



JÖNKÖPING UNIVERSITY

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REST API IN EXPRESS

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THE RESOURCES

```
const express = require('express')
const app = express()

const users = [
  {id: 1, name: "Alice"},
  {id: 2, name: "Bob"}
]

app.listen(8080)
```

HANDLING GET REQUESTS

```
const users = [{id: 1, name: "Alice"}, {id: 2, name: "Bob"}]
app.get('/users', function(request, response) {
  response.status(200).json(users)
})
app.get('/users/:id', function(request, response) {
  const id = parseInt(request.params.id)
  const user = users.find(user => user.id == id)
  if(user) {
    response.status(200).json(user)
  } else {
    response.status(404).end()
  }
})
```

HANDLING POST REQUESTS

```
const users = [{id: 1, name: "Alice"}, {id: 2, name: "Bob"}]
const bodyParser = require('body-parser')

app.use(bodyParser.json())

app.post('/users', function(request, response) {
  const newUser = request.body
  newUser.id = users[users.length-1].id + 1
  users.push(newUser)
  response.setHeader("Location", "/users/"+newUser.id)
  response.status(201).end()
})
```

HANDLING PUT REQUESTS

```
const users = [{id: 1, name: "Alice"}, {id: 2, name: "Bob"}]

app.put('/users/:id', function(request, response) {
  const id = parseInt(request.params.id)
  const updatedUser = request.body
  const index = users.findIndex(user => user.id == id)
  if(index == -1) {
    response.status(404).end()
  } else {
    users[index] = updatedUser
    response.status(204).end()
  }
})
```

HANDLING DELETE REQUESTS

```
const users = [{id: 1, name: "Alice"}, {id: 2, name: "Bob"}]

app.delete('/users/:id', function(request, response) {
  const id = parseInt(request.params.id)
  const index = users.findIndex(user => user.id == id)
  if(index == -1) {
    response.status(404).end()
  } else {
    users.splice(index, 1)
    response.status(204).end()
  }
})
```