



# MissBug

## CRUDL end 2 end

### Node.js

MissBug is a bug management system, it allows users to add / remove and update bugs.

## Phase 1

### Step 1 – Backend

Create a new folder: miss-bug-proj

- *npm init*
- Install the modules *express* and *cookie-parser*
- Create a *server.js* file:

```
import express from 'express'
const app = express()
app.get('/', (req, res) => res.send('Hello there'))
app.listen(3030, () => console.log('Server ready at port 3030'))
```

- Check it out
- Our app manages a **bug** entity:

```
{
  "_id" : "abc123",
  "title" : "Cannot save a Car",
  "severity" : 3,
  "createdAt" : 1542107359454,
}
```

- Provide an API for Bugs CRUDL:  
(Implement one by one along with a bugService)

```
app.get('/api/bug', async (req, res) => {})
app.get('/api/bug/save', async (req, res) => {})
app.get('/api/bug/:bugId', async (req, res) => {})
app.get('/api/bug/:bugId/remove', async (req, res) => {})
```

- Test your API from the browser

## Use a frontend

- Get familiar with the provided frontend code
- Refactor the bugService to use your API instead of using localStorage
- Don't forget to allow CORS so our backend will accept the requests from the frontend DEV environment.
- Add a description to the bug entity (another prompt for now)
  - In the [bug-details](#) page, show the bug's description

## Bug Filter

Allow filtering the bugs – frontend side

## Bonus – Get a PDF

Allow the user to download a PDF file of the bugs

## Bonus - Backend – Add a cookie for usage limit

- Let's limit the user for viewing no more than 3 bugs during some time
  - Later on, we might want to encourage the user to signup and remove this limit, but this is out-of-scope for now
- So we need to keep track of the bugs the user visited
- From the backend we will send a cookie: *visitedBugs* in which we will store an array of visited bug ids (use JSON.stringify and JSON.parse where needed)
- Make sure the array is sent as cookie and saved by the browser (check the dev tools)
- Make sure it works by printing a message to the backend console:  
*User visited at the following bugs: [...]*
- When user visits more than 3 different bugs we will respond with an error:

```
return res.status(401).send('Wait for a bit')
```

- Make that cookie last for 7 seconds
- Note that you can clear the cookies at any time using the dev-tools