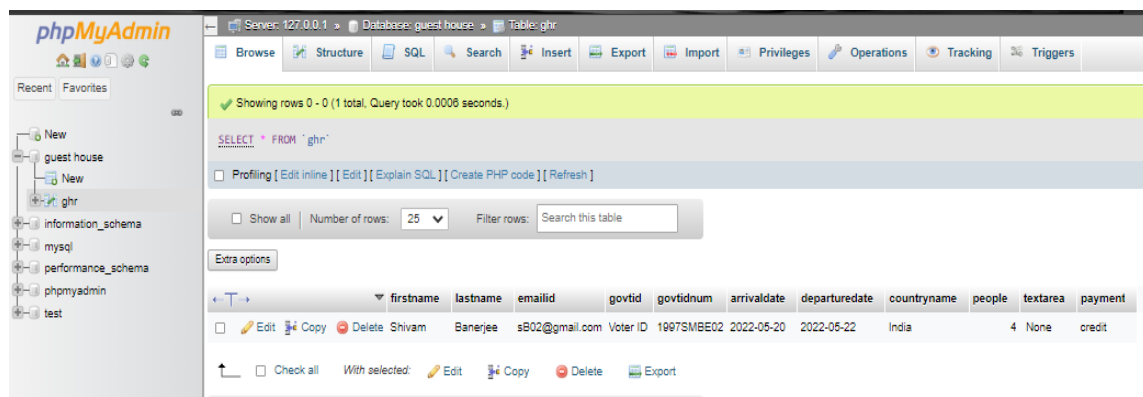
A screenshot of an error message dialog box titled "localhost says" with the text "One or More fields are left blank. All fields are required." and an "OK" button.

#### 4. Submit button should enter all the field's data to the database.

--blank database: ( Using Xampp server, MySql and PHP ):



--Data Inserted:



--Data display up close for clear view:

firstname	lastname	emailid	govtid	govtidnum	arrivaldate	departuredate	countryname	people	textarea	payment
Shivam	Banerjee	sB02@gmail.com	Voter ID	1997SMBE02	2022-05-20	2022-05-22	India	4	None	credit

--More data Inserted and Table view:

firstname	lastname	emailid	govtid	govtidnum	arrivaldate	departuredate	countryname	people	textarea	payment
Chris	Evans	13CE@gmail.com	Passport	31195855	2022-05-18	2022-05-24	USA	2	Luxurious space	debit
Abhishek	Mishra	AM12@gmail.com	Aadhar Card	584841318818	2022-05-19	2022-05-18	Australia	1	lorem ipsum dolor	debit
Shivam	Banerjee	sB02@gmail.com	Voter ID	1997SMBE02	2022-05-20	2022-05-22	India	4	None	credit
Tom	Hiddleston	TH09@gmail.com	Passport	5454543244	2022-05-18	2022-05-20	England	4	nothing	credit