

Starting instructions:

- Create a new git repository (beerAPI)
- Git clone (new repo url)
- cd into that repo and run the following:
 - npm init
 - npm install -s express
 - npm install -s mongoose
 - npm install -g nodemon

Git commands

- git status
- git add .
- git commit -m 'Added dependencies'

FIX HUNG MONGO

pgrep mongo

kill <pid>

Barebones

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

const mongoose = require('mongoose')

const app = express()

app.listen(9090)

console.log(`Listening for stuff on port ${port}`)
```

Add settings

*// Allow key/value pairs to be more than strings/arrays,
and tell our server to parse json*

```
app.use(express.urlencoded({ extended: true }))

app.use(express.json())
```

Setup port better

```
const port = process.env.PORT || 9090
app.listen(port)
```

(Then run with 'PORT=4444 nodemon')

Add some middleware

```
// Middleware example
app.use((req, res, next) => {
  console.log("Something's hitting me!")
  next()
})

app.use((req, res, next) => {
  console.log("What about me??")
})
```

GIT COMMIT - added basic setup and some middleware

Add a basic route at /

Add next() to the end of app.use() above. THEN

```
// Basic route
app.get('/', (req, res) => {
  res.json({ message: 'Welcome to our beer API! Try hitting the
/api endpoint' })
})
```

Invoke the router, mount it at /api, and add a base route response here

```
// Advanced routes
const router = express.Router()
```

```

app.use('/api', router)

router.get('/', (req, res) => {
  res.json({ message: 'Great! Now checkout the /api/beers
endpoint. You can view and modify data there.'})
})

```

GIT COMMIT - added route at / and mounted a router at /api

Create a beers route and mount the beers route to the beers endpoint

```
const beers = require('./app/routes/beers')
```

```
=====
```

```
router.use('/beers', beers)
```

This will throw an error until you add the file and code below

Create a beers route (./app/routes/beers.js)

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

```
const router = express.Router()
```

```
router.get('/', (req, res) => {
```

```
  console.log('Got beers');
```

```
})
```

```
router.post('/', (req, res) => {
```

```
  console.log('Saved a beer');
```

```
})
```

```
module.exports = router
```

GIT COMMIT - created /api/beers route

Run the mongo daemon and connect via mongoose (server.js)

“mongod” in a terminal, leave it open

```
mongoose.connect('mongodb://localhost:27017/beers', {  
  useNewUrlParser: true })
```

```
mongoose.connection.on('connected', () => {  
  console.log('Connected to "beers" database');  
})
```

```
mongoose.connection.on('error', (err) => {  
  console.log(`Got an error!: \n${err}`);  
})
```

Create our models folder and our first model at ./app/models/beer.js (beer.js)

```
const mongoose = require('mongoose')  
const Schema = mongoose.Schema  
  
const BeerSchema = new Schema({  
  name: {  
    type: String,  
    required: true  
  },  
  rating: {  
    type: Number,  
    min: [0, 'Rating must be a number between 0 and 10,  
    inclusive'],
```

```

        max: [10, 'Rating must be a number between 0 and 10,
inclusive'],
        required: true
    }
})

module.exports = mongoose.model('Beer', BeerSchema)

```

GIT COMMIT

Modify beers.js post route to save to DB (beers.js)

```

const Beer = require('../models/beer')

=====

router.post('/', (req, res) => {
    let beer = new Beer()
    beer.name = req.body.name
    beer.rating = req.body.rating
    beer.save((err, document) => {
        if (err) {
            res.status(400).send(err)
        }
        res.status(200).send(`Beer posted!\n${document}`)
    })
    console.log('Saved a beer');
})

```

Modify beers.js get route to get all beers from DB (beers.js)

```

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

```

```

Beer.find((err, beers) => {
  if (err) {
    res.status(400).send(err)
  }
  res.status(200).json(beers)
})
console.log('Got beers');
})

```

Add the get route handler (beers.js)

```

router.get('/:beer_id', (req, res) => {
  Beer.findById(req.params.beer_id, (err, beer) => {
    if (err) {
      res.send(err)
    }
    res.json(beer)
  })
})

```

Add the put route handler (beers.js)

```

router.put('/:beer_id', (req, res) => {
  Beer.findById(req.params.beer_id, (err, beer) => {
    if (err) {
      res.send(err)
    }

    beer.name = req.body.name
    beer.rating = req.body.rating

    beer.save((err, document) => {

```

```

        if (err) {
            res.status(400).send(err)
        }

        res.status(200).json(`Beer
posted!\n${document}`)
    })
})
})

```

Add the delete route handler (beers.js)

```

router.delete('/:beer_id', (req, res) => {
    Beer.deleteOne({
        _id: req.params.beer_id
    }, (err) => {
        if (err) {
            res.send(err)
        }

        res.send('You successfully deleted beer: ' +
req.params.beer_id)
    })
})

```

GIT COMMIT - Finished