# 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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# Class: BSCS 7B

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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.

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| **Task 1** |
| HTML FILE – index.html **<!DOCTYPE html>**  **<html>**  **<head>**  **<title>Form Task 1</title>**  **</head>**  **<body>**  **<form action="/" method="POST" enctype="multipart/form-data">**  **Name: <input type="text" name="name" value="name"></input><br>**  **Age: <input type="text" name="age" value="age"></input><br>**  **Department: <input type="text" name="dept" value="department"></input><br>**  **CMS ID: <input type="text" name="cms" value="cms"></input><br>**  **<input type="submit"></input>**  **</form>**  **</body>**  **</html>** JS FILE – server.js **var express = require("express");**  **var path = require("path");**  **var bodyParser = require("body-parser");**  **var multer = require("multer");**  **var upload = multer();**  **var app = express();**  **app.get("/", function(req, res){**  **res.sendFile(path.join(\_\_dirname + '/index.html'));**  **});**  **app.use(bodyParser.json());**  **app.use(bodyParser.urlencoded({ extended: true }));**  **app.use(upload.array());**  **app.post('/', function(req, res)**  **{**  **console.log(req.body);**    **res.send("Name: " + req.body.name + " <br> Age: " + req.body.age + " <br> Department: " + req.body.dept + "<br> CMS ID: " + req.body.cms);**  **});**  **app.listen(3000);** |

**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.

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| **Task 2** |
| HTML FILE – index.html **<!DOCTYPE html>**  **<html>**  **<head>**  **<title>Form Task 1</title>**  **</head>**  **<body>**  **<form action="/" method="POST" enctype="multipart/form-data">**  **Name: <input type="text" name="name" value="name"></input><br>**  **Age: <input type="text" name="age" value="age"></input><br>**  **Department: <input type="text" name="dept" value="department"></input><br>**  **CMS ID: <input type="text" name="cms" value="cms"></input><br>**  **File Upload: <input type="file" name="file"></input><br>**  **<input type="submit"></input>**  **</form>**  **</body>**  **</html>** JS FILE – server.js **var express = require("express");**  **var path = require("path");**  **var bodyParser = require("body-parser");**  **var multer = require("multer");**  **var upload = multer();**  **var app = express();**  **var upload = multer({ dest: 'Files/' });**  **app.get("/", function(req, res){**  **res.sendFile(path.join(\_\_dirname + '/index.html'));**  **})**  **app.post('/', upload.single('file'), function (req, res) {**    **console.log(req.file);**  **console.log(req.body);**  **res.send("Received file.");**  **})**  **app.listen(3000);** |

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

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| **Task 3** |
| PUG FILE – pugform.pug **html**  **head**  **title "Form"**  **body**  **form(action="/", method="POST", enctype="multipart/form-data")**  **div**  **label Name:**  **input(name="name", type="text", value="name")**  **br**  **div**  **label Age:**  **input(name="age", type="text", value="age")**  **br**  **div**  **label Department:**  **input(name="dept", type="text", value="dept")**  **br**  **div**  **label CMS ID:**  **input(name="cms", type="text", value="cms")**  **br**  **input(type="submit")** JS FILE – server.js **var express = require("express");**  **var bodyParser = require("body-parser");**  **var multer = require("multer");**  **var upload = multer();**  **var app = express();**  **app.get("/", function (req, res) {**  **res.render("pugform")**  **})**  **app.use(bodyParser.json());**  **app.use(bodyParser.urlencoded({ extended: true }));**  **app.use(upload.array());**  **app.set("view engine", "pug");**  **app.set("views", "./views");**  **app.post('/', function(req, res)**  **{**  **console.log(req.body);**    **res.send("Name: " + req.body.name + " <br> Age: " + req.body.age + " <br> Department: " + req.body.dept + "<br> CMS ID: " + req.body.cms);**  **});**  **app.listen(3000);** |