# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7A**

# Lab 07: Express JS

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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.

**Server.js**

var express = require("express");

var app = express();

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

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

app.get("/",function(req,res)

{

res.render("index");

});

app.listen(3000,function()

{

console.log("server started!");

});

**Index.html**

<h1>This is my index file</h1>

<form class="" action="index.html" method="post">

<input type="text" name="" value="" placeholder="name">

<input type="text" name="" value="" placeholder="hobby">

</form>

**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.

**server.js:-**

const express = require('express');

const multer = require('multer');

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

const app = express();

const port = process.env.PORT || 3000;

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

app.use(bodyParser.json());

app.use('/', express.static(\_\_dirname + '/public'));

const multerConfig = {

storage: multer.diskStorage({

destination: function(req, file, next){

next(null, './public/photo-storage');

},

filename: function(req, file, next){

console.log(file);

const ext = file.mimetype.split('/')[1];

next(null, file.fieldname + '-' + Date.now() + '.'+ext);

}

}),

fileFilter: function(req, file, next){

if(!file){

next();

}

const image = file.mimetype.startsWith('image/');

if(image){

console.log('photo uploaded');

next(null, true);

}else{

console.log("file not supported");

return next();

}

}

};

app.get('/', function(req, res){

res.render('index.html');

});

app.post('/upload',multer(multerConfig).single('photo'),function(req,res){

res.send('Complete!');

});

**Index.html**

<form action="/upload" enctype="multipart/form-data" method="POST">

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

<input type="submit" value="Upload Photo"/>

</form>

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

**Pug file:-**

doctype html

html

head

body

h2 HTML Forms

form(action='/action\_page.php')

| 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')

input(type='text', name='hobby', value='horseriding')

p

| If you click the "Submit" button, the form-data will be sent to a page called "/action\_page.php".

Server.js:-

const express = require('express');

const multer = require('multer');

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

const app = express();

const port = process.env.PORT || 3000;

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

app.get('/', function(req, res){

res.render('index.pug');

});

app.post('/upload',multer(multerConfig).single('photo'),function(req,res){

res.send('Complete!');

});

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