

1 Problem Statement

Perform validations using JavaScript / JQuery on one of the applications from the given list :

1. Online pizza order application
2. Student information system for training & placement department
3. Leave management application
4. Blogging platform
5. Meeting room booking application
6. Exam cell automation application

2 Learning Objectives

In this assignment, students will :

1. To understand in depth working of JavaScript and JQuery
2. To use JavaScript and JQuery for providing validations, animation and effects to any web application

3 Learning Outcomes

After completion of this assignment, students will be able to :

1. Understand in depth working of JavaScript and JQuery
2. Use JavaScript and JQuery for providing validations, animation and effects to any web application

4 Requirements

Hardware : 64-bit 2.8 GHz processor, 4 GB RAM

Software : 64-bit OS, Web Browser

5 Theory

5.1 JAVASCRIPT

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions

5.2 Advantages

1. Speed.
2. Popularity.
3. Interoperability
4. Server Load
5. Rich interfaces
6. Extended Functionality
7. Versatility
8. Updates

5.3 Disadvantages

1. Client-Side Security
2. Browser Support

5.4 Implementation

```
<!DOCTYPE html>
<html>
  <body>

    <h2>HTML Forms</h2>

    <form id="frm" action="next.html">
      First name:<br>
      <input id="ip1" type="text" name="firstname" placeholder="Name">
      <br>
```

```

Email:<br>
<input id="ip2" type="email" name="mail" placeholder="Email">
<br><br>
<input id="subBtn" type="submit" value="Submit">
<p id="error" style="color:red"></p>
</form>
<script src="https://code.jquery.com/jquery-3.4.1.min.js" integrity "sha256-
CSXorXvZcTkaix6Yvo6HppcZGetbYMGWSFlBw8HfCJo=" crossorigin="anonymous">
</script>
<script>
$("#subBtn").click(function(e){
e.preventDefault();
var flag = 1;
var emailRegex = /^[^<>()\[\]\\\.,;:\s@"]+(\.[^<>()\[\]\\\.,;:\s@"]+)*|((
".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\]|((\[[a-zA-Z\0-9]
+\.)+[a-zA-Z]{2,}))$)/;
$("#error").html("");
if( $("#ip1").val() == "" ){
flag = 0;
$("#error").append("Enter name<br>");
}
if( $("#ip2").val() == "" )
{
flag = 0;
$("#error").append("Enter email");
}
else if( ! emailRegex.test( $("#ip2").val() ) )
{
flag = 0;
$("#error").append("Enter valid email");
}

if( flag == 1 )
{
$("#frm").submit();
}
});
</script>
</body>
</html>

```

6 Output

Submitting without filling inputs:

HTML Forms

First name:

Email:

Enter name

Enter email

Figure 1: Output

Para3

7 Conclusion

Hence, we Understood in depth working of JavaScript and JQuery and use of JavaScript and JQuery for providing validations, animation and effects to any web application.