# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 07: Express JS

**Date: 17 October, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

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**BSCS-7A**

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# Lab 07: Express JS

**Lab Tasks**

**Task 1:** Create Index.html file in the root folder of your application and write the HTML FORM POST method code in it. Modify server.js to handle home page requests as well as the input sent by the HTML form.

**Hint:** To handle HTTP POST request in Express.js version 4 and above, you need to install middleware module called body-parser. The middleware was a part of Express.js earlier but now you have to install it separately. This body-parser module parses the JSON, buffer, string and url encoded data submitted using HTTP POST request. Install body-parser using NPM as shown below.

**Task 2:** Create a file uploader form in an html file. This form has method attribute set to POST and enctype attribute is set to multipart/form-data. Modify server.js to handle home page requests as well as file upload.

**Task 3:** By using the Pug templating engine create an HTML registration form.

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| Solution |
| Task1 Code:  Server.js  var express = require('express');  var app = express();  path = require('path');  var bodyParser = require('body-parser');  var urlencodedParser = bodyParser.urlencoded({ extended: false })  app.set('view engine', 'pug');  app.set('views','./views');  app.get('/', function (req, res) {  res.sendFile(path.join(\_\_dirname+'/index.html'));  })  app.post('/submit', urlencodedParser, function (req, res) {  response = {  firstname:req.body.firstname,  lastname:req.body.lastname  };  console.log(response);  res.write("First name: "+response.firstname);  res.write("\nLast name: "+response.lastname);  res.end();  })  app.get('/first\_template', function(req, res){  res.render('first\_view');  });  var server = app.listen(8081, function () {  var host = server.address().address  var port = server.address().port    console.log("//%s:%s", host, port)  })  Index.html:  <html>  <body>  <h2>Task 1</h2>  <form action = "/submit" method="post">  First name:<br>  <input type="text" name="firstname" >  <br>  Last name:<br>  <input type="text" name="lastname" >  <br><br>  <input type="submit" value="Submit">  </form>  </body>  </html>  Task1 Output Screenshot:        Task2 Code:  Server.js  var app = express();  path = require('path');  var bodyParser = require('body-parser');  var urlencodedParser = bodyParser.urlencoded({ extended: false })  app.set('view engine', 'pug');  app.set('views','./views');  app.get('/', function (req, res) {  res.sendFile(path.join(\_\_dirname+'/index.html'));  })  app.post('/submit', urlencodedParser, function (req, res) {  response = {  file:req.body.file  };  console.log(response);  res.write("File uploaded");    res.end();  })  app.get('/first\_template', function(req, res){  res.render('first\_view');  });  var server = app.listen(8081, function () {  var host = server.address().address  var port = server.address().port  })  Index.html:  <html>  <body>  <h2>Task 2</h2>  <form action = "/submit" method = "post" enctype = “multipart/form-data”>  Click here to upload your file: <input type = "file" name = "file"></br>  <br><br>  <input type="submit" value="upload">  </form>  </body>  </html>  Task2 Output Screenshot:          Task3 Code:  Server.js:  var express = require('express');  var bodyParser = require('body-parser');  var multer = require('multer');  var upload = multer();  var app = express();  app.set('view engine', 'pug');  app.set('views', './views');  app.get('/', function(req, res){  res.render('form');  });  app.use(bodyParser.json());  app.use(bodyParser.urlencoded({ extended: true }));  app.use(upload.array());  app.use(express.static('public'));  app.post('/submit', function(req, res){  console.log(req.body);  res.send("Request Recieved!");  });  app.listen(8081);  form.pug:  html  head  title Form Tester  body  form(action = "/submit", method = "POST")  div  label(for = "First Name") First Name:  input(name = "firstname" value = "Sarah")  br  div  label(for = "Last Name") Last Name:  input(name = "lastname" value = "Tayyab")  br  button(type = "submit") Submit  Task3 Output Screenshot: |