
test Documentation

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Boilerplate and tooling for authoring data API backends with Node.js, JWT and MongoDB. It is best suited for developing a es6 API endpoint as a standalone (micro)service (demo), backing up web front-ends and/or mobile apps. This Generator will help to us create a express api application skeleton along with these keys features

- components Style coding
- Eslint Standard style guide
- JWT authentication
- Test cases with Mocha
- Docker
- Swagger API doc

CHAPTER 1

Requirements

- Node 10.15.1+
- MongoDB 3.4+
- yeoman-generator 3.2.0+

CHAPTER 2

Report

- Report any issues or feature enhancements in our [tracker](#)

3.1 Stepup ENV

Steps to create a node application skeleton:

```
$ npm install -g yo  
$ npm install -g generator-node-api-boilerplate  
$ yo node-api-boilerplate
```

Now the app was created and start running in your system

3.2 Usage

start the express server:

```
$ npm start
```

Test The unit testcases:

```
$ npm test
```

clean build folder and compile the source code:

```
$ npm run start:dev
```

find Lint issues in source code:

```
$ npm run lint
```

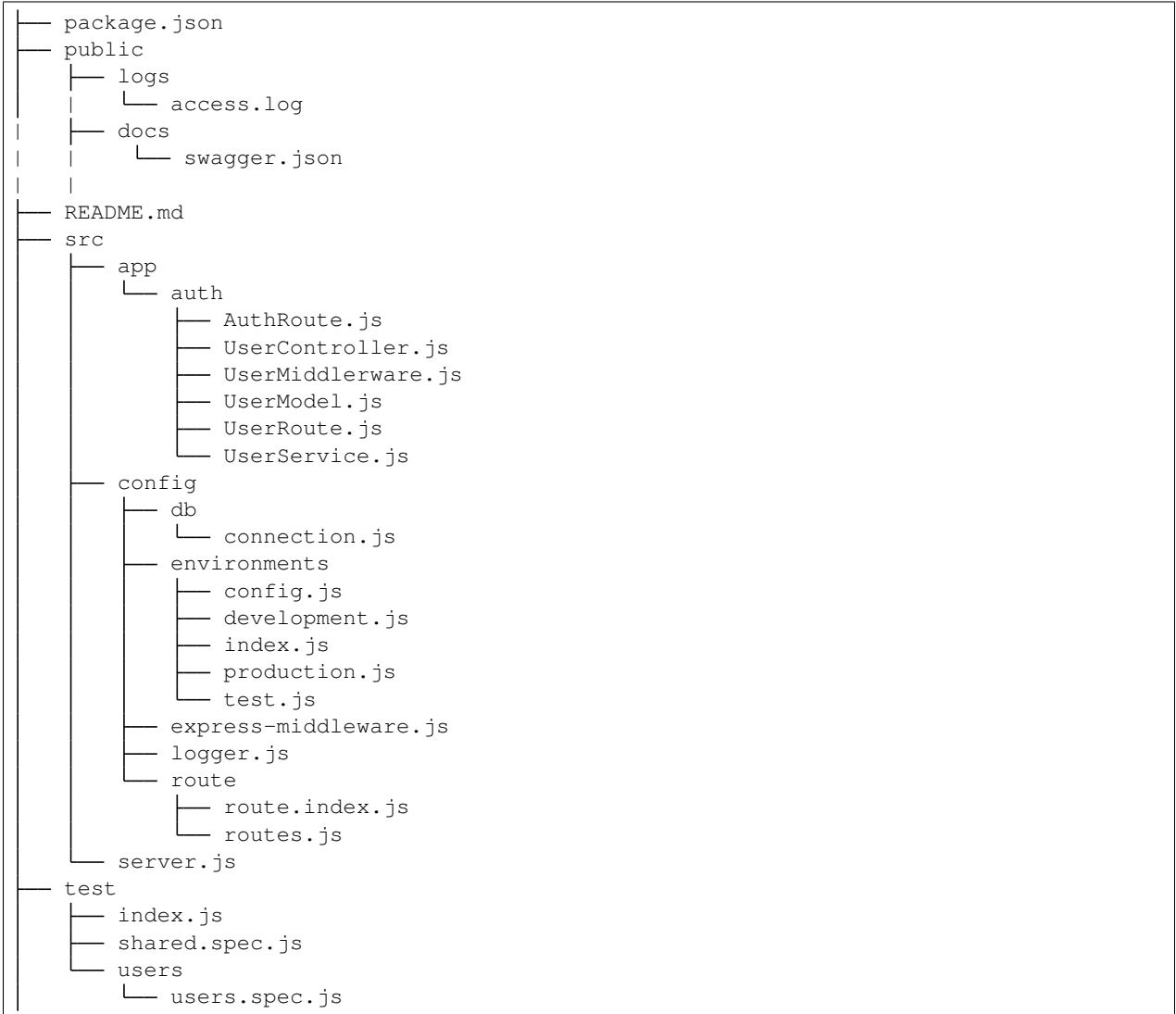
find Lint issues in test cases:

```
$ npm run lint:test
```

Note: `npm run lint:test:fix` and `npm run lint:fix` used to fix the lint errors

3.3 Project Structure

Your project will look like this:



3.3.1 src

src is the source code directory:

```

├── src
│   ├── app
│   ├── config
│   └── server.js

```

- `app` contains all needed components
- `config` has all the configurations like DB, ENV
- `server.js` is the app bootstrap file

3.3.2 Structure your solution by components

Instead of MVC pattern we recommended components based pattern:

```

├── src
│   └── app
│       └── auth
│           ├── AuthRoute.js
│           ├── UserController.js
│           ├── UserMiddleware.js
│           ├── UserModel.js
│           ├── UserRoute.js
│           └── UserService.js

```

- `auth` is the component name and that contains route, Controller, middleware, model, and the service files.

3.3.3 config

- Config folder structure:

```

├── src
│   └── config
│       ├── db
│       │   └── connection.js
│       ├── environments
│       ├── express-middleware.js
│       ├── logger.js
│       └── route

```

- DB holds the information of MongoDB connection
- `environments` use to define *ENV* variables. We can set different values for different ENV.
- `express-middleware` defines express middleware need to run this app
- `logger.js` logger details are defined here
- `route` creating interface between our components (inside `src/app`) and application.

```

├── src
│   └── config
│       └── environments
│           └── config.js

```

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config.js

It holds common ENV variables across all environments. development, production, and the “test” are extends this file.

route



Need to link our components in routes.js like this

```
import UserRoute from '../app/auth/UserRoute';

const Routes = [
{
  url: 'users',
  route: UserRoute,
  gaurd: false
}
];

export default Routes;
```

- url group name of api endpoint
- route component route object
- gaurd (optional) if you want to skip JWT verification set false. By default it sets true

3.4 API

Integrated ‘**swagger API Doc** <<https://www.npmjs.com/package/swagger-ui-express>>’. By default it loads in root path.

You can change the API doc path in code (/src/config/express-middleware.js).

```
[swagger] () {
  this.exApp.use('/', swaggerUi.serve, swaggerUi.setup(swaggerDocument, {}));
}
```