# 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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**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.

**Index.html**

<!DOCTYPE html>

<html>

<body>

<h2>HTML Forms</h2>

<form action="http://127.0.0.1:3000/t1" method ="POST">

First name:<br>

<input type="text" name="firstname" value="Mickey">

<br>

Last name:<br>

<input type="text" name="lastname" value="Mouse">

<br><br>

<input type="submit" value="Submit">

</form>

</body>

</html>

**Server.js**

var express = require('express');

var bodyParser = require('body-parser');

var multer = require('multer');

var upload = multer();

var app = express();

app.use(bodyParser.json());

app.use(bodyParser.urlencoded({ extended: true }));

//form-urlencoded

app.use(upload.array());

app.use(express.static('public'));

app.post('/t1', function(req, res){

console.log(req.body);

res.send("recieved your request!");

});

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.

**Index.html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Upload File</title>

</head>

<body>

<form action="http://127.0.0.1:3000/task" enctype="multipart/form-data" method="POST">

<input type="file" name="myFile" />

<input type="submit" value="Upload a file"/>

</form>

</body>

</html>

**Server.js:**

var express = require('express');

var bodyParser = require('body-parser');

var app = express();

var formidable = require('formidable');

app.use(bodyParser.json());

app.use(bodyParser.urlencoded({ extended: true }));

//form-urlencoded

app.use(express.static('public'));

app.post('/task', function(req, res){

if (req.url == '/task') {

var form = new formidable.IncomingForm();

form.parse(req, function (err, fields, files) {

if (err) throw err;

console.log(JSON.stringify(files));

res.write('File uploaded');

res.end();

});

};

});

app.listen(3000);



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

**Pug Form:**

html

html

head

title Form Tester

body

form(action = "/", method = "POST")

div

label(for = "FirstName") FirstName:

input(name = "fn" value = "Yolo")

br

div

label(for = "Ln") LastName:

input(name = "ln" value = "YODO")

br

button(type = "submit") ok.

