Step-1=>Install following packages through npm>bcryptjs,dotenv,ejs,express,fs,jsonwebtoken,mongoose,multer,nodemon,path
Step-2=>Create folders config,controller,models,routes,uploads,views

Step-3=>create **.js** files server.js, jwtconfig.js, config(folder)->db.js, model(folder)->book.js and user.js(for login and registration),controller(folder)->controller.js,router(folder)->router.js, views(folder)->add.ejs,edit.ejs,list.ejs,login.ejs,registration.ejs

Step-4=>in config(folder)->db.js file write connection code

Step-5=>in model(folder)->book.js and user.js(for login and registration) file create your schema for given table and user

Step-6=>in controller(folder)->controller.js file create 7 functions create, edit, delete, update, list, login, registration under login function jwt is written as below

First declare 3 const like below then followed code

```
const config = require('../jwtconfig');
const bcrypt = require('bcryptjs');
const jwt = require('jsonwebtoken');
login : async(req,res)=>{
        try{
            user.findOne({ email: req.body.email }, (err, user) => {
                if (user) {
                   let validPassword =
bcrypt.compare(req.body.pass,user.password,(err, isMatch) => {
                           if (isMatch) {
                               let token = jwt.sign({ userId: user._id },
                                   config.secret, { expiresIn: '24h' });
redirecting to student page
                               res.cookie('token', token, {
                                   maxAge: 900000,
                                   httpOnly: true
                               });
                               res.redirect('/books/list');
                           } else {
                               res.json({ success: false, message: 'Invalid
password' });
```

```
}
});

});

});

catch(error){
    console.log(error.message);
}
```

Step-7=>in router.js file set routers for function in ejs files and code for multer for pic uploads as below

```
require('fs');
const multer = require("multer");
const path = require("path");

const storage = multer.diskStorage({
    destination: function (req, file, cb) {
        // console.log(file);
        cb(null, path.join(__dirname, "../uploads"));
    },
    filename: function (req, file, cb) {
        if (file.mimetype === "image/jpg" || file.mimetype === "image/png" ||
        file.mimetype === "image/jpeg")
            cb(null,`${file.originalname}`);
        else
            cb(new Error("Invalid file format"));
    }
})
const multerUpload = multer({ storage: storage });
```

Step-8=>in jwtconfig.js file export 2 variables database and secret as below

```
module.exports={
    database: 'mongodb://localhost:27017/testdb',
    secret: 'secret'
}
```

Step-9=>in server.js file set listening port and url for routers