

F [P C O Æ 'E Q P V G P V

Using JavaScript we can change the content of the different document elements like contents of text box, document title, table contents dynamically. In the following example HTML tables can be created and manipulated dynamically with JavaScript. Each table element contains a rows array and methods for inserting and deleting rows: insertRow() and deleteRow(). Each tr element contains a cells array and methods for inserting and deleting cells: insertCell() and deleteCell(). The following example shows how these objects can be used to dynamically create HTML tables.

The body of the page contains a table with an id of formName. The table contains a single row of headers.

Below the table is a form that allows the user to enter a first and last name. When the "Add Name" button is clicked, the addRow() function is called and passed in the id of the table (tblPeople) and a new array containing the user-entered values.

The addRow() function uses the insertRow() method of the table to add a new row at the end of the table and then loops through the passed-in array, creating and populating one cell for each item. The function also returns the new row. Although the returned value isn't used in this example, it can be useful if you then want to manipulate the new row further.

The above example display the document with empty table. Whenever user press the Add Name button a new row is added to the table.

```
<?xml version = "1.0" encoding = "utf-8"?>
```

```
<!DOCTYPE html PUBLIC "-//w3c//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<!-- dynamic.html -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Manipulating Tables</title>
```

```

<script type="text/javascript">
function addRow(tableId, cells){
var tableElem = document.getElementById(tableId);
var newRow = tableElem.insertRow(tableElem.rows.length);
var newCell;
for (var i = 0; i < cells.length; i++) {
newCell = newRow.insertCell(newRow.cells.length);
newCell.innerHTML = cells[i];
}
return newRow;
}
</script>
</head>

<body>
<table id="tblPeople" border="1">
<tr>
<th>First Name</th>
<th>Middle Name</th>
<th>Last Name</th>
</tr>
</table>
<hr>
<form name="formName">
First Name: <input type="text" name="FirstName">
Middle Name: <input type="text" name="MiddleName">
Last Name: <input type="text" name="LastName">
<br />
<br />
<center><input type="button" value="Add Name"
onclick="addRow('tblPeople',
[this.form.FirstName.value,this.form.MiddleName.value, this.form.LastName.value]
);"> </center>
<hr>

</form>
</body>
</html>

```