

### UNIVERSITI MALAYSIA TERENGGANU

### **CSM3103 – FRONT-END PROGRAMMING**

# BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

### **LAB 5**

### **SEMESTER II 2023/2024**

Prepared for:

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Prepared by:

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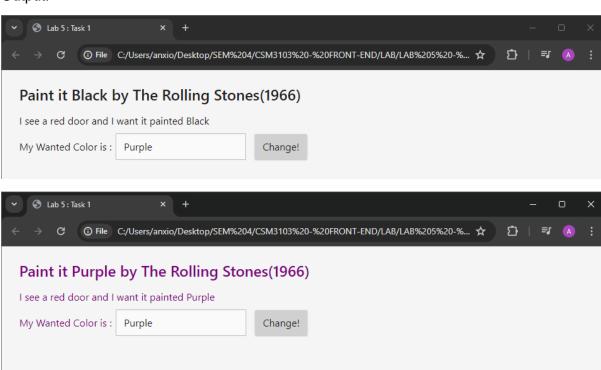
(S66355)

Link Github:

https://github.com/arifhaikal2001/CSM3103-LAB-5.git

```
<html>
 <head>
  <title>Lab 5 : Task 1</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  k rel="stylesheet" href=
   "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.css">
  <style>
   body { margin: 20px; }
   #color change { border: 1px solid; }
   .cow color { font-weight: bold; }
  </style>
  <script>
  $(document).ready(function() {
   var button = $('#button_change');
    $(button).click(function(){
      var input color = $('#input color');
      var input_value = $(input_color).val();
      var element = $('.door color');
      $(element).html(input value);
      $('body').css('color', input value);
   });
  });
  </script>
 </head>
 <body>
  <h2> Paint it <span class="door_color">Black</span> by The Rolling
Stones(1966)</h2>
  I see a red door and I want it painted <span class="door color">Black</span>
  My Wanted Color is :
   <input id="input color" value="Purple"></input>
   <but><br/><br/><br/>d="button change"></br>
    Change!
   </button>
```

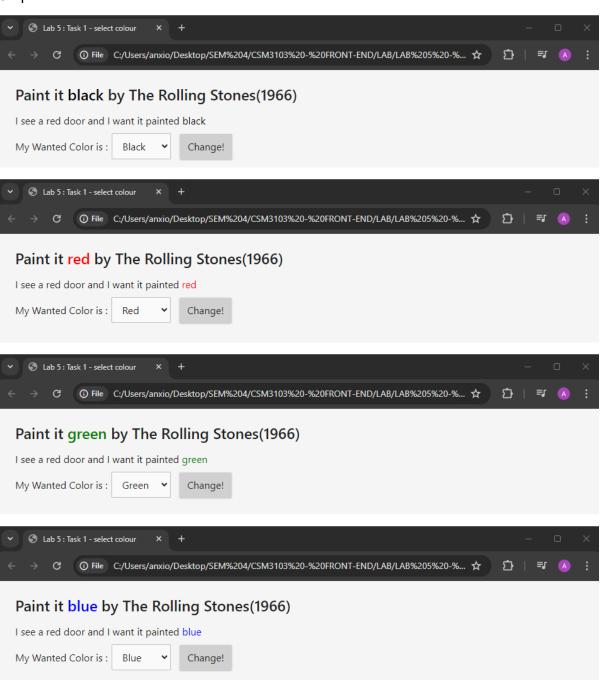
```
</body>
</html>
```



```
<html>
 <head>
  <title>Lab 5 : Task 1 - select colour</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <link rel="stylesheet" href=</pre>
   "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.css">
  <style>
   body { margin: 20px; }
   #color change { border: 1px solid; }
   .cow color { font-weight: bold; }
  </style>
  <script>
  $(document).ready(function() {
    $('#button change').click(function(){
    var selectedColor = $('#select color').val();
    $('.door color').html(selectedColor);
    $('.door color').css('color', selectedColor);
   });
  });
  </script>
 </head>
 <body>
  <h2> Paint it <span class="door color">Black</span> by The Rolling
Stones(1966)</h2>
  I see a red door and I want it painted <span class="door color">Black</span>
  My Wanted Color is :
     <select id = "select color">
       <option value ="black">Black</option>
       <option value ="red">Red</option>
       <option value ="green">Green</option>
       <option value ="blue">Blue</option>
       <option value ="purple">Purple</option>
    </select>
   <but><br/><br/><br/>d="button change"></br>
    Change!
```

```
</button>

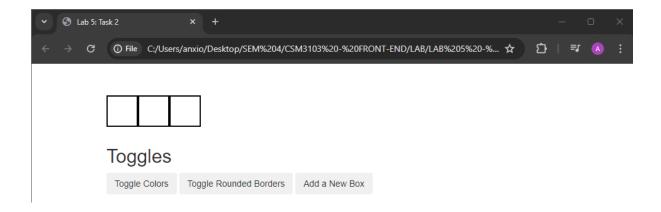
</body>
</html>
```



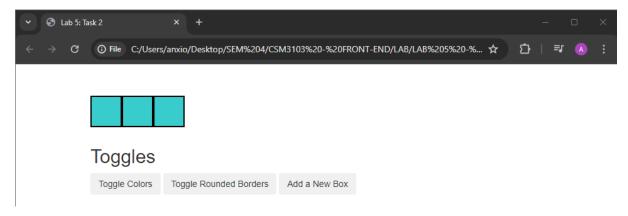


```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 2</title>
  <meta charset="utf-8">
  k rel="stylesheet" href=
   "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
   #boxes { margin-top: 50px; float: left; width: 100%; }
   #toggles { float: left; width: 100%; margin-top: 10px; }
   #info { float: left; margin-top: 5px; }
   .box { width: 50px; height: 50px; float: left; }
   .outlined { border: 2px solid black; }
   .round-edge { border-radius: 15px; }
   .teal { background-color: teal; }
  </style>
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6lbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script>
  var colorTeal = "rgb(57, 204, 204)";
  $(document).ready(function(){
   var colorTeal = "rgb(57, 204, 204)";
   var originalBackgroundColor = "";
   $('#button toggle colors').click(function(){
    // Check the background color of the first box to determine the current state
     var box1 = \$('\#box1');
     if (originalBackgroundColor === "") {
       // Save the original background color if it hasn't been saved yet
       originalBackgroundColor = $(box1).css('background-color');
     // Toggle background color of all boxes
     $('.box').each(function(){
       if ($(this).css('background-color') === colorTeal) {
          $(this).css('background-color', originalBackgroundColor);
       } else {
          $(this).css('background-color', colorTeal);
    });
  });
  $('#button toggle roundedges').click(function(){
```

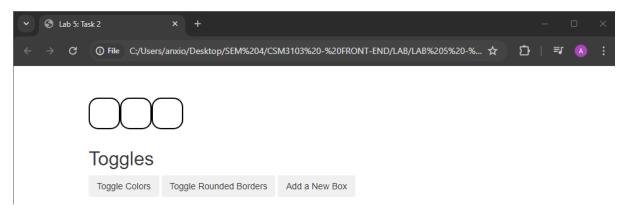
```
$(".box").toggleClass('round-edge');
  });
  $('#button add box').click(function(){
     // Create a new box and append it to the boxes container
     var newBox = $('<div class="box outlined"></div>');
     $('#boxes').append(newBox);
  });
});
  var new box = document.createElement('div');
  var existingBoxes = $(".box").length;
  var nextBoxId = existingBoxes+1;
  $(new box).attr("id","box"+nextBoxId);
  $(new box).addClass("box");
  $(new box).addClass("outlined");
  $("#boxes").append(new box);
  </script>
 </head>
 <body>
  <div class="container">
   <div id="boxes">
     <div id="box1" class="box outlined"></div>
     <div id="box2" class="box outlined"></div>
     <div id="box3" class="box outlined"></div>
    </div>
   <div id="toggles">
     <h2>Toggles</h2>
     <button class="btn" id="button toggle colors"</pre>
      >Toggle Colors</button>
     <button class="btn" id="button toggle roundedges"</pre>
      >Toggle Rounded Borders</button>
     <button class="btn" id="button add box"</pre>
      >Add a New Box</button>
    </div>
  </div>
 </body>
</html>
```



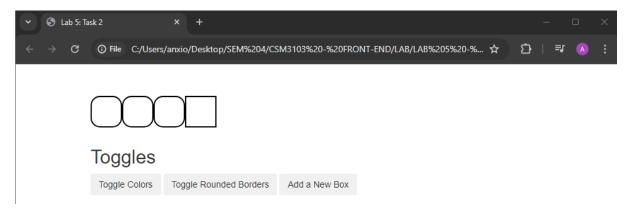
# Toggle colour



# Toggle Rounded Borders

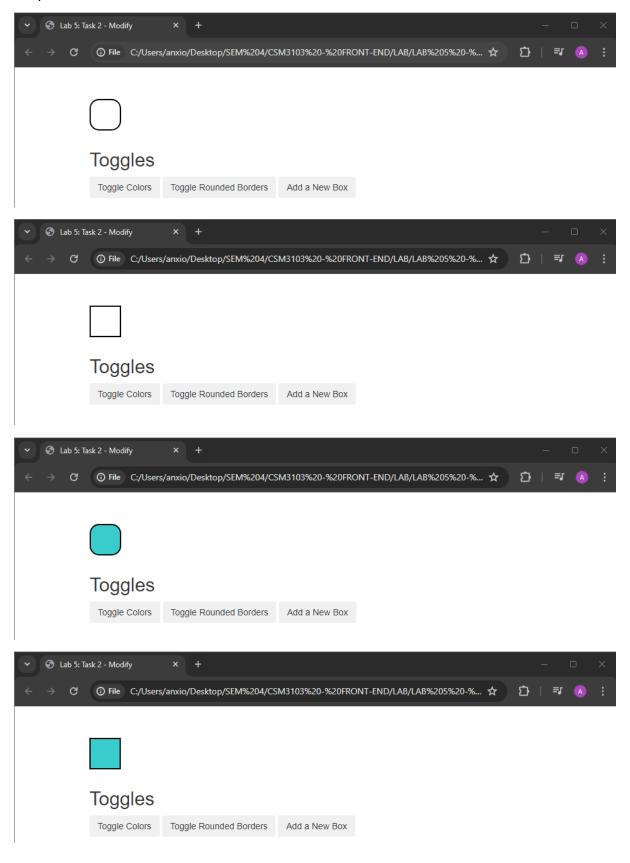


# Add a New Box



```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 2 - Modify</title>
  <meta charset="utf-8">
  k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
   #boxes { margin-top: 50px; float: left; width: 100%; }
   #toggles { float: left; width: 100%; margin-top: 10px; }
   #info { float: left; margin-top: 5px; }
   .box { width: 50px; height: 50px; float: left; }
   .outlined { border: 2px solid black; }
    .round-edge { border-radius: 15px; }
   .teal { background-color: teal; }
  <script src="https://code.jquery.com/jquery-3.1.1.js" integrity="sha256-</pre>
16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
crossorigin="anonymous"></script>
  <script>
    $(document).ready(function(){
      var colorTeal = "rgb(57, 204, 204)";
      var originalBackgroundColor = "";
      $('#button toggle colors').click(function(){
         // Check the background color of the first box to determine the current state
         var box1 = \$('\#box1');
         if (originalBackgroundColor === "") {
           // Save the original background color if it hasn't been saved yet
           originalBackgroundColor = $(box1).css('background-color');
         }
         // Toggle background color of all boxes
         $('.box').each(function(){
           if ($(this).css('background-color') === colorTeal) {
              $(this).css('background-color', originalBackgroundColor);
           } else {
              $(this).css('background-color', colorTeal);
        });
      });
      $('#button toggle roundedges').click(function(){
         $(".box").toggleClass('round-edge');
      });
      $('#button add box').click(function(){
         // Hide all existing boxes
```

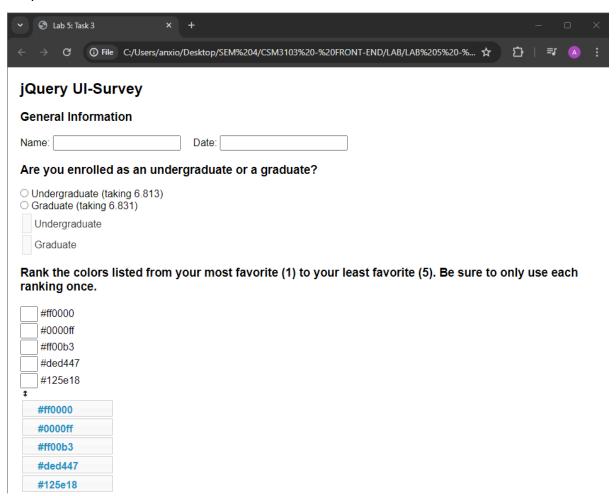
```
$(".box").hide();
        // Randomly select one box to show
        var randomBoxIndex = Math.floor(Math.random() * $(".box").length);
        $(".box").eq(randomBoxIndex).show();
     });
   });
  </script>
 </head>
 <body>
  <div class="container">
   <div id="boxes">
    <div id="box1" class="box outlined"></div>
    <div id="box2" class="box outlined"></div>
    <div id="box3" class="box outlined"></div>
   </div>
   <div id="toggles">
    <h2>Toggles</h2>
    <button class="btn" id="button_toggle_colors">Toggle Colors</button>
    <button class="btn" id="button toggle roundedges">Toggle Rounded
Borders</button>
    <button class="btn" id="button add box">Add a New Box</button>
   </div>
  </div>
 </body>
</html>
```



```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 3</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script
   src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
   integrity="sha256-T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
   crossorigin="anonymous"></script>
  <link rel="stylesheet" href=</pre>
   "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
  k rel="stylesheet" href=
   "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
  <style>
   body {
    margin: 20px;
   #name input {
    float: left;
    margin-bottom: 20px;
    margin-right: 20px;
   #date input {
    float: left:
    margin-bottom: 20px;
   #year input {
    clear:both;
   .rank color {
    width: 20px;
    margin-top: 2px;
   #selectable .ui-selecting{
    background: #FECA40;
   #selectable .ui-selecting{
    background: #F39814;
    color: white;
   #selectable li:before{
    content: "\2713";
    color:transparent;
```

```
#selectable li.ui-selecting:before{
     content: "\2713";
     color:black;
    #selectable li.ui-selected:before{
     content: "\2713";
     color:white;
    #selectable{
     list-style-type: none;
     margin: 0;
     padding: 0;
     width: 3px;
     cursor: pointer;
    #selectable li{
     margin: 3px;
     padding: 0.4em;
     font-size: 1.0em;
     height: 16px;
    #sortable{
     list-style-type: none;
     margin: 0;
     padding: 0;
     width: 150px;
    #sortable li{
     margin: 0 3px 3px 3px;
     padding: 0.4em;
     padding-left: 1.5em;
     font-size: 1.0em;
     height: 12px;
  </style>
  <script>
  $(document).ready(function() {
$('#date').datepicker();
$("#selectable").selectable();
$("#sortable").sortable();
$("#sortable").disableSelection();
$(document).tooltip({
 item: '[title], [class]',
 position: {my: "left center", at: "right center"},
 content: function(){
  var element = $(this);
  if(element.is('[title]')){
    return element.attr('title');
```

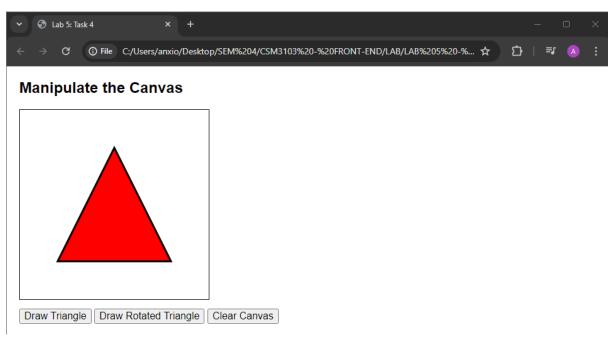
```
if (element.is('[class]')){
    console.log('class', element);
    if (element.hasClass('ui-state-default')){
     var text = element.text();
     return '<div class="color switch" style="background:' + text +'"></div>'
})
});
   </script>
 </head>
 <body>
   <h2>jQuery UI-Survey</h2>
   <h3>General Information</h3>
   <div id="name input">
    <label for="name">Name:</label>
    <input type="text" id="name">
   </div>
   <div id="date input">
    <label for="date">Date:</label>
    <input type="text" id="date">
   </div>
   <div id="year input">
      <h3>Are you enrolled as an undergraduate or a graduate?</h3>
      <input type="radio" name="enroll year" id="ugrad" value="ugrad">
      <a href="label-state"><label-state="label-state"><label-state="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a> <a href="label-state"></a></a></a> <a href="label-state"></a></a></a> <a href="label-state"></a></a></a></a></a>
     <input type="radio" name="enroll year" id="grad" value="grad">
     <label for="grad">Graduate (taking 6.831)</label>
     <!-- Step 2: Your HTML here -->
     d="selectable">
       Undergraduate
       class="ui-widget-content" title="taking 6.813">Graduate
      </div>
   <div id="color input">
    <!-- Comment out instruction when you finish step 3 -->
     <h3>Rank the colors listed from your most favorite (1)
    to your least favorite (5). Be sure to only use each ranking once.</h3>
    <!-- Comment this part of the form out after step 3 -->
    <input type="text" class="rank color" id="red">
    <label for="red">#ff0000</label><br/>
    <input type="text" class="rank color" id="blue">
    <label for="blue">#0000ff</label><br/>
    <input type="text" class="rank color" id="hot pink">
    <label for="hot_pink">#ff00b3</label><br/>
    <input type="text" class="rank color" id="mustard">
    <label for="mustard">#ded447</label><br/>
    <input type="text" class="rank color" id="dark green">
    <label for="dark green">#125e18</label><br/>
```



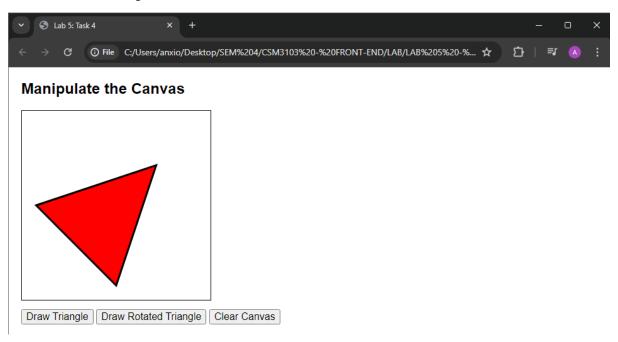
```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 4</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script
   src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
   integrity="sha256-T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
   crossorigin="anonymous"></script>
  <link rel="stylesheet" href=</pre>
   "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
  k rel="stylesheet" href=
   "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
   <style>
     body { margin: 20px; }
     #container { display: block; }
     #draw buttons { float: left; width: 100%; margin-top: 10px; }
   </style>
  <script>
  $(document).ready(function() {
   /* Step 1: Your code goes here */
   var canvas = document.getElementById("myCanvas");
   var ctxt = canvas.getContext('2d');
   /* Step 2: Your js code goes here */
   $("#button draw triangle").click(function() {
     ctxt.fillStyle = '#f00';
     ctxt.strokeStyle = '#000':
     ctxt.lineWidth = 3;
     ctxt.beginPath();
     ctxt.moveTo(60, 240);
     ctxt.lineTo(240, 240);
     ctxt.lineTo(150, 60);
     ctxt.closePath();
     ctxt.fill();
     ctxt.stroke();
   });
   /* Step 3: Your js code goes here */
   $("#button draw rotated triangle").click(function() {
     ctxt.translate(canvas.width / 2, canvas.height / 2);
     ctxt.rotate(Math.PI / 4);
```

```
ctxt.beginPath();
    ctxt.moveTo(-90, 90);
    ctxt.lineTo(90, 90);
    ctxt.lineTo(0, -90);
    ctxt.closePath();
    ctxt.fill();
    ctxt.stroke();
   /* Step 4: Your js code goes here */
   $("#button_clear_canvas").click(function() {
    /* Clear canvas and reset transformations */
    ctxt.clearRect(0, 0, canvas.width, canvas.height);
    ctxt.setTransform(1, 0, 0, 1, 0, 0); // Reset transformation matrix
   });
  });
  </script>
 </head>
 <body>
  <h2>Manipulate the Canvas</h2>
  <canvas id="myCanvas"
   width="300" height="300"
   style="border:1px solid #000000;"></canvas>
  <div id="draw buttons">
   <button id="button draw triangle">Draw Triangle/button>
   <button id="button draw rotated triangle">Draw Rotated Triangle</button>
   <button id="button clear canvas">Clear Canvas/button>
  </div>
 </body>
</html>
```

# **Draw Triangle**



# **Draw Rotated Triangle**



# Clear Canvas

