# Zoha Ahmed

213901

Lab7

**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:  <!DOCTYPE html> <html> <head> <title>form</title> </head> <body> <form method="POST" action="<http://127.0.0.1:8081/index1.html>"> <label>First name</label> <input type="text" name="fname"><br> <label>Last name</label> <input type="text" name="lname"><br> <button type="submit"></button> </form> </body> </html>  var exp=require('express'); var bp=require('body-parser'); var app = express(); var urlencparser= bp.urlencoded({extended:false}); app.get('/index.html', function(req, res){ res.sendFile(\_\_dirname+"/"+"index.html");}); app.post('/index1.html', urlencparser, function(req, res){ input={First name:[req.body.fname](http://req.body.name/) ,  Last name:req.body.lname }; res.end(JSON.stringify(input)); }); app.listen(8081);  Task1 Output Screenshot:      Task2 Code:  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <title>file upload</title>  </head>  <body>  <form action="/file" enctype="multipart/form-data" method="POST">  <input type="file" name="uf" />  <input type="submit" > </input>  </form>  </body>  </html>  const exp = require('express')  const bp= require('body-parser')  const app = express()  const multer = require('multer');  app.use(bp.urlencoded({extended: true}))  app.get('/', function (req, res) {  res.sendFile( \_\_dirname + "/index.html" );  })  var store = multer.diskStorage({  destination: function (req, file, cb) {  cb(null, 'uploads')  },  filename: function (req, file, cb) {  cb(null, file.fieldname + '-' + Date.now())  }  })    var upload = multer({ storage: storage })  app.post('/file', upload.single('uf'), (req, res, next) => {  const file = req.file  if (!file) {  const error = new Error('Please upload a file')  error.httpStatusCode = 400  return next(error)  }  res.send(file)  res.write(“File uploaded”)  })  var server = app.listen(8081, function () {  var host = server.address().address  var port = server.address().port  console.log("Example app listening at http://%s:%s", host, port)  })  Task2 Output Screenshot:    Task3 Code:  html  head  title pug form  body  form(action = "/", method = "POST")  label(for = "nam") First name:  input(name = "fn" )  br  label(for = "ln") Last name:  input(name = "ln" )  br  button(type = "submit") Submit!  var exp = require('express');  var bp = 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(bp.json());  app.use(bp.urlencoded({ extended: true }));  app.use(upload.array());  app.use(exp.static('public'));  app.post('/', function(req, res){  res.send(JSON.stringify(req.body));  });  app.listen(8081);  Task3 Output Screenshot: |