

Practical No. 5(a)

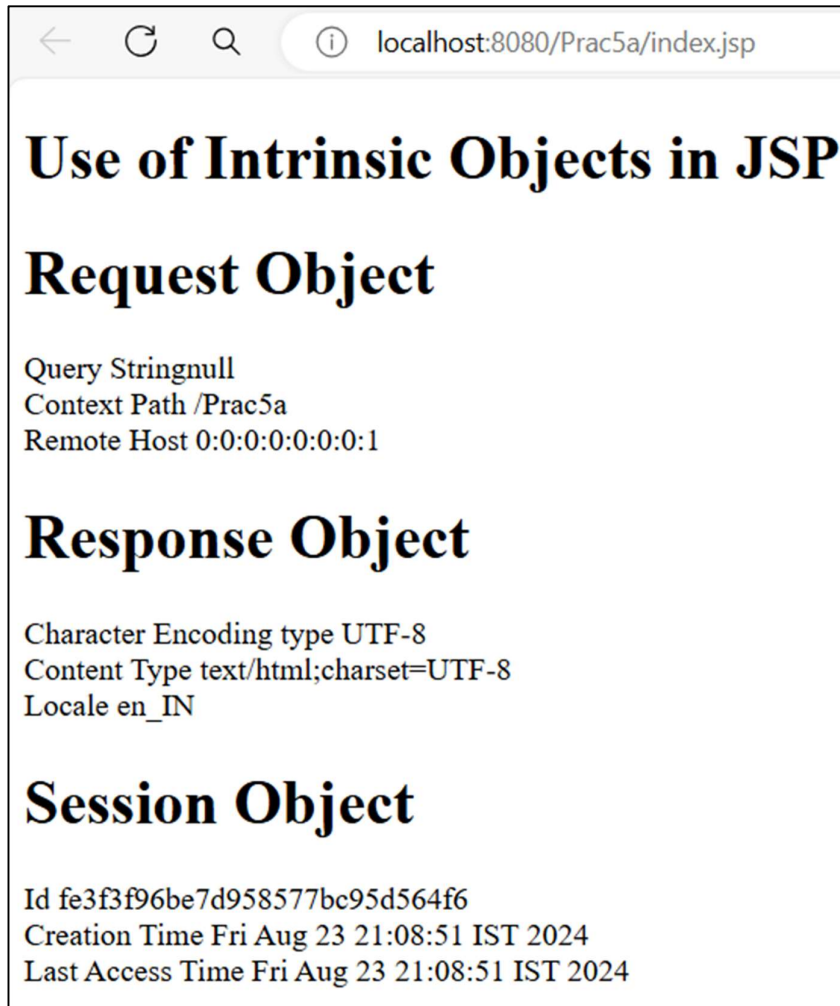
Q. Develop a simple JSP application to display values obtained from the use of intrinsic objects of various types.

index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>

  <body>
    <h1>Use of Intrinsic Objects in JSP</h1>
    <h1>Request Object</h1>
    Query String<%= request.getQueryString() %></br>
    Context Path <%= request.getContextPath() %></br>
    Remote Host <%= request.getRemoteHost() %>
    <h1>Response Object</h1>
    Character Encoding type <%= response.getCharacterEncoding() %></br>
    Content Type <%= response.getContentType() %></br>
    Locale <%= response.getLocale() %></br>
    <h1>Session Object</h1>
    Id <%= session.getId() %></br>
    Creation Time <%= new java.util.Date(session.getCreationTime()) %></br>
    Last Access Time <%= new java.util.Date(session.getLastAccessedTime()) %></br>
  </body>
</html>
```

Output:



Practical No. 5(b)

Q. Develop a simple JSP application to pass values from one page to another with validations. (Name-txt, age-txt, hobbies-checkbox, email-txt, gender-radio button).

index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page-User Interface</title>
  </head>
  <body>
    <form action="Validate.jsp">
      Enter your name: <input type="text" name="name"><br>
      Enter your age: <input type="text" name="age"><br>
      Enter your hobbies <br> <input type="checkbox" name="hob"
      value="Singing">Singing<br>
      <input type="checkbox" name="hob" value="Reading">Reading<br>
      <input type="checkbox" name="hob" value="Reading">Playing Football<br>
      Enter E-mail ID: <input type="text" name="email"><br>
      Select Gender <br><input type="radio" name="gender" value="female">Female<br>
      <input type="radio" name="gender" value="male">Male<br>
      <input type="radio" name="gender" value="other">Other<br>
      <input type="hidden" name="error" value="">
      <input type="submit" value="Submit Form">
    </form>
  </body>
</html>
```

Validate.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>Validation Page</h1>
    <jsp:useBean id="obj" scope="request" class="MyPackage.CheckerBeans">
      <jsp:setProperty name="obj" property="*" />
    </jsp:useBean>
```

```

        <%if(obj.validate())
        {%>
        <jsp:forward page="Successful.jsp"/>
        <%}
        else{%>
        <jsp:include page="index.jsp"/>
        <%}%>
        <%=obj.getError()%>
    </body>
</html>

```

CheckerBeans.java

```

package MyPackage;

public class CheckerBeans
{
    String name, hob, email, gender, error;
    int age;
    public CheckerBeans()
    {
        name="";
        hob="";
        email="";
        gender="";
        error="";
        age=0;
    }
    public void setName(String n) {name=n;}
    public String getName() {return name;}
    public void setAge(int a) {age=a;}
    public int getAge() {return age;}
    public void setHob(String h) {hob=h;}
    public String getHob() {return hob;}
    public void setEmail(String e) {email=e;}
    public String getEmail(){return email;}
    public void setGender(String g) {gender=g;}
    public String getGender() {return gender;}
    public String getError() {return error;}
    public boolean validate()
    {
        boolean res = true;
        if(name.trim().equals(""))
        {
            error+="<br>Enter your name";
            res =false;
        }
        if(age<0||age>99)
        {

```

```

        error+="<br>Age is Invalid";
        res=false;
    }
    String emailregex="^[_A-Za-z0-9-]+(\\.[_A-Za-z0-9-]+)*@[_A-Za-z0-9-9-]+)*((\\.[A-Za-z]{2,})$";
    Boolean b=email.matches(emailregex);
    if(!b)
    {
        error+="<br>Email is Invalid";
        res=false;
    }
    return res;
}
}

```

Successful.jsp

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Forward Page</title>
    </head>
    <body>
        <h1>Data Validated Successfully!</h1>
    </body>
</html>

```

Output:

localhost:8080/Prac5b/

Enter your name:

Enter your age:

Enter your hobbies

☐ Singing

☐ Reading

☐ Playing Football

Enter E-mail ID:

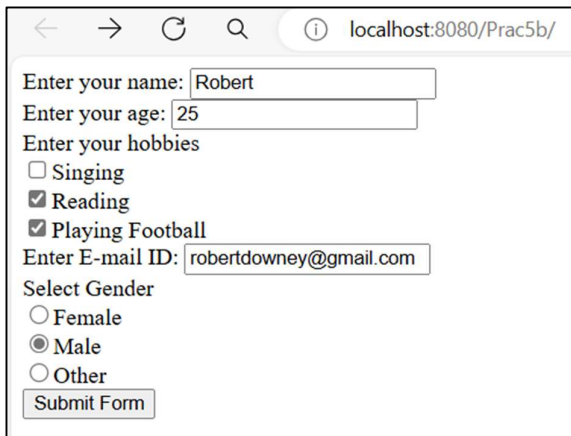
Select Gender

☐ Female

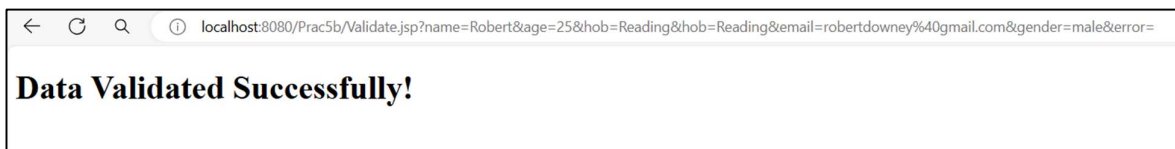
☐ Male

☐ Other

Output after giving right data:

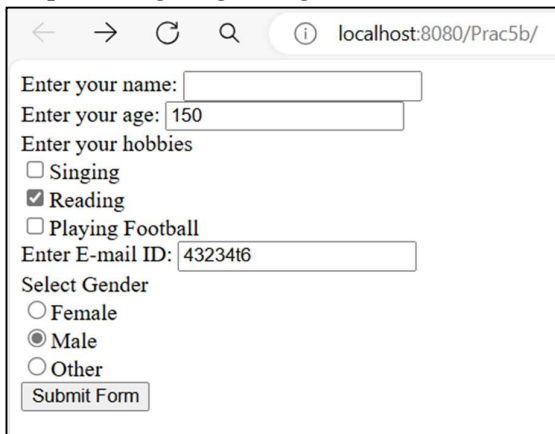


A screenshot of a web browser window showing a registration form. The browser's address bar displays 'localhost:8080/Prac5b/'. The form contains the following fields and values: 'Enter your name:' with 'Robert', 'Enter your age:' with '25', 'Enter your hobbies' with 'Reading' and 'Playing Football' selected, 'Enter E-mail ID:' with 'robertdowney@gmail.com', and 'Select Gender' with 'Male' selected. A 'Submit Form' button is at the bottom.



A screenshot of a web browser window showing a successful validation message. The browser's address bar displays 'localhost:8080/Prac5b/Validate.jsp?name=Robert&age=25&hob=Reading&hob=Reading&email=robertdowney@gmail.com&gender=male&error='. The main content area displays 'Data Validated Successfully!' in bold black text.

Output after giving wrong data:



A screenshot of a web browser window showing a registration form with incorrect data. The browser's address bar displays 'localhost:8080/Prac5b/'. The form contains the following fields and values: 'Enter your name:' (empty), 'Enter your age:' with '150', 'Enter your hobbies' with 'Reading' selected, 'Enter E-mail ID:' with '43234t6', and 'Select Gender' with 'Male' selected. A 'Submit Form' button is at the bottom.



A screenshot of a web browser window showing a validation page. The browser's address bar displays 'localhost:8080/Prac5b/Validate.jsp?name=&age=150&hob=Reading&email=43234t6&gender=male&error='. The main content area displays 'Validation Page' in bold black text. Below the title, the form fields are shown with their current values: 'Enter your name:' (empty), 'Enter your age:' (empty), 'Enter your hobbies' (empty), 'Enter E-mail ID:' (empty), and 'Select Gender' (empty). A 'Submit Form' button is at the bottom. Below the form, the following error messages are displayed: 'Enter your name', 'Age is Invalid', and 'Email is Invalid'.