**Practical 18**

**AIM:**

**Create a page which ask user to upload/Download the files.**

**Note: Explore Multer Package**

**CODE:**

**Upload.js**

// src/routes/upload.js

const express = require("express");

const multer = require("multer");

const path = require("path");

const router = express.Router();

// Image Upload

const imageStorage = multer.diskStorage({

  destination: "images",

  filename: (req, file, cb) => {

    cb(

      null,

      file.fieldname + "\_" + Date.now() + path.extname(file.originalname)

    );

  },

});

const imageUpload = multer({

  storage: imageStorage,

  limits: { fileSize: 1000000 },

  fileFilter(req, file, cb) {

    if (!file.originalname.match(/\.(png|jpg|JPG)$/)) {

      return cb(new Error("Please upload an Image"));

    }

    cb(null, true);

  },

});

// For Single image upload

router.post(

  "/uploadImage",

  imageUpload.single("image"),

  (req, res) => {

    console.log("Single image uploaded");

    res.send(req.file);

  },

  (error, req, res, next) => {

    console.error("Error uploading single image:", error.message);

    res.status(400).json({ error: error.message });

  }

);

// For Multiple image upload

router.post(

  "/uploadBulkImage",

  imageUpload.array("images", 4),

  (req, res) => {

    console.log("Multiple images uploaded");

    res.send(req.files);

  },

  (error, req, res, next) => {

    console.error("Error uploading multiple images:", error.message);

    res.status(400).json({ error: error.message });

  }

);

// Video Upload

const videoStorage = multer.diskStorage({

  destination: "videos",

  filename: (req, file, cb) => {

    cb(

      null,

      file.fieldname + "\_" + Date.now() + path.extname(file.originalname)

    );

  },

});

const videoUpload = multer({

  storage: videoStorage,

  limits: { fileSize: 10000000 },

  fileFilter(req, file, cb) {

    if (!file.originalname.match(/\.(mp4|MPEG-4)$/)) {

      return cb(new Error("Please upload a Video"));

    }

    cb(null, true);

  },

});

router.post(

  "/uploadVideo",

  videoUpload.single("video"),

  (req, res) => {

    console.log("Video uploaded");

    res.send(req.file);

  },

  (error, req, res, next) => {

    console.error("Error uploading video:", error.message);

    res.status(400).json({ error: error.message });

  }

);

router.get("/uploadImage", (req, res) => {

  res.sendFile(path.join(\_\_dirname, "../../views/image.html"));

});

router.get("/uploadBulkImage", (req, res) => {

  res.sendFile(path.join(\_\_dirname, "../../views/multi\_image.html"));

});

router.get("/uploadVideo", (req, res) => {

  res.sendFile(path.join(\_\_dirname, "../../views/video.html"));

});

module.exports = router;

**app.js**

// src/app.js

const express = require("express");

const uploadRoute = require("./routes/upload.js");

const app = express();

const port = process.env.PORT || 7000;

// Middleware for parsing JSON bodies

app.use(express.json());

// Use the upload route

app.use("/uploads", uploadRoute);

// Catch-all route for handling 404 errors

app.use((req, res) => {

  res.status(404).json({ error: "Not Found" });

});

// Start the server

app.listen(port, () => {

  console.log(`Server is up on port ${port}`);

});

**Image.html**

<!-- views/uploadSingleImage.html -->

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Upload Single Image</title>

</head>

<body>

    <h1>Upload Single Image</h1>

    <form action="http://localhost:7000/uploads/uploadImage" method="post" enctype="multipart/form-data">

        <label for="image">Select Image:</label>

        <input type="file" name="image" accept=".png, .jpg, .jpeg">

        <br>

        <button type="submit">Upload Image</button>

    </form>

</body>

</html>

**Multi\_image.html**

<!-- views/uploadMultipleImages.html -->

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Upload Multiple Images</title>

</head>

<body>

    <h1>Upload Multiple Images</h1>

    <form action="http://localhost:7000/uploads/uploadBulkImage" method="post" enctype="multipart/form-data">

        <label for="images">Select Images:</label>

        <input type="file" name="images" accept=".png, .jpg, .jpeg" multiple>

        <br>

        <button type="submit">Upload Images</button>

    </form>

</body>

</html>

**Video.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>File Upload Test</title>

</head>

<body>

    <form action="http://localhost:7000/uploads/uploadVideo" method="post" enctype="multipart/form-data">

        <label for="video">Select Video:</label>

        <input type="file" name="video" accept=".mp4, .mpeg4">

        <br>

        <button type="submit">Upload Video</button>

    </form>

</body>

</html>

**OUTPUT:**











