

Visitor Generated Image with jQuery

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The web is moving towards interactive content. In this short writing, we will build a simple script that allows site visitors to create images based on their own input. In this example, we enable them to create a personalized cooking recipe. We only provide a list of ingredients. Our site visitors can help us by sharing the image output on social medias. It could be useful if our site sells related products.

Two JavaScript libraries, jquery and html2canvas, are used in this short project.

Download jQuery: <https://jquery.com/download>

Download html2canvas: <https://github.com/niklasvh/html2canvas/releases>

Here is the complete code:

```
<html>
<head>
<style type='text/css'>
#divtemp{
  display: none;
  padding: 10px;
  background-color: #ffa111;
  width: 200;
  font-family: arial;
  color: #ffffff;
}
#divimg{
  display: none;
}
</style>
```

```

<script src='jquery-3.4.1.js'></script>
<script src='html2canvas.js'></script>
</head>
<body>

<p>
<label>Food:<input type='text' id='food'></label>
</p>
<p>
<label>
Ingredients:
<select id='ingredient' multiple='multiple'>
  <option value='Tofu'>Tofu</option>
  <option value='Cipolini Onions'>Cipolini Onions</option>
  <option value='Carrots'>Carrots</option>
  <option value='Baby Turnip'>Baby Turnip</option>
  <option value='Red Grapes'>Red Grapes</option>
  <option value='Braising Jus'>Braising Jus</option>
  <option value='Provolone'>Provolone</option>
  <option value='Avocado'>Avocado</option>
  <option value='Cherry Tomatoes'>Cherry Tomatoes</option>
  <option value='Sourdough Roll'>Sourdough Roll</option>
  <option value='Shoestring Fries'>Shoestring Fries</option>
  <option value='Marinated Eggplant'>Marinated Eggplant</option>
  <option value='Zucchini'>Zucchini</option>
  <option value='Portobello Mushroom'>Portobello Mushroom</option>
  <option value='Balsamic Vinaigrette'>Balsamic Vinaigrette</option>
  <option value='Onion'>Onion</option>
  <option value='Multi Grain Roll'>Multi Grain Roll</option>
  <option value='Goat Cheese'>Goat Cheese</option>
  <option value='Whole Chiles'>Whole Chiles</option>
  <option value='Pepperjack Cheese'>Pepperjack Cheese</option>
  <option value='Sliced Avocado'>Sliced Avocado</option>
  <option value='Coconut Milk'>Coconut Milk</option>
  <option value='Vegetable Broth'>Vegetable Broth</option>
  <option value='Mushrooms'>Mushrooms</option>
  <option value='Seasonal Vegetables'>Seasonal Vegetables</option>
  <option value='Chinese Mushrooms'>Chinese Mushrooms</option>
  <option value='Chili'>Chili</option>
</select>
</label>
</p>

<p>
<input id='btnshot' type='button' value='Create'>
</p>

<div id='divtemp'>
</div>

<div id='divimg'>
</div>

<script>
var imgcontent;
$(document).ready(function(){
  $('#btnshot').on('click',function(){
    $('#divtemp').css('display','block');

    var val1 = $('#food').val();
    var val2 = $('#ingredient').val();

    imgcontent = '<div align=\'center\'><b\'>'+val1+'</b\'></div\'><br\'>';
    imgcontent += '<div\'>';
    for(var i=0;i<val2.length;i++){
      imgcontent += val2[i]+'</b\'><br\'>';
    }

    imgcontent += '</div\'><br\'>';
    imgcontent += '<div align=\'center\'>www.liberpaper.com</div\'>';
  });
});

```

```

    $('#divtemp').html(imgcontent);
    $('#divimg').css('display', 'block');

    html2canvas(document.querySelector('#divtemp')).then(canvas => {
        $('#divimg').html(canvas);
    });

    $('#divtemp').css('display', 'none');
  });
});
</script>

</body>
</html>

```

Explanation:

The input field below is where the visitor can enter the food name or name of the cooking recipe.

```
<input type='text' id='food'>
```

The *select* element defines a list of ingredients. The attribute *multiple* allows the visitor to select multiple ingredients.

```

<select id='ingredient' multiple='multiple'>
  <option value='Tofu'>Tofu</option>
  <option value='Cipolinni Onions'>Cipolinni Onions</option>
  ...
  ...
  ...
  <option value='Chinese Mushrooms'>Chinese Mushrooms</option>
  <option value='Chili'>Chili</option>
</select>

```

Two *div* elements are used for image creation with ids *divtemp* and *divimg*. Both are initially hidden. When the button is clicked, the output, which is in HTML tags, is first inserted into the *divtemp*. The library *html2canvas* will then turn the tags into an image. The image is then inserted into the *divimg*.

The two lines below fetch the visitor input. The values are added to the variable *imgcontent*.

```

var val1 = $('#food').val();
var val2 = $('#ingredient').val();

```

As mentioned above, the output is first inserted into the *divtemp*.

```

$('#divtemp').html(imgcontent);
var val2 = $('#ingredient').val();

```

The block of code below deals with the image creation process. The content of the *divtemp* is moved to the *divimg* in the form of image.

```

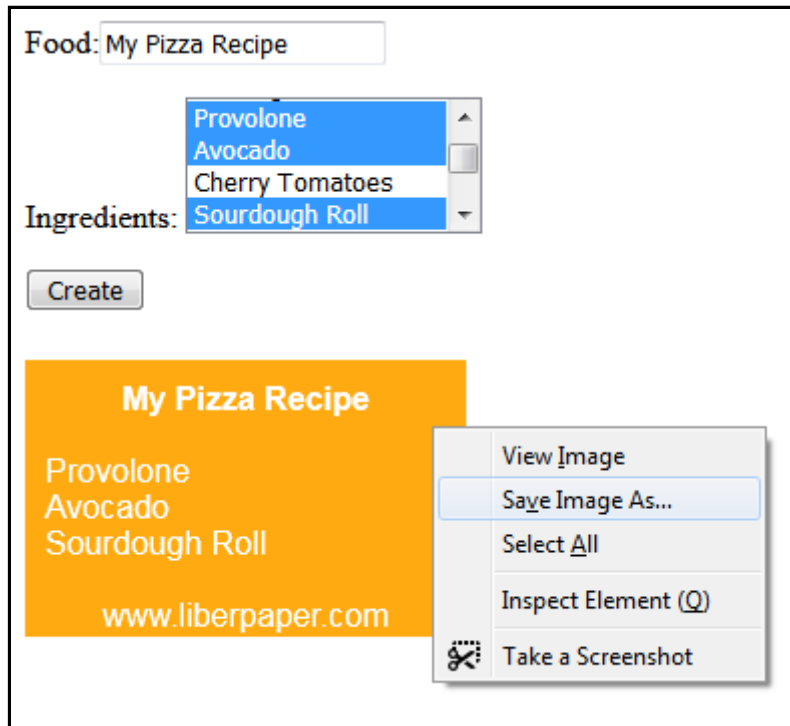
html2canvas(document.querySelector('#divtemp')).then(canvas => {
    $('#divimg').html(canvas);
});

```

The element *divtemp* is then hidden again.

```
$('#divtemp').css('display', 'none');
```

Here is the output:



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