# L1 **Bootstrap Introduction**

## Bootstrap Grid System

### 1\_grid.html

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| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title></title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style type="text/css">  .pink {  background: pink;  border: 1px solid purple;  }  .orange {  background: orange;  border: 1px dashed red;  height: 50px;  }  </style>  </head>  <body>  <div class="container">  <div class="row">  <div class="col-8 pink">COL  <div class="row">  <div class="col-6 orange">COL</div>  <div class="col-6 orange">COL</div>  </div>  </div>  <div class="col-4 pink">COL</div>  </div>  </div>  <br></br>  <div class="row">  <div class="col-md-4 pink">COL</div>  <!-- <div class="col-sm-6 col-md-4 col-lg-2 pink">COL</div>  <div class="col-sm-6 col-md-4 col-lg-2 pink">COL</div>  <div class="col-sm-6 col-md-4 col-lg-2 pink">COL</div>  <div class="col-sm-6 col-md-4 col-lg-2 pink">COL</div>  <div class="col-sm-6 col-md-4 col-lg-2 pink">COL</div>-->  </div>  </body>  </html> |

#### 1\_grid.html – RESULT

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## Bootstrap Typography and Spacing Utilities

### 2\_text\_spacing.html

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| Who We AreThis is information panelResponsive Design Never in all their history have men been able truly to conceive of the world as one a single sphere |

#### 2\_text\_spacing.html – RESULT

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## Bootstrap Tables

### 3\_tables.html

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <body>    <!-- Table 1 -->  <table class="table table-striped">  <thead class="thead-dark">  <tr>  <th scope="col">Month</th>  <th scope="col">Number of Sales</th>  <th scope="col">Amount</th>  </tr>  </thead>  <tbody>  <tr>  <th scope="row"><b>Jan</b></th>  <td>105</td>  <td>$15,000.00</td>  </tr>  <tr>  <th scope="row"><b>Feb</b></th>  <td>95</td>  <td>$12,000.00</td>  </tr>  <tr>  <th scope="row"><b>Mar</b></th>  <td>150</td>  <td>$20,000.00</td>  </tr>  <tr>  <th scope="row"><b>Apr</b></th>  <td>150</td>  <td>$30,000.00</td>  </tr>  <tr>  <th scope="row"><b>May</b></th>  <td>80</td>  <td>$15,000.00</td>  </tr>  <tr>  <th scope="row"><b>Jan</b></th>  <td>110</td>  <td>$22,000.00</td>  </tr>  </tbody>  </table>    <!-- Table 2 -->  <table class="table table-hover">  <thead class="thead-light">  <tr>  <th scope="col">Month</th>  <th scope="col">Number of Sales</th>  <th scope="col">Amount</th>  </tr>  </thead>  <tbody>  <tr>  <th scope="row"><b>Jan</b></th>  <td>105</td>  <td>$15,000.00</td>  </tr>  <tr>  <th scope="row"><b>Feb</b></th>  <td>95</td>  <td>$12,000.00</td>  </tr>  <tr>  <th scope="row"><b>Mar</b></th>  <td>150</td>  <td>$20,000.00</td>  </tr>  <tr>  <th scope="row"><b>Apr</b></th>  <td>150</td>  <td>$30,000.00</td>  </tr>  <tr>  <th scope="row"><b>May</b></th>  <td>80</td>  <td>$15,000.00</td>  </tr>  <tr>  <th scope="row"><b>Jan</b></th>  <td>110</td>  <td>$22,000.00</td>  </tr>  </tbody>  </table>  </body>  </html> |

#### 3\_tables.html– RESULT 1

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#### 3\_tables.html– RESULT 2

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## Bootstrap Cards and Images

### 4\_cards\_images.html

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <body>  <div class="card mb-3" style="max-width: 18rem;">  <div class="card-header bg-warning text-white">Old Books</div>  <div class="card-body text-center">  <img src="images/books.png" width="200" height="200" />  </div>  <div class="card-footer bg-dark text-primary"><p>Books, books, books</p></div>  </div>  </body>  </html> |

#### 4\_cards\_images.html– RESULT

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## PS (Webpages Completion)

### about.html

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style type="text/css">  .box-circle-solid{  background-color:#35CBDF;  border-radius: 50%;  color: #fff;  font-size: 22px;  height: 55px;  line-height: 55px;  text-align: center;  width: 55px;  }  </style>  </head>  <body>  <div class="text-center">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Who We Are</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>This is information panel</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-5">  <!-- RESPONSIVE DESIGN -->  <div class="row">  <div class="col-sm-6 col-lg-4">  <i class="fa fa-laptop box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Responsive Design</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- INTEGRATED CALENDAR -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-calendar box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Integrated Calendar</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- BUG FREE SOLUTIONS -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-bug box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Bug Free Solutions</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Gone are the days where bugs rule this planet! We strive to exterminate each and every one of these vile creatures that have instilled terrors onto our children via chemical warfare. Begone foul vermin.</p></div>  <div class = "col-3"></div>  </div>  </div>  <div class="col-sm-6 col-lg-4">  <!-- CLOUD STORAGE -->  <i class="fa fa-cloud box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Cloud Storage</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- PREMIUM FEATURES -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-blender box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Premium Features</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- 24/7 SUPPORT -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-bible box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>24/7 Support</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>We are always happy to spread the word of our Lord and Saviour, Daddy Ooishi</p></div>  <div class = "col-3"></div>  </div>  </div>  </div>  </div>  </body>  </html> |

#### about.html – RESULT

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### contact.html

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| <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <body>  <div class="row">  <div class="col-sm-6 col-lg-4 p-3 bg-info">  <div class="text-center text-white">  <h4>Contact Us</h4>  <h6>This is information panel</h6>  <i class="fa fa-home mt-2"> Company Location</i><br>  <i class="fa fa-envelope mt-2"> info@example.com</i><br>  <i class="fa fa-mobile-alt mt-2"> +65 12345678</i><br>  <i class="fa fa-phone mt-2"> +65 87654321</i>    </div>  </div>  <div class="col-sm-6 col-lg-4">  <img class="card-img-top" src="images/village.jpg" alt="village" style="width:100%; height:100%;">  </div>  </div>  </body>  </html> |

#### contact.html – RESULT

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### team.html

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| <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style type="text/css">  .box-circle-solid{  background-color:#35CBDF;  border-radius: 50%;  color: #fff;  font-size: 22px;  height: 55px;  line-height: 55px;  text-align: center;  width: 55px;  }  .black {  border: 1px solid black;  }  </style>  </head>  <body>  <div class="text-center">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Meet Our Team</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>This is information panel</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-5">  <div class="row p-5">  <!-- PERSON 1 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail" src="images/hanyuu.jpg" width="50" height="130" alt="Hanyuu">  <div class="card-body">  <h5 class="card-title">Hanyuu</h5>  <p class="card-text">Literal God</p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  <!-- PERSON 2 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail img-fluid" src="images/ooishi.png" alt="Ooishi">  <div class="card-body">  <h5 class="card-title">"Daddy" Ooishi</h5>  <p class="card-text">The One True Daddy</p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  <!-- PERSON 3 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail" src="images/Rika.png" width="50" height="130" alt="Fish">  <div class="card-body">  <h5 class="card-title">Rika</h5>  <p class="card-text">Legal </p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  </div>  </div>  </body>  </html> |

#### team.html – RESULT

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### testimonials.html

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| <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style type="text/css">  .box-circle-solid{  background-color:#35CBDF;  border-radius: 50%;  color: #fff;  font-size: 22px;  height: 55px;  line-height: 55px;  text-align: center;  width: 55px;  }  </style>  </head>  <body>  <div class="text-center">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Client Testimonials</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>What people says about us.</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-3">  <div class="row p-5">  <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>    <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>    <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>  </div>  </div>    <div class="text-center mt-3">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Company Sales Figures</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>(All figures in $ millions)</h6></div>  <div class = "col-3"></div>  </div>  </div>      <table class="table table-hover table-bordered mt-3 p-5">  <thead class="thead-light">  <tr>  <th scope="col">Item</th>  <th scope="col">Jan-Sept 2017 (Actual)</th>  <th scope="col">Jan-Sept 2017 (Projected)</th>  </tr>  </thead>  <tbody>  <tr>  <td>Net Sales</td>  <td>18.661</td>  <td>19.221</td>  </tr>  <tr>  <td>Cost of Goods Sold</td>  <td>12.989</td>  <td>13.262</td>  </tr>  <tr>  <td>Gross Margin</thd>  <td>5.691</td>  <td>5.843</td>  </tr>  <tr>  <td>Net Income</td>  <td>0.279</td>  <td>0.461</td>  </tr>    </tbody>  </table>  </body>  </html> |

#### testimonials.html– RESULT 1

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#### testimonials.html– RESULT 2

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### completed\_website

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style type="text/css">  .box-circle-solid{  background-color:#35CBDF;  border-radius: 50%;  color: #fff;  font-size: 22px;  height: 55px;  line-height: 55px;  text-align: center;  width: 55px;  }  </style>  </head>  <body>  <nav class="navbar navbar-expand-lg navbar-expand-md navbar-expand-sm navbar-light bg-light" id="nav">  <a class="navbar-brand" href="#nav">Company Fish</a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">  <span class="navbar-toggler-icon"></span>  </button>  <div class="collapse navbar-collapse" id="navbarNavDropdown">  <ul class="navbar-nav">  <li class="nav-item active">  <a class="nav-link" href="#home">Home<span class="sr-only">(current)</span></a>  </li>  <li class="nav-item">  <a class="nav-link" href="#about">About</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#team">Team</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#testimonials">Testimonials</a>  </li>  </ul>  </div>  </nav>  <div id="home" class="jumbotron text-primary" style="background-image: url(images/shiraishi.jpg); background-size: 100% 100%; background-repeat: no-repeat;">  <h1 class="display-4">Welcome to the Cult!</h1>  <p class="lead">You know which cult we're talking about - <i>that</i> one, of course!</p>  <hr class="my-4">  <p>"Never think the stars you see are all the stars there are."</p>  <p class="lead">  <a class="btn btn-primary btn-lg" href="#" role="button">Join the cult here</a>  </p>  </div>  <div class="text-center" id="about">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Who We Are</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>This is information panel</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-5">  <!-- RESPONSIVE DESIGN -->  <div class="row">  <div class="col-sm-6 col-lg-4">  <i class="fa fa-laptop box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Responsive Design</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- INTEGRATED CALENDAR -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-calendar box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Integrated Calendar</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- BUG FREE SOLUTIONS -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-bug box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Bug Free Solutions</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Gone are the days where bugs rule this planet! We strive to exterminate each and every one of these vile creatures that have instilled terrors onto our children via chemical warfare. Begone foul vermin.</p></div>  <div class = "col-3"></div>  </div>  </div>  <div class="col-sm-6 col-lg-4">  <!-- CLOUD STORAGE -->  <i class="fa fa-cloud box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Cloud Storage</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- PREMIUM FEATURES -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-blender box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>Premium Features</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>Never in all their history have men been able truly to conceive of the world as one a single sphere</p></div>  <div class = "col-3"></div>  </div>  </div>  <!-- 24/7 SUPPORT -->  <div class="col-sm-6 col-lg-4">  <i class="fa fa-bible box-circle-solid mt-3 mb-3"></i>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h3>24/7 Support</h3></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><p>We are always happy to spread the word of our Lord and Saviour, Daddy Ooishi</p></div>  <div class = "col-3"></div>  </div>  </div>  </div>  </div>  <div class="text-center" id="team">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Meet Our Team</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>This is information panel</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-3">  <div class="row p-5">  <!-- PERSON 1 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail" src="images/hanyuu.jpg" width="50" height="130" alt="Hanyuu">  <div class="card-body">  <h5 class="card-title">Hanyuu</h5>  <p class="card-text">Literal God</p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  <!-- PERSON 2 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail img-fluid" src="images/ooishi.png" alt="Ooishi">  <div class="card-body">  <h5 class="card-title">"Daddy" Ooishi</h5>  <p class="card-text">The One True Daddy</p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  <!-- PERSON 3 -->  <div class="card col-sm-6 col-lg-4 p-3">  <img class="card-img-top rounded-circle img-thumbnail" src="images/Rika.png" width="50" height="130" alt="Fish">  <div class="card-body">  <h5 class="card-title">Rika</h5>  <p class="card-text">Legal </p>  </div>  <div class="row">  <div class = "col-4"><i class="fa fa-phone box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-envelope box-circle-solid mt-3 mb-3"></i></div>  <div class = "col-4"><i class="fa fa-address-book box-circle-solid mt-3 mb-3"></i></div>  </div>  </div>  </div>  </div>  <div class="text-center" id="testimonials">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Client Testimonials</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>What people says about us.</h6></div>  <div class = "col-3"></div>  </div>  </div>  <div class="text-center mt-3">  <div class="row p-5">  <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>  <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>  <div class="card border-success mb-3 col-sm-6 col-lg-4 p-3 m-3" style="max-width: 18rem;">  <div class="card-header bg-transparent"><i class="fa fa-quote-left mt-2 mb-3"></i></div>  <div class="card-body text-dark">  <h5 class="card-title">Success card title</h5>  <p class="card-text">"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,"</p>  </div>  <div class="card-footer bg-transparent border-success">Footer</div>  </div>  </div>  </div>  <div class="text-center mt-3">  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h2>Company Sales Figures</h2></div>  <div class = "col-3"></div>  </div>  <div class="row">  <div class = "col-3"></div>  <div class = "col-6"><h6>(All figures in $ millions)</h6></div>  <div class = "col-3"></div>  </div>  </div>  <table class="table table-hover table-bordered mt-3 mb-3">  <thead class="thead-light">  <tr>  <th>Item</th>  <th>Jan-Sept 2017 (Actual)</th>  <th>Jan-Sept 2017 (Projected)</th>  </tr>  </thead>  <tbody>  <tr>  <td>Net Sales</td>  <td>18.661</td>  <td>19.221</td>  </tr>  <tr>  <td>Cost of Goods Sold</td>  <td>12.989</td>  <td>13.262</td>  </tr>  <tr>  <td>Gross Margin</td>  <td>5.691</td>  <td>5.843</td>  </tr>  <tr>  <td>Net Income</td>  <td>0.279</td>  <td>0.461</td>  </tr>  </tbody>  </table>  <div class="row">  <div class="col-sm-6 col-lg-6 p-3 bg-info">  <div class="text-center text-white">  <h4>Contact Us</h4>  <h6>This is information panel</h6>  <i class="fa fa-home mt-2"> Company Location</i><br>  <i class="fa fa-envelope mt-2"> info@example.com</i><br>  <i class="fa fa-mobile-alt mt-2"> +65 12345678</i><br>  <i class="fa fa-phone mt-2"> +65 87654321</i>  </div>  </div>  <div class="col-sm-6 col-lg-6">  <img class="card-img-top" src="images/village.jpg" alt="village" style="width:100%; height:100%">  </div>  </div>    <footer class="pt-4 my-md-5 pt-md-5 border-top">  <div class="row">  <div class="col-12 col-md">  <img class="mb-2" src="images/ooishi2.png" alt="" width="120" height="100">  <small class="d-block mb-3 text-muted">&copy; 2017-2018</small>  </div>  <div class="col-6 col-md">  <h5>Features</h5>  <ul class="list-unstyled text-small">  <li><a class="text-muted" href="#">Cool stuff</a></li>  <li><a class="text-muted" href="#">Random feature</a></li>  <li><a class="text-muted" href="#">Team feature</a></li>  <li><a class="text-muted" href="#">Stuff for developers</a></li>  <li><a class="text-muted" href="#">Another one</a></li>  <li><a class="text-muted" href="#">Last time</a></li>  </ul>  </div>  <div class="col-6 col-md">  <h5>Resources</h5>  <ul class="list-unstyled text-small">  <li><a class="text-muted" href="#">Resource</a></li>  <li><a class="text-muted" href="#">Resource name</a></li>  <li><a class="text-muted" href="#">Another resource</a></li>  <li><a class="text-muted" href="#">Final resource</a></li>  </ul>  </div>  <div class="col-6 col-md">  <h5>About</h5>  <ul class="list-unstyled text-small">  <li><a class="text-muted" href="#">Team</a></li>  <li><a class="text-muted" href="#">Locations</a></li>  <li><a class="text-muted" href="#">Privacy</a></li>  <li><a class="text-muted" href="#">Terms</a></li>  </ul>  </div>  </div>  </footer>    </body>  </html> |

# L2 jQuery **Introduction**

## jQuery Selectors

### Exercise 1a (Basic Selectors):

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| x <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("button").click(function () {  // Basic Selectors      // element with myHeader id will be yellow  // $("#myHeader").css('background-color', 'yellow');  //All div with abc class will be yellow  // $("div.abc").css('background-color', 'yellow');  //All span with abc class will be yellow  // $("span.abc").css('background-color', 'yellow');  // subclasses of division will be yellow  // $("div.abc").css('background-color', 'yellow');  // All div elemeent will be yellow  $("div").css('background-color', 'yellow');  });  });  </script>  </head>  <body>  <!-- element with myHeader id-->  <h1 id="myHeader">What element I am!</h1>    <!-- All div with abc class-->  <div class="abc">this is the div tag with the class abc</div>  <div>  <!--subclasses of division-->  <div><span class="abc">this is sub one</span></div>    <!--div elemeent-->  <div>this is another text</div>  </div>  <button>Click me to show selected element</button>  </body>  </html> |

#### RESULT

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### Exercise 1b (Index-based Selectors):

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("button").click(function () {  // Index-based Selectors  // all div element with class green  // $("div.green").css('background-color', 'yellow');  // element with a specific index - the forth element  // $("ul#list li:eq(3)").css('background-color', 'yellow');  //element with a odd number index - 1st & 3rd element  // $("ul#list li:odd").css('background-color', 'yellow');  // all div element with class purple , red & with the green 1st element  // $("div.red, div.green:eq(0), div.purple").css('background-color', 'yellow');  //ask Tcher  // unordered list with the list item at the 1st index  $("ul li:eq(1)").css('background-color', 'yellow');  // div element with class green of the 1st element & all div element with class purple  // $("div.green:eq(1), div.purple").css('background-color', 'yellow');  // all div element with class red & blue  $("div.red, div.blue").css('background-color', 'yellow');  //ask Tcher  // unordered list with the list item at the 1st index  $("ul li:eq(1)").css('background-color', 'yellow');  });  });  </script>  </head>  <body>  <!-- unordered list with id = "list"-->  <ul id="list">  <li>First Item</li>  <li>Second Item</li>  <li>Third Item</li>  <li>Fourth Item</li>  </ul>  <div class="red">Red Triangle</div>  <div class="blue">Blue Triangle</div>  <div class="green">Green Triangle</div>  <div class="green">Green Square</div>  <div class="purple">Purple Square</div>  <button>Click me to show selected element</button>  </body>  </html> |

#### RESULT

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### Exercise 1c (Attribute Selectors):

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| <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("button").click(function () {  // // <div class="red triangle">Red Triangle</div>  $("[class ='red triangle']").css('background-color', 'yellow');  // // <div class="red triangle">Red Triangle</div>  // // <div class="red circle">Red Circle</div>  // $("[class^='red']").css('background-color', 'yellow');  //  //// // <div class="red triangle">Red Triangle</div>  //// // <div class="blue triangle">Blue Triangle</div>  // $("[class = $'triangle']").css('background-color', 'yellow');  });  });  </script>  </head>  <body>  <div class="red triangle">Red Triangle</div>  <div class="blue triangle">Blue Triangle</div>  <div class="yellow square">Yellow Square</div>  <div class="red circle">Red Circle</div>  <div class="yellow circle">Yellow Circle</div>  <button>Click me to show selected element</button>  </body>  </html> |

#### RESULT

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### Exercise 1d (Form Selectors):

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| <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("button").click(function () {  // Customer Name and Phone  $(":text").css('background-color', 'yellow');  // // Customer Name  // $("[name=custName]").css('background-color', 'yellow');  //  // // Male and Female  // $(":radio").css('background-color', 'yellow');  //  // // Badminton and Swimming  // $(".checkbox:checked").css('background-color', 'yellow');  });  });  </script>  </head>  <body>  <p>Customer Name:<input type="text" name="custName" value="John Smith"/>  <p>Phone:<input type="text" name="phone" value="12345678"/>  </p>  <p>Gender  <input type="radio" name="gender" value="M" checked/> Male  <input type="radio" name="gender" value="F" /> Female  </p>  <p>Hobbies  <input type="checkbox" name="hobbies" value="badminton" checked/> Badminton  <input type="checkbox" name="hobbies" value="swimming" checked/> Swimming  <input type="checkbox" name="hobbies" value="basketball" /> Basketball  </p>  <p><input type="submit"/>  <br></br>  <button>Click me to show selected element</button>  </body>  </html> |

#### RESULT

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### Exercise2

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style>  .myclass {  font-weight: bold;  color: blue;  }  </style>  <script>  $(document).ready(function () {  // Basic Selectors    // element with .abc class  $(".abc").css("border", "3px solid red");    // all p (paragraph)  $("p").css("background-color", "cyan");    // .sub-one class & #one id elements  $("#one .sub-one").addClass("myclass");  })  </script>  </head>  <body>  <div class="abc">this is the div tag with the class abc</div>  <p>Good morning</p>  <p>a good day!</p>  <div id="one">  a text  <div class="sub-one">this is sub one</div>  <div>this is another text</div>  </div>    <button>Click me to show selected element</button>  </body>  </html> |

#### RESULT

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### Exercise2a

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| x<!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style>  .red { color: #FF0000; }  .green { color: #00FF00; }  .blue { color: #0000FF; }  </style>  <script>  $(document).ready(function () {  // element with hello id  $("#hello").css("color", "lightgreen");  // all p (paragraph) element  $("p").css("font-style", "italic");  // all red class element  $(".red").css("border", "2px solid green");  // element with message id  $("#message").css("color", "black");  // all p (paragraph) element  $("p").prepend("Hello World");  // #message id element  $("#message").append("John Smith");    })  </script>  </head>  <body>  <h1 id="hello">Hi!</h1>  <p id="message" class="red">First Line </p>  <p class="red">Second Line </p>  <p>Third Line </p>  </body>  </html> |

#### RESULT

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### Exercise2b

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  // all title class element  $(".title").css({"border": "3px solid black", "font-weight": "bold"});  // element with sub id  $("#sub").text("For guests, we provide:");  // element with message id  $("#message").css("color", "black");  // all "p" element  $("p").addClass("new");  // all new class element  $(".new").prepend("<i>free</i> ");  })  </script>  </head>  <body>    <div class="title">This event is to introduce my new book.</div>  <div id="sub">sub title</div>  <p>key chain</p>  <div>Do attend this event.</div>    </body>  </html> |

#### RESULT

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### Exercise2c.

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style>  .top {  border: 1px solid #cecfd5;  border-radius: 6px;  list-style: none;  padding: 8px 0 8px 0;  text-align: center  }  .nav {  display:block;  text-decoration: none;  padding: 6px 12px;  }  </style>  <script>  $(document).ready(function () {  // all back class element  $(".back").css("text-transform", "uppercase");  // unordered list  $("ul").addClass("top");  // list item  $("li").css("display", "inline");  // friends id & All elements with a href attribute value ending with ".com/"  $("#friends a[href$='.com/']").css("color", "#0087cc");    // friends id  $("#friends").addClass("nav");    // friends id  $("#friends a").append("<br>");  // friends id  $("#social a:odd").css("background-color", "lightpink");    // friends id  $("#social a:even").css("background-color", "lightblue");    // last "p" element  $("p:last").css("font-size", "8px");  // EXTRA  $("#b1").click(function () {  //$("#bg").css({'background-image': 'url("images/Daddy\_A1.png")', 'background-size':'100%', 'background-repeat:':'no-repeat'});  $("#bg").attr("src", "images/Daddy\_A1.png");  $("#bg").css({"object-fit": "scale-down", "width": "50%", "height": "50%"});  });  $("#b2").click(function () {  //$("#bg").css({'background-image': 'url("images/rena.gif")', 'background-size':'100%', 'background-repeat:':'no-repeat'});  $("#bg").attr("src", "images/rena.gif");  $("#bg").css({"object-fit": "scale-down", "width": "25%", "height": "25%"});  });  $("#b3").click(function () {  //$("#bg").css({'background-image': 'url("images/Daddy\_A1.png")', 'background-size':'100%', 'background-repeat:':'no-repeat'});  $("#bg").attr("src", "images/corn.gif");  $("#bg").css({"object-fit": "scale-down", "width": "50%", "height": "50%"});  });  $("#b4").click(function () {  var audio = document.getElementById('audio');  audio.currentTime = 0;  audio.play();  });  })  </script>  </head>  <body>  <div id="wrapper">  <header>  <h1 id="title">  <span class="front">the works of </span>  <span class="back">justin edmund</span>  </h1>  <ul>  <li>  <a href="http://jedmund.com/about">about</a>  </li>  <li>  <a href="http://blog.jedmund.com/">blog</a>  </li>  <li>  <a href="http://jedmund.com/projects">works</a>  </li>  </ul>  </header>  <p>Justin Edmund is a maker focusing on product design and software development. He primarily builds tools that help people be more creative and inspired. He also enjoys bookbinding and other physical forms of design.</p>  <p>He currently works at <a href="http://pinterest.com/" title="Pinterest" target="\_new">Pinterest</a> in San Francisco, California as a product designer. He worked at <a href="http://facebook.com/" title="Facebook" target="\_new">Facebook</a> briefly as an intern in 2010. He graduated from the <a href="http://design.cmu.edu/" title="School of Design" target="\_new">Carnegie Mellon University School of Design's</a> Communication Design program in May 2011.</p>  <div id="friends">  <h3>I like these people</h3>  <a href="http://ashsmash.com/" target="\_new">Ash Huang</a>  <a href="http://victorng.net/" target="\_new">Victor Ng</a>  <a href="http://leebyron.com/" target="\_new">Lee Byron</a>  <a href="http://dianewuart.blogspot.com/" target="\_new">Diane Wu</a>  <a href="http://helloauan.com/" target="\_new">Jonathon Toon</a>  <a href="http://rsms.me/" target="\_new">Rasmus Andersson</a>  <a href="http://hiytrebla.com/" target="\_new">Albert Yih</a>  </div>  </div>  <div class = "images">  <img id="bg"/><br>  </div>  <footer>  <p>Justin Edmund is a maker focusing on product design and software development.  </p>  <p>He is happily working as a Product Designer at <a href="http://pinterest.com/" title="Pinterest" target="\_new">Pinterest</a> in San Francisco. Want to get in touch? <a href="mailto:hello@jedmund.com" title="" target="\_new">Send an email!</a></p>  <div id="social">  <a href="http://www.facebook.com/jedmund" target="\_new">facebook</a>  <a href="http://www.twitter.com/jedmund" target="\_new">twitter</a>  <a href="http://pinterest.com/jedmund" target="\_new">pinterest</a>  <a href="http://www.dribbble.com/jedmund" target="\_new">dribble</a>  <a href="http://quora.com/Justin-Edmund-1" target="\_new">quora</a>  <a href="http://github.com/jedmund" target="\_new">github</a>  <a href="http://vimeo.com/jedmund" target="\_new">vimeo</a>  <a href="http://linkedin.com/in/jedmund" target="\_new">linkedin</a>  </div>  <!-- EXTRA -->  <audio id="audio" src="audio/emergency\_food.mp3"></audio>  <button id="b1">Fish</button>  <button id="b2">Dog</button>  <button id="b3">Cat</button>  <button id="b4">Play</button>  <p>all works ©2007-2012 Justin Edmund, all rights reserved • Built on <a href="http://getfoundation.com/">Foundation</a> • <a href="http://jedmund.com/admin">admin</a></p>  </footer>  </body>  </html> |

#### RESULT 1

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#### RESULT 2

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### Exercisechallange

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("#btn1").click(function () {  $("div:eq(0)").css('background-color', 'red');  $("div:eq(1)").css('background-color', 'white');  $("div:eq(2)").css('background-color', 'white');  });  $("#btn2").click(function () {  $("div:eq(1)").css('background-color', '#39ff14');  $("div:eq(0)").css('background-color', 'white');  $("div:eq(2)").css('background-color', 'white');  });  $("#btn3").click(function () {  $("div:eq(2)").css('background-color', 'blue');  $("div:eq(0)").css('background-color', 'white');  $("div:eq(1)").css('background-color', 'white');  });  });  </script>  <style>  #btn1 , #btn2 , #btn3 {  border: none;  color: white;  padding: 15px 32px;  text-align: center;  text-decoration: none;  display: inline-block;  font-size: 16px;  margin: 4px 2px;  cursor: pointer;  }  #btn1 {background-color: #FF0000;} /\* Red \*/  #btn2 {background-color: #39ff14;} /\* Green \*/  #btn3 {background-color: #008CBA;} /\* Blue \*/  </style>  </head>  <body>  <div class="red">Akira</div>  <div class="green">The Matrix</div>  <div class="blue">Blade Runner</div>  <br></br>  <button id="btn1">Red</button>  <button id="btn2">Green</button>  <button id="btn3">Blue</button>  </body>  </html> |

#### RESULT

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# L3 Jquery Methods

### Exercise1.php

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  // html() method is used to retrieve the HTML contents of that selector  var favText = $(".smallText").html();  // val() method is used to retrieve the value of that form element  var fruit = $(":text").val();  // string interpolation in javascript  const message = `${favText}, ${fruit}!`;    // html() method is used to set the content of that element with the value in variable “message”  $("#result").html(message);  })  </script>  </head>  <body>  <p class="smallText">My favourite fruit is</p>  <input type="text" name="fruit" value="apple"/>  <p id="result"></p>  </body>  </html> |

#### RESULT

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### Exercise2.php.

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 2</title>  <meta charset="UTF-8">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {    alert("test");    // All elements with a name equal to email/qty  var email = $("[name=email]").val(); // val() method is used to retrieve the value of that form element  var qty = $("[name=qty]").val();      // obtain the values of selected dropdown list element  var bookName = $("select").val();    // Form Selectors , obtain the values of checked radio btns  var payment = $(":radio:checked").val();    var message = "";  // returns the content of selected html elements  message += $("[for=idEmail]").html() + " is " + email + "\n";  message += $("[for=idQty]").html() + " is " + qty + "\n";  message += $("[for=idBookName]").html() + " is " + bookName + " \n";  message += $("label:eq(3)").html() + " is " + payment + "\n";  // Alert box  alert(message);  // Confirm box  // confirm(message);  })  </script>  </head>  <body>  <label for="idEmail">Email</label>:  <input type="email" name="email" id="idEmail" value="123456@rp.edu.sg">  <br/>  <label for="idQty">Quantity</label>:  <input type="number" name="qty" id="idQty" min="1" max="999" value="80">  <br/>  <label for="idBookName">Books to purchase</label>:  <select name="bookName" id="idBookName">  <option value=""></option>  <option value="linux" selected>Linux</option>  <option value="java">Java</option>  </select>  <br/>    <label>Payment Method</label>:  <input type="radio" name="payment" id="idVisa" value="visa" checked><label for="idVisa">Visa</label>  <input type="radio" name="payment" id="idMaster" value="master"><label for="idMaster">MasterCard</label>  <input type="radio" name="payment" id="idExpress" value="express"><label for="idExpress">American Express</label>  <p id="result"></p>    </body>  </html> |

#### RESULT

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### exercise3.js

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| $(document).ready(function () {  $("form").submit(function () {  // complete the code here  //The submit event occurs when a form is submitted.  // This event can only be used on<form> elements  var name = $("[name=myName]").val();  var age = $("[name=myAge]").val();  var message = "";  var drinks = [];      // This selector retrieves all selected checkboxes.  //The each() function is used  //to iterate every selected checkbox  $("[type=checkbox]:checked").each(function () {  // complete the code here  drinks.push($(this).val());  })  // complete the code here  message += $("[for=id\_name]").html() + name + "\n";  message += $("[for=id\_age]").html() + age + "\n";  message += "Selected drinks: " + drinks.join(" ") + "\n";  var total = 0;  for (i = 0; i < drinks.length; i++) {  if (drinks[i] === "COKE") {  total += 1.20;  } else if (drinks[i] === "SPRITE") {  total += 1.30;  } else if (drinks[i] === "PEPSI") {  total += 1.40;  } else if (drinks[i] === "7-UP") {  total += 1.50;  }  }  // The toFixed() method converts a  // number into a string,  // keeping a specified number of decimals.  message += "\n The total cost is $" + total.toFixed(2);  alert(message);  return false;  })  }) |

#### Exercise3.php

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 3</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script src="js/exercise3.js"></script>  </head>  <body>  <div class="container">  <h1>Exercise 3</h1>  <form method="post" action="#">  <div class="form-group">  <label for="id\_name">Name: </label>  <input type="text" name="myName" id="id\_name" class="form-control"/>  </div>  <div class="form-group">  <label for="id\_age">Age: </label>  <input type="text" name="myAge" id="id\_age" class="form-control"/>  </div>  <div class="form-group">  <label for="id\_coke">Drinks:</label>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_coke" name="drinks[]" value="COKE" class="form-check-input"/>Coke($1.20)  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_sprite" name="drinks[]" value="SPRITE" class="form-check-input"/>Sprite($1.30)  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_pepsi" name="drinks[]" value="PEPSI" class="form-check-input"/>Pepsi($1.40)  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_7-up" name="drinks[]" value="7-UP" class="form-check-input"/>7-UP($1.50)  </label>  </div>  </div>  <input class="btn btn-primary" type="submit" value="Calculate" />  </form>  </div>  </body>  </html> |

##### RESULT

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### moodyWedderBlog.php

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 3</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("#blogform").submit(function (evt) {  // complete the code here  var name = $("[id=name]").val();  var blog = $("[id=blog]").val();  var message = "";  var currDate = new Date();  // var options = {weekday: 'short', day: 'numeric', year: 'numeric', month: 'short', hour: '2-digit', minute: '2-digit', second: '2-digit', hour12: false, timeZoneName: 'short'};  message += name + " on " + currDate.toUTCString() + "<br>";  message += "<b>" + blog + "</b><br><br>";  $(".card-body").append(message);  $("#name").val("")  $("#blog").val("")  return false;  })  })  </script>  </head>  <body>  <p class=greet>How are you</p>  <div class="container">  <h2>MoodyWedderBlog <i class="fa fa-sun"></i><i class="fa fa-tint"></i><i class="fa fa-snowflake"></i><i class="fa fa-bolt"></i></h2>  <div class="card border-info">  <div class="card-header bg-success text-white">Blog Entries</div>  <div class="card-body"></div>  </div>  <form id="blogform">  <div class="form-group">  <label for="name">Enter your name (optional):</label>  <input type="text" class="form-control" id="name">  </div>  <div class="form-group">  <textarea id="blog" rows="10" cols="20" class="form-control"></textarea>  </div>  <input type="submit" class="btn btn-info btn-block" value="Add a blog"/>  </form>  </div>  </body>  </html> |

#### RESULT

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### shipCostCalculator.php

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| <!DOCTYPE html>  <html>  <head>  <title>Shipping Cost Calculator</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("#bg").attr("src", "images/Platypus-GTAIV-Fore.png");  $("#bg").css({"object-fit": "scale-down", "width": "50%", "height": "50%"});  $("img").css('display', 'inline-block');  var shipping\_cost1 = new Image();  var shipping\_cost2 = new Image();  var shipping\_cost3 = new Image();  shipping\_cost1.src = 'images/shipping-cost.png';  shipping\_cost2.src = 'images/shipping-cost.png';  shipping\_cost3.src = 'images/shipping-cost.png';  document.body.appendChild(shipping\_cost1);  document.body.appendChild(shipping\_cost2);  document.body.appendChild(shipping\_cost3);  $("form").submit(function () {  var bWeight = $("[id=id\_bWeight").val();  var bNum = $("[id=id\_bNum]").val();  var shippingTime = $(":radio:checked").val();  var shippingMethod = $("select").val();  var extra = [];    $("[type=checkbox]:checked").each(function () {  extra.push($(this).val());  })  var message = "";  message += "Book Weight (kg): " + bWeight + "\n";  message += "Number of books: " + bNum + "\n";  message += "Method: " + shippingMethod + "\n\n";  message += "Shopping options (days): " + shippingTime + "\n";  if (extra.length === 3) {  message += "Extra additions: " + extra.join(" ") + "\n(You have selected all extra services)" + "\n\n";  } else {  message += "Extra additions: " + extra.join(" ") + "\n\n";  }  var total = (bWeight \* bNum) \* 0.5;  for (i = 0; i < extra.length; i++) {  if (extra[i] === "better box") {  total += 10;  } else if (extra[i] === "weekend delivery") {  total += 15;  } else if (extra[i] === "gift wrap") {  total += 15;  }  }  if (shippingMethod === "sea") {  total += 40;  } else if (shippingMethod === "air") {  total += 30;  }  if (shippingTime === "1-2") {  total += 40;  } else if (shippingTime === "3-5") {  total += 25;  } else if (shippingTime === "6-9") {  total += 10;  }  if (bNum > 3 && extra.length >= 1) {  total \*= 0.85;  } else if (bNum > 3) {  total \*= 0.9;  }  message += " The shipping total cost is $" + total;  if (!confirm(message)) {  return false;  }  //return false;  })  })  </script>  </head>  <body>  <div class="container">  <h1>Shipping Cost Calculator</h1>  <img id="bg"/><br>  <hr>  <form method="post" action="doShipCostCalculator.php">  <div class="form-group">  <label for="id\_bWeight">Books weight (in KG): </label>  <input type="text" name="books\_weight" id="id\_bWeight" class="form-control"/>  </div>  <div class="form-group">  <label for="id\_bNum">Number of books to buy: </label>  <input type="text" name="books\_num" id="id\_bNum" class="form-control"/>  </div>  <div class="form-group">  <label>Shipping time: </label>  <input class="form-check-inline" type="radio" name="shipping" id="id12" value="1-2" checked><label for="idVisa">1 - 2 days</label>  <input class="form-check-inline" type="radio" name="shipping" id="id35" value="3-5"><label for="idMaster">3 - 5 days</label>  <input class="form-check-inline" type="radio" name="shipping" id="id69" value="6-9"><label for="idExpress">6 - 9 days</label>  </div>  <div class="form-group">  <label for="idShipping\_method">Shipping method: </label>  <select class="form-control" name="shipping\_method" id="idShipping\_method">  <option value="air" selected>Air</option>  <option value="Sea">Sea</option>  </select>  </div>  <div class="form-group">  <label for="id\_coke">Extra additions:</label>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_coke" name="extra[]" value="better box" class="form-check-input"/>better box  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_sprite" name="extra[]" value="weekend delivery" class="form-check-input"/>weekend delivery  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label">  <input type="checkbox" id="id\_pepsi" name="extra[]" value="gift wrap" class="form-check-input"/>gift wrap  </label>  </div>  </div>  <input class="btn btn-primary" type="submit" value="Calculate" />  </form>  </div>  </body>  </html> |

#### RESULT 1

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#### RESULT 2

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#### RESULT 3

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### doShipCostCalculator

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| <?php  $db\_host = "localhost";  $db\_username = "root";  $db\_password = "";  $db\_name = "c273\_p03";  $link = mysqli\_connect($db\_host, $db\_username, $db\_password, $db\_name) or  die(mysqli\_connect\_error());  $bookWeight = $\_POST['books\_weight'];  $bookNum = $\_POST['books\_num'];  $shipingTime = $\_POST['shipping'];  $shipingmethod = $\_POST['shipping\_method'];  $additions = $\_POST['extra'];  $extra = "";  foreach ($additions as $key => $e) {  $extra .= $e . ' ';  }  $query = "INSERT INTO books  (book\_weight, num\_books, ship\_time, ship\_method, extra\_additions)  VALUES  ('$bookWeight','$bookNum','$shipingTime','$shipingmethod','$extra')";  $status = mysqli\_query($link, $query) or die('Error in the database query');  if ($status) {  $message = "Record successfully inserted.";  } else {  $message = "Failed to insert the record.";  }  mysqli\_close($link);  ?>  <!DOCTYPE html>  <html>  <head>  <title>doShipCostCalculator.php</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <style>  .center {  display: block;  margin-left: auto;  margin-right: auto;  width: 50%;  }  </style>  <body style="color: white; background-image: url('images/wave.ngsversion.1500050062134.adapt.710.1.jpg'); background-size: 100% 100%; ">  <?php  echo $message;  ?>  <br>  <img id="img" src='images/maxresdefault.jpg' class="center"/><br>  <img id="img" src='images/SSBulker-GTAV-Fore.png' class="center"/><br>  </body>  </html> |

# L4 Jquery Event handling

## exercise1a

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  // alert msg  alert("test");  // Mouse clicks an id-btn object  $("#btn1").click(function () {  // Sets the content of selected (html) of id-heading1 elements  $("#heading1").html("<b>Hello World</b>");  });  })  </script>  <style>  .required { color: #FF0000; }  </style>  </head>  <body>  <h1 id="heading1">Heading 1</h1>  <p id="magic">Point your mouse pointer here!!!</p>  <input type="button" id="btn1" value="Change Heading 1">  </body>  </html> |

#### RESULT

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## exercise1b

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  // when mouse is moved over #btn1 element  $("#btn1").hover(function () {  // Sets the value of #btn1 elements  $(this).val("Hello World");  // Hides the #heading1 elements  $("#heading1").hide();  // Sets the content of #magic elements  $("#magic").html("<i class = 'fa fa-dove'></i>");  });  // when mouse is moved over #magic element  $("#magic").hover(function () {  // Toggles between adding/removing  // one/more classes from #magic element  $(this).toggleClass("required");  })  });  </script>  <style>  .required { color: #FF0000; }  </style>  </head>  <body>  <div class="container">  <h1 id="heading1">Heading 1</h1>  <p id="magic">Point your mouse pointer here!!!</p>  <input type="button" id="btn1" value="Change Heading 1">  </div>  </body>  </html> |

#### RESULT

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## **exercise2a**

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 2a</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <style>  .greenbox {  position:absolute;  top:100px;  left:20px;  height:200px;  width:200px;  background-color:green  }  </style>  <script>  //The "$" symbol or the word jQuery = jQuery function (contains all jQuery functionalities).  //document refers to a selector. It selects the document / webpage.  //The "ready" event indicates that the webpage Document Object Model (DOM) is ready for JavaScript code to execute.  //The function part indicates the function which will be called when the above is true. This function contains an alert command  $(document).ready(function () {  var num = 0;  // Sets the text content of #numClicks element  $("#numClicks").text(num);  // when mouse clicks .greenbox element  $(".greenbox").click(function () {  // whenever mouse clicks .greenbox element , num increased by 1  num++;  // Sets the text content of #numClicks element  $("#numClicks").text(num);  });  // Execute JavaScript when mouse clicks .greenbox element with a context menu:  $(".greenbox").contextmenu(function () {  // whenever mouse clicks .greenbox element , num increased by 1  num++;  // Sets the text content of #numClicks element  $("#numClicks").text(num);  });  });  </script>  </head>  <body>  <h1>Click the mouse in the green box</h1>  <p>Number of clicks: <span id="numClicks"></span></p>  <div class="greenbox"></div>  </body>  </html> |

#### RESULT

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## exercise2b

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 2</title>  <meta charset="UTF-8">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  var num = 0;  // Mouse clicks an object  $("#down").click(function () {  // Everytime when it clicks , the number decreases by 1  num--;  // Sets the content of selected (html) elements for id numClicks  // Everything when it clicks , the number decreases by 1  $("#qty").val(num);  });  // Mouse clicks an object  $("#up").click(function () {  // Everytime when it clicks , the number increases by 1  num++;  // Sets the content of selected (html) elements for id numClicks  // Everything when it clicks , the number increases by 1  $("#qty").val(num);  });  });  </script>  <style>  input {  font-size: 2.4em;  background-color: transparent;  text-align: center;  border-width: 0;  width: 100%;  margin: 0 0 .1em 0;  color: #FF6347 ;  }  label {  display: block;  font-size: .8em;  }  button {  color: #444;  background-color: #B5B198;  border-radius: 6px;  font-weight: bold;  }  .box {  background-color: #444;  color: #C4BE92;  text-align: center;  border-radius: 12px;  padding: .8em .8em 1em;  width: 8em;  margin: 0 auto;  box-shadow: 0px 0px 12px 0px #000;  }  </style>  </head>  <body>  <div class="box">  <label for="qty"><abbr title="Quantity">Qty</abbr></label>  <input id="qty" value="0" />  <button id="down" >-1</button>  <button id="up" >+1</button>  </div>  </body>  </html> |

#### RESULT

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## exercise2c

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>^  <script>  $(document).ready(function () {  // Sets the attributes of #bg element for to the selected image  $("#bg").attr("src", "images/thesopranos.jpg");  // Sets the CSS of #bg element for to the selected image  $("#bg").css({"object-fit": "scale-down", "width": "100%", "height": "100%"});  // Sets the CSS of images being displayed  $("img").css('display', 'inline-block');  // when the checkbox is clicked  $("[type=checkbox]").click(function () {  var message = "";  // those checkboxs that have been checked  $("[type=checkbox]:checked").each(function () {  message += $(this).val() + "\n";  })  // Sets the value of #results element  $("#results").val(message);  });  // When id-pizzaform The submit button is clicked  $("#pizzaform").submit(function () {  // get the value of element id-results  var message = $("#results").val();  // confrim msg  var tmp = confirm("Are you sure you wish to have the following toppings? \n\n" + message);  if (tmp) {  alert("Order submitted");  return true  } else {  return false;  }  })  // when the #music element is clicked  $("#b4").click(function () {  var audio = document.getElementById('audio');  audio.currentTime = 0;  audio.play();  });  });  </script>  <style>  .checkbox {  font-weight: bold;  }  </style>  </head>  <body>  <body style="color: white; background-image: url('images/naples.jpeg'); background-size: 50% 50%; ">  <div class="row">  <div class="text-center">  <h1>Napolizz Pizza</h1>  <h3>Neapolitan pizza also known as Naples-style pizza,  is a style of pizza made with tomatoes and mozzarella cheese</h3>  <img id="bg"/><br>  </div>  </div>  </div>  <h1></h1>  <div class="container">  <br/>  <br><form id="pizzaform">  <div class="form-group">  <label>Pick your pizza toppings:</label>  </div>  <div class="checkbox">  <label><input type="checkbox" value="Tomatoes"> Tomatoes</label><br/>  <label><input type="checkbox" value="Salami"> Salami</label><br/>  <label><input type="checkbox" value="Pineapple"> Pineapple</label><br/>  <label><input type="checkbox" value="Canadian bacon"> Canadian bacon</label><br/>  <label><input type="checkbox" value="Anchovies"> Anchovies</label><br/>  <label><input type="checkbox" value="Extra Cheese"> Extra Cheese</label>  </div>  <div class="form-group">  <label for="results">Pizza Toppings:</label>  <textarea id="results" rows="10" cols="20" class="form-control"></textarea>  </div>  <img src="images/PizzaMan.gif" alt=""/><br/><br/>  <input type="submit" class="btn btn-default" value="Submit"/>  </form>  </div>  <audio id="audio" src="audio/Tarantella\_Napoletana.mp3"></audio>  <button id="b4">The Pizza Song</button>  </body>  </html> |

#### RESULT

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## exercise2d

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>Exercise 2c</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  //The "$" symbol or the word jQuery = jQuery function (contains all jQuery functionalities).  //document refers to a selector. It selects the document / webpage.  //The "ready" event indicates that the webpage Document Object Model (DOM) is ready for JavaScript code to execute.  //The function part indicates the function which will be called when the above is true. This function contains an alert command  $(document).ready(function () {  // when the .fa-plus element is clicked  $(".fa-plus").click(function () {  // if #todo textField is visible  if ($("#todo").is(":visible")) {    // clicking the .fa-plus element hides the #todo textField  $("#todo").hide();    // if #todo textField is invisible    } else {  // clicking the .fa-plus element  // reveals the #todo textField after hidning  $("#todo").show();  }  });  // when all elements with a input type value equal to 'text' , key is pressed down  $("input[type='text']").keypress(function (event) {    if (event.which == 13) {  var todoText = $(this).val();  $(this).val("");  $("table").append("<tr><td><button class='btn btn-danger'><i class='fas fa-trash-alt'></i> </button>" + todoText + " <td><tr>");  }  });  $("table").on("click", ".btn-danger", function (event) {  $(this).parent().parent().remove();  });  $("table").on("click", "tr", function () {  $(this).toggleClass("completed");  });  $("#b4").click(function () {  var audio = document.getElementById('audio');  audio.currentTime = 0;  audio.play();  });  });  </script>  <style>  .completed{  text-decoration: line-through;  }  </style>  </head>  <body>    <!--div container-->  <div class="container">  <h3 class="bg-info">TODO List <i class="fa fa-plus"></i></h3>  <!---->  <form class="form-inline" action="#">  <div class="form-group">  <input type="text" id="todo" class="form-control"/>  </div>  </form>  <table id="todolist" class="table table-striped table-bordered">  </table>  </div>  <audio id="audio" src="audio/Untitled.mp3"></audio>  <button id="b4">The Sad Song</button>  </body>  </html> |

#### RESULT

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## exercise3

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="utf-8">  <title>Exercise 3</title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script src="js/exercise3.js"></script>  <script>  $(document).ready(function () {  $("#bg").attr("src", "images/thesopranos.jpg");  $("#bg").css({"object-fit": "scale-down", "width": "100%", "height": "100%"});  $("img").css('display', 'inline-block');  $("#b4").click(function () {  var audio = document.getElementById('audio');  audio.currentTime = 0;  audio.play();  });  });  </script>  <style>  .form-group {  font-weight: bold;  }  </style>  </head>  <body>  <body style="color: white; background-image: url('images/wallstreet-580.jpg'); background-size: 50% 50%; ">  <div class="container">  <h3>Exercise 3</h3>  <div class="alert alert-danger" role="alert" id="alertBox">  </div>  <form id="form" method="post" action="#" class="form-horizontal">  <div class="form-group">  <label for="idName">Name<span style="color:red">\*</span>:</label>  <input type="text" name="name" id="idName" class="form-control"/>  </div>  <div class="form-group">  <label for="idAddress">Address:</label>  <input type="text" name="address" id="idAddress" class="form-control"/>  </div>  <div class="form-group">  <label for="idPostal">Postal Code:</label>  <input type="text" name="postalcode"  placeholder="enter a 6-digit code" id="idPostal" class="form-control"/>  </div>  <div class="form-group">  <label for="selCountry">Country<span style="color:red">\*</span>:</label>  <select id="selCountry" name="country" class="form-control">  <option value="" selected>Please select...</option>  <option value="Singapore">Singapore</option>  <option value="Japan">Japan</option>  <option value="Korea">Korea</option>  <option value="Isreal">Isreal</option>  <option value="Taiwan">Taiwan</option>  </select>  </div>  <div class="form-group">  <label>Gender<span style="color:red">\*</span>:</label>  <div class="form-check-inline">  <label class="form-check-label" for="radio1">  <input type="radio" class="form-check-input" id="radio1" name="gender" value="m">Male  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label" for="radio2">  <input type="radio" class="form-check-input" id="radio2" name="gender" value="f">Female  </label>  </div>  </div>  <div class="form-group">  <label>Preferences<span style="color:red">\*</span>:</label>  <div class="form-check-inline">  <label class="form-check-label" for="check1">  <input type="checkbox" id="check1" name="color[]" value="r" class="chkboxlist form-check-input">Red  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label" for="check2">  <input type="checkbox" id="check2" name="color[]" value="g" class="chkboxlist form-check-input">Green  </label>  </div>  <div class="form-check-inline">  <label class="form-check-label" for="check3">  <input type="checkbox" id="check3" name="color[]" value="b" class="chkboxlist form-check-input">Blue  </label>  </div>  </div>  <div class="form-group">  <label for="idName">Phone<span style="color:red">\*</span>:</label>  <input type="text" name="phone" id="idPhone" class="form-control"/>  </div>  <div class="form-group">  <label for="idEmail">Email<span style="color:red">\*</span>:</label>  <input type="text" name="email" id="idEmail" class="form-control"/>  </div>  <div class="form-group">  <label for="idPassword">Password<span style="color:red">\*</span>:</label>  <input type="password" name="Password" id="idPassword" class="form-control" placeholder="Minimum eight and maximum 10 characters, at least one uppercase letter, one lowercase letter, one number and one special character:"/>  </div>  <div class="form-group">  <label for="idVerifyPassword">Verify Password<span style="color:red">\*</span>:</label>  <input type="password" name="verifyPassword" id="idVerifyPassword" class="form-control"/>  </div>  <input class="btn btn-block btn-primary" type="submit" value="Submit"/>  <input class="btn btn-block btn-danger" type="reset" id="btnReset" value="Reset"/>  </form>  </div>  <audio id="audio" src="audio/moneyChant.mp3"></audio>  <button id="b4">The Money Chant</button>  </body>  </html> |

#### RESULT

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# L5 Bootstrap Components & UI Kits

## Navs

### 1\_navs.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <body>  <ul class="nav">  <li class="nav-item">  <a class="nav-link active" href="#">Active</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Link</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Link</a>  </li>  <li class="nav-item">  <a class="nav-link disabled" href="#">Disabled</a>  </li>  </ul>  </body>  </html> |

#### RESULT

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### exercise1.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">    <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>    <script>  $(document).ready(function () {  // Attaches/Triggers the mouseover event  $(".nav-item").mouseover(function () {  $(this).addClass("bg-primary")  // Attaches/Triggers the mouseout event  }).mouseout(function () {    // Removes the class from .nav-item elements  $(this).removeClass("bg-primary");  });  });  </script>  </head>  <body>  <ul class="nav flex-column">  <!-- navigation items - all within same class (nav-item) -->  <li class="nav-item">  <a class="nav-link active" href="#">Home</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Profile</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Message</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Outlook</a>  </li>  </ul>  </body>  </html> |

#### RESULT

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### exercise2.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {    // Attaches/Triggers the mouseover event  $(".nav-item").mouseover(function () {    // Adds one or more class names to selected elements  $(this).addClass("bg-primary");    // Sets or returns the content of selected elements  $("#message").html(`This is a ${$(this).text()} page`);      // Attaches/Triggers the mouseover event  }).mouseout(function () {    // Removes the classes from .nav-item elements  $(this).removeClass("bg-primary");    // Sets the content of #message element  $("#message").html("");    });  });  </script>  </head>  <body>  <ul class="nav">  <li class="nav-item">  <a class="nav-link active" href="#">Home</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Profile</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Message</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Outlook</a>  </li>  </ul>  <div id="message"></div>  </body>  </html> |

#### RESULT

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## Navbar

### 2\_navbar.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">    <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>    </head>  <body>  <nav class="navbar navbar-expand-lg navbar-light bg-light">  <a class="navbar-brand" href="#">Navbar</a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent">  <span class="navbar-toggler-icon"></span>  </button>  <div class="collapse navbar-collapse" id="navbarSupportedContent">  <ul class="navbar-nav mr-auto">  <li class="nav-item active">  <a class="nav-link" href="#">Home</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Link</a>  </li>  <li class="nav-item dropdown">  <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" data-toggle="dropdown">  Dropdown  </a>  <div class="dropdown-menu">  <a class="dropdown-item" href="#">Action</a>  <a class="dropdown-item" href="#">Another action</a>  <div class="dropdown-divider"></div>  <a class="dropdown-item" href="#">Something else here</a>  </div>  </li>  </ul>  <form class="form-inline">  <input class="form-control" type="search" placeholder="Search">  <button class="btn btn-outline-success" type="submit">Search</button>  </form>  </div>  </nav>  </body>  </html> |

#### RESULT

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### exercise3.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">    <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>    </head>  <body>  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">  <!--Brand-->  <a class="navbar-brand" href="#">My World</a>  <!--Toggler/collapsible Button-->  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">  <span class="navbar-toggler-icon"></span>  </button>  <!--Navbar links-->  <div class="collapse navbar-collapse" id="collapsibleNavbar">  <ul class="navbar-nav ml-auto">  <li class="nav-item active">  <a class="nav-link" href="#">Home</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">About</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Services</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Contact</a>  </li>  </ul>  </div>  </nav>  </body>  </html> |

#### RESULT

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### exercise4.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  </head>  <body>  <nav class="navbar navbar-expand-lg navbar-light bg-warning">  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">  <span class="navbar-toggler-icon"></span>  </button>  <!-- Brand/logo -->  <a class="navbar-brand" href="#">  <img src="images/adventureCurious.jpg" alt="logo" style="width:40px;">  </a>  <!-- Links -->  <div class="collapse navbar-collapse" id="collapsibleNavbar">  <ul class="navbar-nav mr-auto">  <li class="nav-item active">  <a class="nav-link text-dark" href="#">Vegetables</a>  </li>  <!-- dropdown navigation list-->  <li class="nav-item dropdown">  <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">  Fruits  </a>  <!-- dropdown menu-->  <div class="dropdown-menu">  <a class="dropdown-item" href="#">Apple</a>  <a class="dropdown-item" href="#">Orange</a>  <a class="dropdown-item" href="#">Banana</a>  <div class="dropdown-divider"></div>  <a class="dropdown-item" href="#">Pineapple</a>  </div>  </li>  <!-- dropdown nagivation list-->  <li class="nav-item dropdown">  <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">  Meat  </a>  <!-- dropdown menu-->  <div class="dropdown-menu">  <a class="dropdown-item" href="#">Pork</a>  <a class="dropdown-item" href="#">Chicken</a>  <a class="dropdown-item" href="#">Fish</a>  </div>  </li>  </ul>  <span class="navbar-text">  <i>Hello friend!</i>  </span>  </div>  </nav>  </body>  </html> |

#### RESULT

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## Carousels

### 3\_carousels.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  });  </script>  <style>  .carousel-inner{  width:100%;  max-height: 500px;  }  </style>  </head>  <body>  <div id="myCarousel" class="carousel slide" data-ride="carousel">  <!-- Indicators -->  <ol class="carousel-indicators">  <li data-target="#myCarousel" data-slide-to="0" class="active"></li>  <li data-target="#myCarousel" data-slide-to="1"></li>  <li data-target="#myCarousel" data-slide-to="2"></li>  </ol>  <!-- Wrapper for slides -->  <div class="carousel-inner">  <div class="carousel-item active">  <img src="images/slider1.jpg">  </div>  <div class="carousel-item">  <img src="images/slider2.jpg">  </div>  <div class="carousel-item">  <img src="images/slider3.jpg">  </div>  </div>  <!-- Left and right controls -->  <a class="carousel-control-prev" href="#myCarousel" data-slide="prev">  <span class="carousel-control-prev-icon"></span>  </a>  <a class="carousel-control-next" href="#myCarousel" data-slide="next">  <span class="carousel-control-next-icon"></span>  </a>  </div>  </body>  </html> |

#### RESULT

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# L6 jQuery Widgets and Plugins

## jQuery Recap

### exercise1

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| x <!DOCTYPE html>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  alert("test");    $("form").submit(function () {  var animal = $(":radio:checked").val();  if (animal === $('bear')) {  $("#results").html("Your answer is correct.");  } else {  $("#results").html("Your answer is not correct. The correct answer is Bear");  }  return false;  });  });  </script>  </head>  <body>  <div class="container">  <h2>Test yourself!</h2>  <form>  <div class="form-group">  <label>Which animal below is a mammal?</label>  <div class="radio">  <label><input type="radio" name="optradio" value="goldfish" >Goldfish</label>  </div>  <div class="radio">  <label><input type="radio" name="optradio" value="turtle" >Turtle</label>  </div>  <div class="radio">  <label><input type="radio" name="optradio" value="bear" >Bear</label>  </div>  </div>  <input type="submit" id="btn1" class="btn btn-default">  </form>  <br/>  <span id="results"></span>  </div>  </body>  </html> |

#### RESULT

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### exercise2

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  alert("test");  $("[name=something]").hover(function () {  var text = $("[name=something]").val();  var message = text.toLowerCase();  $("[name=something]").val(message);  });  // $("[name=something]").change(function () {  // var text = $("[name=something]").val();  // var message = text.toLowerCase();  // $("[name=something]").val(message);  // });  });  </script>  </head>  <body>  <div class="container">  <h2>Enter Something</h2>  <form>  <div class="form-group">  <input type="text" name="something" class="form-control"/>  </div>  </form>  </div>  </body>  </html> |

#### RESULT

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## jQuery UI: Autocomplete, Date Picker, Slider & Star Rating

### exercise3

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| <!DOCTYPE HTML>  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <!-- ADDED-->  <link rel="stylesheet" href="css/jquery-ui.min.css">  <script src="js/jquery-ui.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  alert("test");  var availableConsoles = [  "PC",  "Playstation3",  "PSP",  "Nintendo Wii",  "XBox 360"  ];  // Autocomplete  $("#id\_consoles").autocomplete({  source: availableConsoles  });  // datepicker  $("#id\_date").datepicker({minDate: 2, maxDate: "+1M +10D"});  // slider  $("#slider").slider({  value: 0,  min: 0,  max: 20,  step: 1,  slide: function (event, ui) {  $("#num").val(ui.value);  }  });  // get the sllider values  $("#num").val($("#slider").slider("value"));  $.fn.raty.defaults.path = 'js/img';  $('#target-text-demo').raty({  cancel: false,  scoreName: 'rate\_us',  number: 3, //change to 5  score: 2  });  });  </script>  </head>  <body>  <form method="post" action="doProcess.php">  <div class="ui-widget">  <label for="id\_consoles">Choose game console: </label>  <input type="text" id="id\_consoles" name="consoles"/>  <br/><br/>  <label for="id\_date">Purchase date: </label>  <input id="id\_date" type="text" name="lastVisit"/>  <br/><br/>  <div id="target-text-demo"></div>  <br/><br/>  <label for="slider">Quantity <input type="text" id="num" readonly style="border:0; color:#f6931f; font-weight:bold; text-align:right" size="1"></label>  <div id="slider"></div>  <br/>  <input type="submit" value="Submit Info"/>  </div>  </form>  </body>  </html> |

#### RESULT

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## Form validation

### exercise4

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| <!DOCTYPE html>  <html>  <head>  <title>Exercise 4</title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <!-- ADDED-->  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/jquery.validate.min.js" type="text/javascript"></script>  <script src="js/additional-methods.min.js" type="text/javascript"></script>  <style>  form .error {  color: #ff0000;  }  </style>  <script>  $(document).ready(function () {  alert("test");  $("form").validate({  rules: {  firstName: {  required: true,  pattern: /^[0-9a-zA-Z]{5,}$/  },  username: {  required: true,  pattern: /^[0-9a-zA-Z]{6,}$/  }  },  messages: {  firstName: {  required: "Please enter your name",  pattern: "Fullname must contain at least 5 letters or digits"  },  username: {  required: "Please enter your username",  pattern: "Username must contain at least 6 letters or digits"  }  },  submitHandler: function () {  return true;  }  });  });  </script>  </head>  <body>  <div class="container">  <h2>Profile</h2>  <form id="defaultForm" method="post" action="target.php">  <div class="form-group">  <label >Full name</label>  <input type="text" class="form-control" name="firstName" placeholder="First name" required />  </div>  <div class="form-group">  <label >Username</label>  <input type="text" class="form-control" name="username" required/>  </div>  <input type="submit" class="btn btn-primary" value="Sign up"/>  </form>  </div>  </body>  </html> |

#### RESULT

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## Pie and Donut Charts

### exercise5

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| <?php  $labels = "'Manufacturing', 'Retail', 'Light Industry', 'Commuting', 'Orientation'";  $colours = "'red','orange','yellow','green','blue'";  $data = "10,20,30,40,50";  ?>  <!DOCTYPE html>  <html>  <head>  <title>Pie and Donut Charts</title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <!-- ADDED FILES-->  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/Chart.bundle.min.js" type="text/javascript"></script>  <script type="text/javascript">  $(document).ready(function () {  alert("test");  var pieChart = new Chart($("#pieChart"), {  type: 'pie',  data: {  datasets: [{  data: [<?php echo $data ?>],  backgroundColor: [<?php echo $colours ?>],  label: 'Feedback Summary'  }],  labels: [<?php echo $labels ?>]  },  options: {  responsive: true  }  });  var doughnutChart = new Chart($("#doughnutChart"), {  type: 'doughnut',  data: {  datasets: [{  data: [<?php echo $data ?>],  backgroundColor: [<?php echo $colours ?>],  label: 'Feedback Summary'  }],  labels: [<?php echo $labels ?>]  },  options: {  responsive: true,  legend: {  position: 'top',  },  title: {  display: true,  text: 'Chart.js Doughnut Chart'  },  animation: {  animateScale: true,  animateRotate: true  }  }  });  var barChart = new Chart($("#barChart"), {  type: 'bar',  data: {  datasets: [{  data: [<?php echo $data ?>],  backgroundColor: "lightblue",  label: 'Feedback Summary'  }],  labels: [<?php echo $labels ?>]  },  options: {  responsive: true  }  });  });  </script>  </head>  <body class="d-flex">  <h2>Pie chart example 1</h2>  <div id="canvas-holder" style="width:40%">  <canvas id="pieChart" />  </div></br>  <h2>Doughnut chart example 2</h2>  <div id="canvas-holder" style="width:40%">  <canvas id="doughnutChart" />  </div></br>  <h2>Bar chart example 3</h2>  <div id="canvas-holder" style="width:40%">  <canvas id="barChart" />  </div></br>  </body>  </html> |

#### RESULT

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## Datetime Picker

### exercise6

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| <!DOCTYPE HTML>  <html>  <head>  <link href="css/bootstrap.min.css" rel="stylesheet">  <link href="css/bootstrap-datetimepicker.min.css" rel="stylesheet" type="text/css"/>  <link href="css/fontawesome-all.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/moment.min.js"></script> <!-- Moment needed for datetimepicker -->  <script src="js/bootstrap.bundle.min.js"></script>  <script src="js/bootstrap-datetimepicker.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  $('#datetimepicker1').datetimepicker();  });  </script>  </head>  <body>  <form method="post" action="doProcess.php">  <div class="form-group">  <label class="control-label col-sm-2" for="datetimepicker1">Pick a date and time:</label>  <div class="col-sm-10">  <div class='input-group' >  <input type="text" class="form-control" name="date\_time" id="datetimepicker1">  <div class="input-group-append">  <span class="input-group-text" id="basic-addon2"><i class="fa fa-calendar"></i></span>  </div>  </div>  </div>  </div>  </form>  </body>  </html> |

#### RESULT

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## PS booklist

#### PS\_ bookList

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| <?php  include("dbFunctions.php");  // create query  $query = "SELECT \* FROM books, book\_categories  WHERE books.cat\_id = book\_categories.id  ORDER BY books.id";  // execute query  $result = mysqli\_query($link, $query) or  die("Error in query: $query. " . mysqli\_error($link));  ?>  <!DOCTYPE html>  <html>  <head>  <title>Bootstrap 4 Example</title>  <meta charset="utf-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <link rel="stylesheet" href="css/jquery-ui.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/Chart.bundle.min.js" type="text/javascript"></script>  <script src="js/jquery-ui.min.js" type="text/javascript"></script>  <script src="js/jquery.raty.min.js" type="text/javascript"></script>  <script type="text/javascript"></script>  <script>  $(document).ready(function () {    // The content of a field changes for #itemTypes element  $("#itemTypes").change(function () {    // returns the value attribute of the #itemTypes element  var changeType = $(this).val();    if (changeType == 0) {    // Shows the selected elements  $("tr").show();  } else {  $("tr").hide();  $(".header").show();  $("." + changeType).show();  }  });  });  </script>  </head>  <body>  <?php  include("PS\_navbar.php");  ?>  <div class="container">  <h3>Light Central Library: List of books</h3>  <form>  <div class="form-group">  <label for="itemTypes">Show:</label>  <select id="itemTypes" class="form-control">  <option value="0">  all categories  </option>  <option value="adventure">  adventure  </option>  <option value="children">  children  </option>  <option value="food">  food  </option>  <option value="self-development">  self-development  </option>  </select>  </div>  </form>  <table id="bookTable" class="table table-hover table-bordered">  <tr class="header">  <th>Book Title</th>  <th>Pages</th>  <th>Category</th>  </tr>  <?php  while ($row = mysqli\_fetch\_assoc($result)) {  $id = $row['id'];  $title = $row['title'];  $num\_pages = $row['pages'];  $category = $row['cat\_name'];  ?>  <tr class="<?php echo $category; ?>">  <td>  <?php echo $title; ?>  </td>  <td>  <?php echo $num\_pages; ?>  </td>  <td>  <?php echo $category; ?>  </td>  </tr>  <?php  } // end while loop  ?>  </table>  </div>  </body>  </html> |

##### RESULT

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#### PS\_feedback

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| <!DOCTYPE html>  <html>  <head>  <title>Give Feedback</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <link rel="stylesheet" href="css/jquery-ui.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/Chart.bundle.min.js" type="text/javascript"></script>  <script src="js/jquery-ui.min.js" type="text/javascript"></script>  <script src="js/jquery.raty.min.js" type="text/javascript"></script>  <script type="text/javascript"></script>  <script>  $(document).ready(function () {  // javascript array  var areaname = ["Ang Mo kio", "Bugis", "ChinaTown", "Jurong East", "Paya Lebar", "CityHall"];  // autocomplete  $("#id\_area").autocomplete({  source: areaname  });  // datepicker  $("#id\_last\_visit").datepicker({minDate: -730, maxDate: "+0D", dateFormat: "dd/mm/yy"});  $.fn.raty.defaults.path = 'js/img';  // Star Rating  $('#id\_rating').raty({  cancel: false,  scoreName: 'rate\_us',  number: 5, //change to 5  score: 2  });  // validation of form  $("form").validate({  rules: {  id\_name: {  required: true,  minlength: 2  },  area: {  required: true  },  vistor\_comments: {  required: true,  maxlength: 200  },  last\_visit: {  required: true,  pattern: /^[0-9]{2}\/[0-9]{2}\/[0-9]{4}$/  }  },  // messages  messages: {  id\_name: {  required: "Please enter your name",  minlength: "Please enter at least 2 characters"  },  area: {  required: "Please enter your area."  },  vistor\_comments: {  required: "Please enter your comments",  maxlength: "Please enter at most 200 characters"  },  last\_visit: {  required: "Please enter your last vist",  pattern: "Please enter in the correct format DD/MM/YYYY"  }  },  // ask tcher  submitHandler: function () {  return true;  }  });  });  </script>  </head>  <body>  <?php  include("PS\_navbar.php");  ?>  <div class="container">  <h3>Light Central Library was opened on 4 February 2013<br/>  Please help us improve by sharing your feedback!<br/>  </h3>  <form id="defaultForm" action="doFeedback.php" method="post">  <div class="form-group">  <label for="id\_name">Name:</label>  <input type="text" class="form-control" id="id\_name" name="visitor\_name" required>  </div>  <div class="form-group">  <label for="id\_area">Area:</label>  <input type="text" class="form-control" id="id\_area" name="area" required pattern="\w{2,}">  </div>  <div class="form-group">  <label for="id\_last\_visit">Last Visit:</label>  <input id="id\_last\_visit" type="text" class="form-control" name="last\_visit" required pattern="[0-9]{2}/[0-9]{2}/[0-9]{4}">  </div>  <div class="form-group">  <label for="id\_num">Average books borrowed per visit</label>  <input id="id\_num" type="text" class="form-control" name="num\_books">  </div>  <div class="form-group">  <label for="id\_rating">Rate Us:</label>  <div id="id\_rating" class="target-demo"></div>  <input type="radio" name="rate\_us"/>1  <input type="radio" name="rate\_us"/>2  <input type="radio" name="rate\_us"/>3  <input type="radio" name="rate\_us"/>4  <input type="radio" name="rate\_us"/>5  </div>  <div class="form-group">  <label for="id\_comments">Comments:</label>  <textarea id="id\_comments" class="form-control" name="visitor\_comments" rows="5" cols="20"></textarea>  </div>  <button type="submit" class="btn btn-default">Submit</button>  </form>  </div>  </body>  </html> |

##### RESULT

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#### PS\_navbar

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| <!-- Navigational Bar -->  <nav class="navbar navbar-expand-lg navbar-light bg-light" role="navigation">  <a class="navbar-brand" href="#">Light Central Library</a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">  <span class="navbar-toggler-icon"></span>  </button>  <div class="collapse navbar-collapse" id="navbarSupportedContent">  <ul class="nav navbar-nav">  <li class="nav-item"><a class="nav-link" href="PS\_index\_bookList.php">Book List</a></li>  <li class="nav-item"><a class="nav-link" href="PS\_feedback.php">Give Feedback</a></li>  <li class="nav-item"><a class="nav-link" href="PS\_summary.php">Summary</a></li>  </ul>  </div>  </nav> |

##### RESULT

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#### PS\_summary

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| <?php  include("dbFunctions.php");  // create query  $queryList = "SELECT \* FROM feedbacks ORDER BY last\_visit desc";  // execute query  $resultList = mysqli\_query($link, $queryList) or  die("Error in query: $query. " . mysqli\_error($link));  $query = "SELECT rating, COUNT(rating) FROM feedbacks GROUP BY rating";  // execute query  $result = mysqli\_query($link, $query) or die("Error in query: $query. " . mysqli\_error($link));  //create an array  $total\_ratings = array(1 => 0, 2 => 0, 3 => 0, 4 => 0, 5 => 0);  while ($row = mysqli\_fetch\_array($result)) {  $total\_ratings[$row['rating']] = $row['COUNT(rating)'];  }  //populate the variables below  $labels = "";  $colours = "";  $data = "";  ?>  <!DOCTYPE HTML>  <html>  <head>  <title>Pie and Donut Charts</title>  <link href="css/bootstrap.min.css" rel="stylesheet">  </head>  <body>  <?php  include("PS\_navbar.php");  ?>  <div class="container">  <h3>Rating Distribution</h3>  <?php  // php loop & conditonal statements  for ($i = 1; $i <= count($total\_ratings); $i++) {  if ($total\_ratings[$i] == 1) {  echo "There is 1 user who rated the library " . $i;  } else {  echo "There are " . $total\_ratings[$i] . " users who rated the library " . $i;  }  echo "<br />";  }  ?>  </div>  </body>  </html> |

##### RESULT

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# L7 AJAX Introduction with jQuery

### 1a\_getFruit.php

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| <?php  $fruit['fruit\_name'] = "watermelon";  $fruit['image'] = "melon.jpg";  $fruit['description'] = "This fruit is green and red in colour";  echo json\_encode($fruit);  ?> |

##### RESULT

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### 1b\_getColour.php

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| <?php  $colours['0'] = "Orange";  $colours['1'] = "Green";  $colours['2'] = "Blue";  $colours['3'] = "Yellow";  $randomNo = mt\_rand(0,3);  $response['colour'] = $colours[$randomNo];  $response['date'] = date("d-m-Y");  echo json\_encode($response);  ?> |

##### RESULT

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### 1c\_getCircleResults

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| <?php  $type = $\_GET['type'];  $radius = $\_GET['radius'];  $result = 0;  if ($type == "area") {  $result = 3.142 \* $radius \* $radius;  } else {  $result = 3.142 \* 2 \* $radius;  }  $response['result'] = number\_format($result, 3);  echo json\_encode($response);  ?> |

##### RESULT

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### 1d\_getCalorieResults.php

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| <?php  if (isset($\_GET['age']) && isset($\_GET['gender']) && isset($\_GET['height']) && isset($\_GET['weight'])) {  $age = $\_GET['age'];  $gender = $\_GET['gender'];  $height = $\_GET['height'];  $weight = $\_GET['weight'];  $bmr = (10 \* $weight) + (6.25 \* $height) - (5 \* $age);  if ($gender == "M") {  $bmr += 5;  } else {  $bmr -= 161;  }  $response["result"] = number\_format($bmr, 2);  echo json\_encode($response);  }  ?> |

##### RESULT

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### 2a\_getCategories.php

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| <?php  include('dbFunctions.php');  $categories = Array();  // Step1: Write the select query to retrieve data from the flower\_category table  $query = "SELECT id, name FROM flower\_categories ORDER BY name";  // Step2: Execute the query using mysqli\_query function  $result = mysqli\_query($link, $query) or die('Error querying database');  // Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows and store into $categories  while ($row = mysqli\_fetch\_assoc($result)) {  $categories[] = $row;  }  // Step4: Use json\_encode function to encode the array into JSON format and echo the output  echo json\_encode($categories);  ?> |

##### RESULT

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### 2b\_getFlowers.php

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| <?php  // link - http://localhost/C273\_L07Ajax/2b\_getFlowers.php?cat\_id=1  include('dbFunctions.php');  $flowers = Array();  $cat\_id = $\_GET["cat\_id"];  // Step1: Write the select query to retrieve data from the flower\_category table  $query = "SELECT id, name FROM flowers WHERE cat\_id = $cat\_id";  // Step2: Execute the query using mysqli\_query function  $result = mysqli\_query($link, $query) or die('Error querying database');  // Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows and store into $categories  while ($row = mysqli\_fetch\_assoc($result)) {  $flowers[] = $row;  }  // Step4: Use json\_encode function to encode the array into JSON format and echo the output  echo json\_encode($flowers);  ?> |

##### RESULT

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### 2c\_getFlowerDetails.php

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| <?php  // link - http://localhost/C273\_L07Ajax/2c\_getFlowerDetails.php?f\_id=1  include('dbFunctions.php');  $f\_id = $\_GET['f\_id'];  // Step1: Write the select query to retrieve data from the flower\_category table  $query = "SELECT description, picture FROM flowers WHERE ID = $f\_id";  // Step2: Execute the query using mysqli\_query function  $result = mysqli\_query($link, $query) or die('Error querying database');  // Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows and store into $categories  $row = mysqli\_fetch\_assoc($result);  $details['description'] = $row['description'];  $details['picture'] = $row['picture'];  // Step4: Use json\_encode function to encode the array into JSON format and echo the output  echo json\_encode($details);  ?> |

##### RESULT

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### 3a\_getStudents.php

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| <?php  // link - http://localhost/C273\_L07Ajax/3a\_getStudents.php  include('dbFunctions.php');  // Step1: Write the select query to retrieve data from the student table  $query = "SELECT student\_id, first\_name, last\_name FROM student ORDER BY student\_id ASC";  // Step2: Execute the query using mysqli\_query function  $result = mysqli\_query($link, $query) or die('Error querying database');  // Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows and store into $categories  while ($row = mysqli\_fetch\_assoc($result)) {  $student[] = $row;  }  mysqli\_close($link);  // Step4: Use json\_encode function to encode the array into JSON format and echo the output  echo json\_encode($student);  ?> |

##### RESULT

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### 3b\_getStudentsByModule.php

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| <?php  // link - http://localhost/C273\_L07Ajax/3b\_getStudentsByModule.php?module\_code=c207  include('dbFunctions.php');  $moduleCode = $\_GET['module\_code'];  // Step1: Write the select query to retrieve data from the table  $query = "SELECT s.student\_id, s.first\_name, s.last\_name, a.class FROM student s, allocation a WHERE s.student\_id = a.student\_id AND a.module\_code = '$moduleCode'";  // Step2: Execute the query using mysqli\_query function  $result = mysqli\_query($link, $query) or die('Error querying database');  // Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows and store into $result  while ($row = mysqli\_fetch\_assoc($result)) {  $student[] = $row;  }  mysqli\_close($link);  // Step4: Use json\_encode function to encode the array into JSON format and echo the output  echo json\_encode($student);  ?> |

##### RESULT

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### 3c\_getStudentDetails.php

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| **<?php**  **include('dbFunctions.php');**  **// link - http://localhost/C273\_L07Ajax/3c\_getStudentDetails.php?student\_id=1111111**  **$studentID = $\_GET['student\_id'];**  **// Step1: Write the select query to retrieve data from the table**  **$query = "SELECT \* FROM student WHERE student\_id = '$studentID'";**  **// Step2: Execute the query using mysqli\_query function**  **$result = mysqli\_query($link, $query) or die('Error querying database');**  **// Step3: Use mysqli\_fetch\_assoc function to retrieve the table rows**  **$row = mysqli\_fetch\_assoc($result);**  **mysqli\_close($link);**  **// Step4: Use json\_encode function to encode the array into JSON format and echo the output**  **echo json\_encode($row);**  **?>** |

##### RESULT

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### 4a\_showFruit.html

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| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Exercise 1a</title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",  //Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "http://localhost/C273\_L07Ajax/1a\_getFruit.php",  cache: false,  dataType: "JSON",  // Step 2: Retrieve data from object and display using jQuery selector  success: function (response) {  $('#fruitName').html(response.fruit\_name);  $('#description').html(response.description);  $('#fruitImage').html(response.image);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <div id="fruitName">Fruit Name</div>  <div id="description">Description</div>  <div id="fruitImage">Image</div>  </body>  </html> |

##### RESULT

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### 4b\_showColour.html

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| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Example 1</title>  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",  //Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "http://localhost/C273\_L07Ajax/1b\_getColor.php",  cache: false,  dataType: "JSON",  // Step 2: Retrieve data from object and display using jQuery selector  success: function (response) {  $('#container').html(data.color);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <div id="container">Default text in container</div>  </body>  </html> |

##### RESULT

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### 4c\_circle\_calculator.html

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>TODO supply a title</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" href="css/all.css">  <link rel="stylesheet" href="css/bootstrap.min.css">  <script src="js/jquery.min.js"></script>  <script src="js/bootstrap.bundle.min.js"></script>  <script>  $(document).ready(function () {  $("form").submit(function () {  var radius = $("#idRad").val(); //parseFloat($("[name=radius]").val());  var type = $(":radio:checked").val();  console.log(radius);  $("form").validate({  rules: {  radius: {  required: true,  pattern: /^\d+(\.\d{1,2})?$/  },  type: {  required: true,  pattern: /^[0-9a-zA-Z]{6,}$/  }  },  messages: {  radius: {  required: "Number is required",  pattern: "Invalid number"  },  type: {  required: "Type is required",  }  },  submitHandler: function () {  return true;  }  });  $.ajax({  type: "GET",  //Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "http://localhost/C273/p07/1c\_getCircleResults.php",  data: "radius=" + radius + "&type=" + type,  cache: false,  dataType: "JSON",  // Step 2: Retrieve data from object and display using jQuery selector  success: function (response) {  $('#results').html(response.result);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  return false;  });  });  </script>  </head>  <body>  <div class="container">  <h2>Circle Calculator</h2>  <form id="defaultForm" method="post">  <div class="form-group">  <label for="idRad">Radius</label>  <input type="text" class="form-control" id="idRad" name="radius">  </div>  <div class="form-group">  <label>Area/Circumference</label>  <div class="form-check form-check-inline">  <input class="form-check-input" type="radio" id="inlineCheckbox1" name="type" value="area">  <label class="form-check-label" for="inlineCheckbox1">Area</label>  </div>  <div class="form-check form-check-inline">  <input class="form-check-input" type="radio" id="inlineCheckbox2" name="type" value="circumference">  <label class="form-check-label" for="inlineCheckbox2">Circumference</label>  </div>  </div>  <input type="submit" class="btn btn-primary" value="Submit"/>  <input type="reset" class="btn btn-default" id="btnReset" value="Reset"/>  </form>  <br/>  <p id="results"></p>  </div>  </body>  </html> |

##### RESULT

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# L8 AJAX, PHP & MySQL

## 1a\_showStudentsInTable

### RESULT

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### CODE

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| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Example 1a</title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",  // Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "getStudents.php",  cache: false,  dataType: "JSON",  success: function (response) {  // Step 2: Retrieve multiple records from object and display using jQuery selector  var message = "<tr><th>Student ID</th><th>First Name</th><th>Last Name</th></tr>";  for (i = 0; i < response.length; i++) {  message += "<tr><td>" + response[i].student\_id + "</td>"  + "<td>" + response[i].first\_name + "</td>"  + "<td>" + response[i].last\_name + "</td></tr>";  }  $("#studentTable").html(message);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <table border="1" id="studentTable"></table>  </body>  </html> |

### PHP

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## 1b\_showModulesInTable

### RESULT

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### CODE

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| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Exercise 1b</title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",  // Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "getModules.php",  cache: false,  dataType: "JSON",  success: function (response) {  var message = "<thead><tr><th>Module Code</th><th>Module Name</th></tr></thead>";  for (i = 0; i < response.length; i++) {  message += "<tr><td>" + response[i].module\_code + "</td>"  + "<td>" + response[i].module\_name + "</td></tr>";  }  $("#moduleTable").html(message);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <table id="moduleTable" class="table table-striped table-sm table-bordered">  </table>  </body>  </html> |

### PHP

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| --- |
| <?php  include "dbFunctions.php";  // SQL query returns multiple database records.  $query = "SELECT \* FROM modules order by module\_code";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $modules[] = $row;  }  mysqli\_close($link);  echo json\_encode($modules);  ?> |

## 1c\_showModulesInSelectList

### RESULT

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### CODE

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| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Exercise 1c</title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",  url: "getModules.php",  cache: false,  dataType: "JSON",    success: function (response) {  var message = "<select><option></option>";  for (i = 0; i < response.length; i++) {  message += "<option>" + response[i].module\_name + "</option></select>";  }  $("#idModule").html(message);  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <br/>  <select id="idModule" class="form-control-sm">  </select>  </body>  </html> |

### PHP

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| --- |
| <?php  include "dbFunctions.php";  // SQL query returns multiple database records.  $query = "SELECT \* FROM modules order by module\_code";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $modules[] = $row;  }  mysqli\_close($link);  echo json\_encode($modules);  ?> |

## 1d\_showNutritionInAccordion

### RESULT

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### CODE

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| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>Exercise 1d</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="css/jquery-ui.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/jquery-ui.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  $.ajax({  type: "GET",    // Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "getNutrition.php",  cache: false,  dataType: "JSON",  success: function (response) {  var message = "";  // Step 2: Retrieve data from object and display using jQuery selector  for (i = 0; i < response.length; i++) {  message += "<h3>" + response[i].food + "<h3>"  + "<div><p>Calories: " + response[i].calories + "</p>"  + "<p>Fat: " + response[i].fat + "</p>"  + "<p>Protein: " + response[i].protein + "</p>"  + "<p>Carbs: " + response[i].carbs + "</p>"  + "<p>Fiber" + response[i].fiber + "</p></div>";  }  $("#accordion").html(message);  $("#accordion").accordion();  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  </script>  </head>  <body>  <div id="accordion">  </div>  </body>  </html> |

### PHP

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| --- |
| <?php  include "dbFunctions.php";  // SQL query returns multiple database records.  $query = "SELECT \* FROM nutrition order by id";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $nutrition[] = $row;  }  mysqli\_close($link);  echo json\_encode($nutrition);  ?> |

## 2a\_showStudentsInTable

### RESULT

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### CODE

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| --- |
| <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Exercise 2a</title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <script>  $(document).ready(function () {  $("button").click(function () {  var moduleCode = $("#idModuleCode").val();  $.ajax({  type: "GET",  // Step 1: AJAX initiates Http GET request and retrieves response as JSON message  url: "getStudentsByModule.php",  data: "module\_code=" + moduleCode,  cache: false,  dataType: "JSON",  // Step 2: Retrieve data from object and display using jQuery selector  success: function (response) {  var message = "";  for (i = 0; i < response.length; i++) {  message += "<tr><td>" + response[i].student\_id + "</td>"  + "<td>" + response[i].class + "</td>"  + "<td>" + response[i].first\_name + "</td>"  + "<td>" + response[i].last\_name + "</td></tr>";  }  $("#studentTable").html(message);  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  });  </script>  </head>  <body>  <input type="text" id="idModuleCode"/><button>Search</button>  <br/><br/>  <table border="1" id="studentTable"></table>  </body>  </html> |

### PHP

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| <?php  include "dbFunctions.php";  if (isset($\_GET['module\_code'])) {  $moduleCode = $\_GET['module\_code'];    // SQL query returns multiple database records.  $query = "Select s.student\_id, s.first\_name, s.last\_name, a.class  From student s, allocation a  Where s.student\_id = a.student\_id  And a.module\_code = '$moduleCode'  ";    $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $student[] = $row;  }  mysqli\_close($link);  echo json\_encode($student);  }  ?> |

## 2b\_searchStudentDetails

### RESULT

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### CODE

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| --- |
| <?php  include("dbFunctions.php");  $student = array();  $query = "SELECT \* FROM student order by student\_id";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $student[] = $row;  }  mysqli\_close($link);  ?>  <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title></title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script>  $(document).ready(function () {  $("#idStudent").change(function () {  var studentID = $(this).val()    $.ajax({  type: "GET",  url: "getStudentDetails.php",  data: "student\_id=" + studentID,  cache: false,  dataType: "JSON",    success: function (response) {  $(".studentid").html(response.student\_id);  $(".firstname").html(response.first\_name);  $(".lastname").html(response.last\_name);  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  });  });  </script>    </head>  <body>  <div class="container">  <label for="idStudent">Select Student ID:</label>  <select id="idStudent" class="form-control-sm">  <option value="">Please select</option>  <?php  for ($i = 0; $i < count($student); $i++) {  ?>  <option value="<?php echo $student[$i]['student\_id']; ?>"><?php echo $student[$i]['student\_id']; ?></option>  <?php } ?>  </select>  <br/><br/>  <div class="row">  <div class="col-md-3">Student ID:</div>  <div class="col-md-9 studentid"></div>  <div class="col-md-3">First Name:</div>  <div class="col-md-9 firstname"></div>  <div class="col-md-3">Last Name:</div>  <div class="col-md-9 lastname"></div>  </div>  </div>  </body>  </html> |

### PHP

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| --- |
| <?php  include "dbFunctions.php";  if (isset($\_GET['student\_id'])) {  $studentID = $\_GET['student\_id'];  $student = array();  $query = "SELECT \* FROM student where student\_id = $studentID";  $result = mysqli\_query($link, $query);  $row = mysqli\_fetch\_assoc($result);  if (!empty($row)) {  $student = $row;  }  mysqli\_close($link);  echo json\_encode($student);  }  ?> |

## 2c\_searchStudentByModule

### RESULT

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### CODE

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| <?php  include("dbFunctions.php");  $modules = array();  //write the php code to retrieve the data from the modules table  $query = "SELECT \* FROM modules order by module\_code";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $modules[] = $row;  }  $student = array();  $query2 = "SELECT \* FROM student order by student\_id";  $result2 = mysqli\_query($link, $query2);  while ($row2 = mysqli\_fetch\_assoc($result2)) {  $student[] = $row2;  }  mysqli\_close($link);  ?>  <!DOCTYPE HTML>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title></title>  <script type="text/javascript" src="js/jquery-3.5.1.min.js"></script>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script type="text/javascript">    $(document).ready(function () {  //Attach a change listener to "Select Module" dropdown list  //make ajax call to getStudentsByModule.php passing in the selected module code  //load the student ids onto the "Select Student" dropdown list    $("#idModule").change(function () {  var modulecode = $(this).val();  $.ajax({  type: "GET",  url: "getStudentsByModule.php",  data: "module\_code=" + modulecode,  cache: false,  dataType: "JSON",    success: function (response) {  var message = "";  message += "<option value=\"\">Please select</option>"  for (i = 0; i < response.length; i++) {  message += "<option value=" + response[i].student\_id + ">"  + response[i].student\_id + "</option>";  }  $("#idStudent").html(message);  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  })  //Attach a change listener to "Select Student" dropdown list  //make ajax call to getStudentDetails.php passing in the selected student id  //display the student details onto the grid below  $("#idStudent").change(function () {  var studentID = $(this).val();  $.ajax({  type: "GET",  url: "getStudentDetails.php",  data: "student\_id=" + studentID,  cache: false,  dataType: "JSON",    success: function (response) {  $(".studentid").html(response.student\_id);  $(".firstname").html(response.first\_name);  $(".lastname").html(response.last\_name);  },    error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  })  });  </script>  </head>  <body>  <div class="container">  <form>  <div class="form-group">  <label for="idModule">Select Module:</label>  <select id="idModule" class="form-control-sm">  <option value="">Please select</option>  <?php  for ($i = 0; $i < count($modules); $i++) {  ?>  <option value="<?php echo $modules[$i]['module\_code']; ?>"><?php echo $modules[$i]['module\_name']; ?></option>  <?php } ?>  </select>  </div>  <div class="form-group">  <label for="idStudent">Select Student ID:</label>  <select id="idStudent" class="form-control-sm">  </select>  </div>  <div class="form-group row">  <div class="col-md-3">Student ID:</div>  <div class="col-md-9 studentid"></div>  <div class="col-md-3">First Name:</div>  <div class="col-md-9 firstname"></div>  <div class="col-md-3">Last Name:</div>  <div class="col-md-9 lastname"></div>  </div>  </form>  </div>  </body>  </html> |

### PHP

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| <?php  include "dbFunctions.php";  if (isset($\_GET['student\_id'])) {  $studentID = $\_GET['student\_id'];  $student = array();  $query = "SELECT \* FROM student where student\_id = $studentID";  $result = mysqli\_query($link, $query);  $row = mysqli\_fetch\_assoc($result);  if (!empty($row)) {  $student = $row;  }  mysqli\_close($link);  echo json\_encode($student);  }  ?> |

## 2d\_searchNutrition

### RESULT

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### CODE

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| --- |
| <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <link href="css/jquery-ui.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script src="js/jquery-ui.min.js" type="text/javascript"></script>  <script>    $(document).ready(function () {  //make ajax call to getNutrition.php  //load the results into a javascript array  //initialise autocomplete plugin with the array and attach it to #search  $.ajax({  type: "GET",  url: "getNutrition.php",  cache: false,  dataType: "JSON",  success: function (response) {  var nutritionList = [];  for (i = 0; i < response.length; i++) {  nutritionList.push(response[i].food);  }  $("#search").autocomplete({  source: nutritionList  });  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  $("#searchForm").submit(function (evt) {  var food = $("#search").val();  $.ajax({  type: "GET",  url: "getNutritionByFood.php",  cache: false,  data: "food=" + food,  dataType: "JSON",  success: function (response) {  var message =  "<h4>" + response[0].food + "</h4>"  + "<p><b>Calories:</b> " + response[0].calories + "<br/>"  + "<b>Fat</b> " + response[0].fat + "<br/>"  + "<b>Protein</b> " + response[0].protein + "<br/>"  + "<b>Carbs</b> " + response[0].carbs + "<br/>"  + "<b>Fiber</b> " + response[0].fiber + "</p>";  $("#result").html(message);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  return false  })  })  </script>  </head>  <body>  <div class="container">  <h1>Search the nutritional value by food</h1>  <form class="form-inline" method="post" id="searchForm">  <div class="form-group">  <label for="search">Food: </label>  <input type="text" class="form-control" id="search">  </div>  <button type="submit" class="btn btn-default">Search</button>  </form>  <div id="result"></div>  </div>  </body>  </html> |

### PHP

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| <?php  include "dbFunctions.php";  $food = $\_GET['food'];  // SQL query returns multiple database records.  $query = "SELECT \* FROM nutrition WHERE food = '$food'";  $result = mysqli\_query($link, $query);  while ($row = mysqli\_fetch\_assoc($result)) {  $nutrition[] = $row;  }  mysqli\_close($link);  echo json\_encode($nutrition);  ?> |

## 3a\_showPostsPagination

### RESULT

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### CODE

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| <?php  include("dbFunctions.php");  $limit = 5; //the number of rows to display per page  $query = "SELECT count(\*) FROM posts";  $result = mysqli\_query($link, $query);  $row = mysqli\_fetch\_row($result);  $totalRows = $row[0];  $numPages = ceil($totalRows / $limit); //round up integer  mysqli\_close($link);  ?>  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title></title>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  //call getPosts() to load the first page  getPosts("1");    //Attach a click listener to all page links in the pagination  $(".page-link").click(function () {  var page = parseInt($(this).html());  getPosts(page);  })    //retrieve the page number that the user clicked  //call getPosts() passing in the page number  //AJAX call to getPostsByPage.php passing in the page and limit as parameters  function getPosts(page) {  $.ajax({  type: "GET",  url: "getPostsByPage.php",  cache: false,  data: "page=" + page + "&limit= <?php echo $limit ?>",  dataType: "JSON",  success: function (response) {  var message = "";  alert("http://localhost/P08/getPostsByPage.php?" + "page=" + page + "&limit= <?php echo $limit ?>");  for (i = 0; i < response.length; i++) {  message += "<tr><td>" + response[i].title + "</td>"  + "<td>" + response[i].content + "</td></tr>";  }  $("tbody").html(message);  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  }  });  </script>  </head>  <body>  <div class="container">  <h3>Bootstrap Pagination AJAX Example</h3>  <table class="table table-striped">  <thead>  <tr><th>Title</th><th>Content</th></tr>  </thead>  <tbody></tbody>  </table>  <nav>  <ul class="pagination">  <?php for ($i = 1; $i <= $numPages; $i++) { ?>  <li class="page-item"><a class="page-link" href="#"><?php echo $i ?></a></li>  <?php } ?>  </ul>  </nav>  </div>  </body>  </html> |

### PHP

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| <?php  include('dbFunctions.php');  $page = $\_GET['page'];  $limit = $\_GET['limit'];  $startId = ($page - 1) \* $limit;  $sqlQuery = "SELECT id,title,substr(content,1,300) content FROM posts WHERE id > '" . $startId . "' ORDER BY id LIMIT $limit";  $result = mysqli\_query($link, $sqlQuery);  $response = array();  while ($row = mysqli\_fetch\_assoc($result)) {  $response [] = $row;  }  echo json\_encode($response);  ?> |

## 3b\_rateModules

### RESULT

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### CODE

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| <?php  include("dbFunctions.php");  $studentId = 111111; //for a particular student, you can read this from $\_SESSION as well  $query = "select \* from modules";  $result = mysqli\_query($link, $query);  $modules = array();  while ($row = mysqli\_fetch\_assoc($result)) {  //retrieves total ratings for each module  $query1 = "SELECT \* FROM ratings WHERE module\_code = '" . $row["module\_code"] . "'";  $result1 = mysqli\_query($link, $query1);  $row['totalRating'] = mysqli\_num\_rows($result1);  //retrieves user's ratings of modules  $query2 = "SELECT rating FROM ratings WHERE module\_code = '" . $row["module\_code"] . "' and student\_id=$studentId";  $result2 = mysqli\_query($link, $query2);  if (mysqli\_num\_rows($result2) > 0) {  $row2 = mysqli\_fetch\_assoc($result2);  $row['rating'] = $row2['rating'];  } else {  $row['rating'] = 0;  }  $modules [] = $row;  }  mysqli\_close($link);  ?>  <!DOCTYPE html>  <html>  <head>  <meta name="viewport" content="width=device-width, initial-scale=1">  <title>Rate your modules</title>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery.raty.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  $.fn.raty.defaults.path = 'js/img';  <?php  for ($i = 0; $i < count($modules); $i++) {  ?>  $('#ratings<?php echo $modules[$i]['module\_code'] ?>').raty({  cancel: false,  number: 5,  score: <?php echo $modules[$i]['rating'] ?>,  click: function (data) {  $.ajax({  type: "GET",  url: "insertRating.php",  data: "rating=" + data + "&student\_id=<?php echo $studentId ?>&module\_code=<?php echo $modules[$i]['module\_code'] ?>",  cache: false,  dataType: "JSON",  success: function (response) {  },  error: function (obj, textStatus, errorThrown) {  console.log("Error " + textStatus + ": " + errorThrown);  }  });  }  });  <?php }  ?>  });  </script>  </head>  <body>  <div class="container">  <div class="text-center mb-5">  <h2>Rate your modules</h2>  </div>  <?php  for ($i = 0; $i < count($modules); $i++) {  ?>  <div class="card block-style-03 mb-5">  <div class="card-body">  <h4 class="text-info"><?php echo $modules[$i]['module\_name'] ?></h4>  <div id="ratings<?php echo $modules[$i]['module\_code'] ?>"></div>  <p class="text-muted mt-3"><em>Total Reviews: <?php echo $modules[$i]['totalRating'] ?></em></p>  <p><?php echo $modules[$i]['description'] ?></p>  </div>  </div>  <?php } ?>  </div>  </body>  </html> |

### PHP

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| <?php  include ('dbFunctions.php');  $response['status'] = 0;  if (isset($\_GET["rating"], $\_GET["module\_code"], $\_GET["student\_id"])) {  $studentId = $\_GET["student\_id"];  $moduleCode = $\_GET["module\_code"];  $rating = $\_GET["rating"];  $checkIfExistQuery = "select \* from ratings where student\_id = $studentId and module\_code = '$moduleCode'";  if ($result = mysqli\_query($link, $checkIfExistQuery)) {  $rowcount = mysqli\_num\_rows($result);  }  $query = "UPDATE ratings set rating=$rating where student\_id=$studentId and module\_code='$moduleCode'";  if ($rowcount == 0) {  $query = "INSERT INTO ratings(student\_id,module\_code, rating) VALUES ('$studentId','$moduleCode','$rating') ";  }    $result = mysqli\_query($link, $query);  $response['status'] = 1;  } else {  $response['error'] = "Missing parameters";  }  echo json\_encode($response); |