

# ***Interactive Web Application***

CA1

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Github: <https://github.com/marcelaksouza/web-ca>

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# Project outline

My interactive web application is a pet adoption center called Pet's World Adoption Center. The application was developed targeting the staff of Pet's World Adoption Center, it has the functionality of include a new pet, read, edit the pet information and/or delete a pet. All those functionalities sent an API request to the server which manipulates the JSON file accordingly. The application will also dynamically allocated new ids to the new entries. Application is using HTML, CSS, JavaScript for the frontend and Node.js with Express.js along with other packages for the backend.


## Files structure

```
Ca
/backend
  /helpers
    --helper.js
    --middlewares.js
  /models
    --data.json
    --petSchema.json
  /node_modules
  /routes
  --app.js
  --package-lock.json
  --package.json
/frontend
  /css
    --styles.css
  /images
    --banner.jpg
  /js
    --functions.js
    --state.js
  /shared
    --footer.html
    --header.html
  --adoptionform.html
  --index.html
```

## Sanitation and Validation

I am using the module `express-autosantitizer` to sanitize the inputs. For validation only a valid schema can be added to the Json file.

# User manual



Id	Name	Age	Group	Type	Description	Edit	Adopt	Delete
2	Olivia	2 months	mammal	cat	Olivia did not destroy her moms Christmas tree yet	Edit	Adopt	Delete
3	Charlie	1 year old	mammal	cat	Charlinho is cute most of the time, but never pets his belly.. NEVER!!	Edit	Adopt	Delete
4	Amarela	8 years old	mammal	cat	Is the most amazing cate that I ever had	Edit	Adopt	Delete
5	Salém	8 months old	mammal	cat	Salem is getting big and is scared of anything but especially of the noise of plastic bags	Edit	Adopt	Delete
11	Aninha	7	Birds	cockatiel	Is a cute cockatiel	Edit	Adopt	Delete
12	Coli	9 years old	Mammals	dog	Coli is a very playfull dog	Edit	Adopt	Delete

Image 1 : Website

## To run the application

Go to [ca/backend](#) and use `npm install` to install all the dependencies of the project then `npm run dev` to start the server. The application is set to run on port 3000. Open a browser and type `localhost:3000`


## Insert a new pet

Simply insert the information into the form and click




. It will update the table with the new information automatically


## Edit the pet's information

Hover over the information you want to edit and press  to make the change permanent.

## Delete a pet

Hover over the pet you want to delete and click . The table will be updated automatically.

## Further development

Develop the functionality of the button .

# References

### Backend

Tutorial:

<https://medium.com/@etiennerouzeaud/how-create-an-api-restfull-in-express-node-js-without-database-b030c687e2ea>

Repository :

[https://github.com/EtienneR/api\\_express\\_no\\_db/blob/master/routes/post.routes.js](https://github.com/EtienneR/api_express_no_db/blob/master/routes/post.routes.js)

Tutorial:

<https://www.youtube.com/watch?v=BRdcRFvuqsE&list=PL4cUxeGkcC9jBcybHMTIia56aV21o2cZ8>

Tutorial:

<https://robkendal.co.uk/blog/how-to-build-a-restful-node-js-api-server-using-json-files/>

Repository:

<https://github.com/bpk68/api-server-starter>

### Frontend

[https://developer.mozilla.org/en-US/docs/Web/API/Fetch\\_API/Using\\_Fetch](https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch)

<https://www.w3schools.com/js/>