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Course :Blockchain Programming

Section:“B”

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Index.js

```
// Require Libraries
var http = require('http')
var express = require('express')
var morgan = require('morgan')
var body_parser = require('body-parser')
// Require Routes
var userRoute = require('./routes/userRoute.js')
var postRoute = require('./routes/postRoute.js')
var profileRoute = require('./routes/profileRoute.js')
//Host details
var hostname = 'localhost'
var port = 80

//Content
var users = {"users":[
  {"id":1,"name":"x",'details':''}
]}
var profile = {"profiles":[
  {"userid":1,"Full Name":"xx", "image":"url"}
]}
var posts = {
  "posts":[
    {"id":1,"title":"","description":"","created_by":1}
  ]
}

//express
var app = express();
app.use(morgan('dev'))
app.use(express.static('public'))
app.use(body_parser.json())
app.use('/user',userRoute)
app.use('/post',postRoute)
app.use('/profile',profileRoute)
// app.use((req,res)=>{
//   res.end('hello')
// })
var server = http.createServer(app);

server.listen(port,hostname, (msg)=>{
  console.log('Server Started at http://'+hostname+':'+port)
})
```

Routes/userRoute.js

```
var express = require('express');

var userRoute = express.Router();
var users = {"users":[
```

```

    {"id":1,"name":"hamza",'details':"vlogger"},
    {"id":2,"name":"bilal",'details':"tiktok"},
    {"id":3,"name":"hassan",'details':"engineer"},
    {"id":4,"name":"owais",'details':"Media director"}
  ]}

  userRoute.route('/')
    .get((req,res)=>{
      res.end('This will show all users \n' + JSON.stringify(users))
    })
    .post((req,res)=>{
      users.users.push({"id":req.body.id,"name":req.body.name,'details':req.body.details})
      res.end('This will add new users with username '+ req.body.name+" "+JSON.stringify(users))
    })
    .put((req,res)=>{
      res.end('Put request is forbidden')
    })
    .delete((req,res)=>{
      res.end('Delete request is forbidden')
    });

  userRoute.route('/:userId')
    .get((req,res)=>{
      users.users.forEach(function(item,index){
        if(item.id == req.params.userId){
          res.json(item)
        }
      })
      res.end('There is no such user with userid '+req.params.userId)
    })
    .post((req,res)=>{
      res.end('Post request is forbidden')
    })
    .put((req,res)=>{
      users.users.forEach(function(item,index){
        if(item.id == req.params.userId){
          users.users.splice(index, 1,{"id":req.body.id,"name":req.body.name,'details':req.body.details} );

          res.end('This will update details of user with userid '
            +req.params.userId +
            ' with name ='
            + req.body.name +
            ' and having details '+ req.body.details)}
      })

    })

    .delete((req,res)=>{
      users.users.forEach(function(item,index){
        if(item.id == req.params.userId){
          users.users.splice(index, 1);
          res.end('This will delete user with userid '+req.params.userId)
        }
      })
    })
  });

module.exports = userRoute;

```

Routes/postRoute.js

```

var express = require('express');

var postRoute = express.Router();
var posts = {
  "posts": [
    { "id": 1, "title": "web development", "description": " here we show you how you develop a website", "created_by": "mahnoor" },
    { "id": 2, "title": "pakistan tour", "description": " here a most beautiful place in asia", "created_by": "hamza" },
    { "id": 3, "title": "loyalty ", "description": " here we show you a short film about loyalty", "created_by": "owais" }
  ]
}

postRoute.route('/')
  .get((req, res) => {
    res.end('This will show all posts \n' + JSON.stringify(posts))
  })
  .post((req, res) => {
    posts.posts.push({ "id": req.body.id, "title": req.body.title, "description": req.body.description, "created_by": req.body.created_by })
    res.end('This will add new posts with posttitle ' + req.body.title + " " + JSON.stringify(posts))
  })
  .put((req, res) => {
    res.end('Put request is forbidden')
  })
  .delete((req, res) => {
    res.end('Delete request is forbidden')
  });

postRoute.route('/:postId')
  .get((req, res) => {
    posts.posts.forEach(function (item, index) {
      if (item.id == req.params.postId) {
        res.json(item)
      }
    })
    res.end('There is no such post with postid ' + req.params.postId)
  })
  .post((req, res) => {
    res.end('Post request is forbidden')
  })
  .put((req, res) => {
    posts.posts.forEach(function (item, index) {
      if (item.id == req.params.postId) {
        posts.posts.splice(index, 1, { "id": req.body.id, "title": req.body.title, "description": req.body.description, "created_by": req.body.created_by });
        res.end('This will update details of post with postid ' + req.params.postId + ' with title = ' + req.body.title + ' and having description ' + req.body.description)
      }
    })
  })
  .delete((req, res) => {
    posts.posts.forEach(function (item, index) {
      if (item.id == req.params.postId) {
        posts.posts.splice(index, 1);
        res.end('This will delete post with postid ' + req.params.postId)
      }
    })
  })

```

```

    });

module.exports = postRoute;

```

Routes/profileRoute.js

```

var express = require('express');

var profileRoute = express.Router();
var profiles = [{"profiles": [
  {"userid": 1, "Full_Name": "hamza khan", "image": "https://tse1.mm.bing.net/th?id=OIP.whYid2jKN-8c3BUhtIoSTgHaEK&pid=Api&rs=1&c=1&qlt=95&w=211&h=118"},
  {"userid": 2, "Full_Name": "bilal khan", "image": "https://tse2.mm.bing.net/th?id=OIP.4-swZSVMu51RK50IyAjC1QHak&pid=Api&P=0&w=277&h=156"},
  {"userid": 3, "Full_Name": "owais khan", "image": "http://2.bp.blogspot.com/-ya6E_4I_pkY/UA-KRIKu3KI/AAAAAAAAAJk/AjEDjAK4IhM/s1600/nature+wallpaper+1280-1.jpg"}
]}

profileRoute.route('/')
  .get((req, res) => {
    res.end('This will show all profiles \n' + JSON.stringify(profiles))
  })
  .post((req, res) => {
    profiles.profiles.push({"userid": req.body.userid, "Full_Name": req.body.Full_Name, 'image': req.body.image})
    res.end('This will add new profiles with profilename \n' + req.body.name + " " + JSON.stringify(profiles))
  })
  .put((req, res) => {
    res.end('Put request is forbidden')
  })
  .delete((req, res) => {
    res.end('Delete request is forbidden')
  });

profileRoute.route('/:profileId')
  .get((req, res) => {
    profiles.profiles.forEach(function(item, index) {
      if (item.userid == req.params.profileId) {
        res.json(item)
      }
    })
    res.end('There is no such profile with profileid ' + req.params.profileId)
  })
  .post((req, res) => {
    res.end('Post request is forbidden')
  })
  .put((req, res) => {
    profiles.profiles.forEach(function(item, index) {
      if (item.userid == req.params.profileId) {
        profiles.profiles.splice(index, 1, {"userid": req.body.userid, "Full_Name": req.body.Full_Name, 'image': req.body.image});
        res.end('This will update details of profile with profileid ' + req.params.profileId + ' with name = ' + req.body.Full_Name + ' and having details ' + req.body.image)}
      )
    })
  });

```

```
    })

    .delete((req,res)=>{
      profiles.profiles.forEach(function(item,index){
        if(item.userid == req.params.profileId){
          profiles.profiles.splice(index, 1);
          res.end('This will delete profile with profileid '+req.params.profileId)
        }
      })
    })

  });
module.exports = profileRoute;
```