## Part 1:

```
A A-FOWEI CU-Dy. LAPI C33
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 334
5 ETag: W/"14e-TwCdIFnEJC058KJnpi60m9SACZg"
6 Date: Sat, 30 Apr 2022 14:26:54 GMT
7 Connection: close
9 ~ [
       "id": 1,
     "name": "User 1"
    },
     "id": 2,
     "name": "User 2"
     },
      "id": 3,
     "name": "User 3"
    },
       "id": 4,
       "name": "User 4"
```

GET http://localhost:3000/users

## Part 2:

```
= requests.rest X
1) package.json | JS server.js
Web Lab 12 > 

requests.rest > 
GET /users?page=1&limit=6
                                                                                     "id": 1,
                                                                                     "name": "User 1"
       Send Request
                                                                                     "id": 2,
                                                                                     "name": "User 2"
                                                                                   },
                                                                                     "id": 3,
                                                                                     "name": "User 3"
                                                                                   },
                                                                                     "id": 4,
                                                                                     "name": "User 4"
                                                                                   },
                                                                                     "id": 5,
                                                                                     "name": "User 5"
                                                                                   },
                                                                                     "id": 6,
                                                                                     "name": "User 6"
```

```
app.get('/users',(req,res) => {
    const page = req.query.page
    const limit = req.query.limit

    const startIndex = (page -1) * limit
    const endIndex = page * limit

    const results = {}

    results.results = users.slice(startIndex, endIndex)

    res.json(results)
})

app.listen(3000)
```

## Part 3:

```
X-Powered-By: Express
1 GET http://localhost:3000/users?page=1&limit=4
                                                                    Content-Type: applicatio
                                                                    Content-Length: 113
                                                                    ETag: W/"71-CoMYyFpPLp3x
                                                                    Date: Sat, 30 Apr 2022 1
                                                                    Connection: close
                                                                10 ∨ "results": [
                                                                          "id": 1,
                                                                          "name": "User 1"
                                                                          "id": 2,
                                                                          "name": "User 2"
                                                                          "id": 3,
                                                                          "name": "User 3"
                                                                          "id": 4,
                                                                          "name": "User 4"
```

```
GET http://localhost:3000/customers?page=1&limit
                                                            2 X-Powered-By: Express
                                                            3 Content-Type: application
                                                            4 Content-Length: 117
                                                            5 ETag: W/"75-hcKorYl0vuykp
                                                            6 Date: Sat, 30 Apr 2022 16
                                                               Connection: close
                                                            9 ~ [
                                                                   "id": 1,
                                                                   "name": "Customer 1"
                                                                   "id": 2,
                                                                   "name": "Customer 2"
                                                                   "id": 3,
                                                                   "name": "Customer 3"
                                                                   "id": 4,
                                                                   "name": "Customer 4"
```

```
Web Lab 12 > 

requests.rest > 
GET /admins?page=1&limit=4
      Send Request
                                                                         HTTP/1.1 200 OK
      GET http://localhost:3000/admins?page=1&limit=4
                                                                         X-Powered-By: Express
                                                                     3 Content-Type: applicat
                                                                     4 Content-Length: 105
                                                                     5 ETag: W/"69-D3kC08i2xH
                                                                     6 Date: Sat, 30 Apr 2022
                                                                     7 Connection: close
                                                                     9 ~ [
                                                                             "id": 1,
                                                                             "name": "Admin 1"
                                                                             "id": 2,
                                                                             "name": "Admin 2"
                                                                             "id": 3,
                                                                           "name": "Admin 3"
                                                                             "id": 4,
                                                                             "name": "Admin 4"
```

```
const customers = [
   {id: 3, name: 'Customer 3'},
   {id: 6, name: 'Customer 6'},
const admins = [
   {id: 7, name: 'Admin 7'},
app.get('/users',(req,res) => {
   const page = req.query.page
   const limit = req.query.limit
   const startIndex = (page -1) * limit
   const endIndex = page * limit
   const results = {}
   res.json(results)
app.get('/customers',(req,res) => {
   const page = req.query.page
   const limit = req.query.limit
```

```
const startIndex = (page -1) * limit
  const endIndex = page * limit
  const resultCustomers = customers.slice(startIndex,endIndex)
  res.json(resultCustomers)
})

app.get('/admins', (req,res) => {
  const page = req.query.page
  const limit = req.query.limit
  const startIndex = (page -1) * limit
  const endIndex = page * limit
  const resultAdmins = admins.slice(startIndex,endIndex)
  res.json(resultAdmins)
})

app.listen(3000)
```

## Part 4: