

Tecnologias e Programação de Sistemas de Informação

NODE MVC

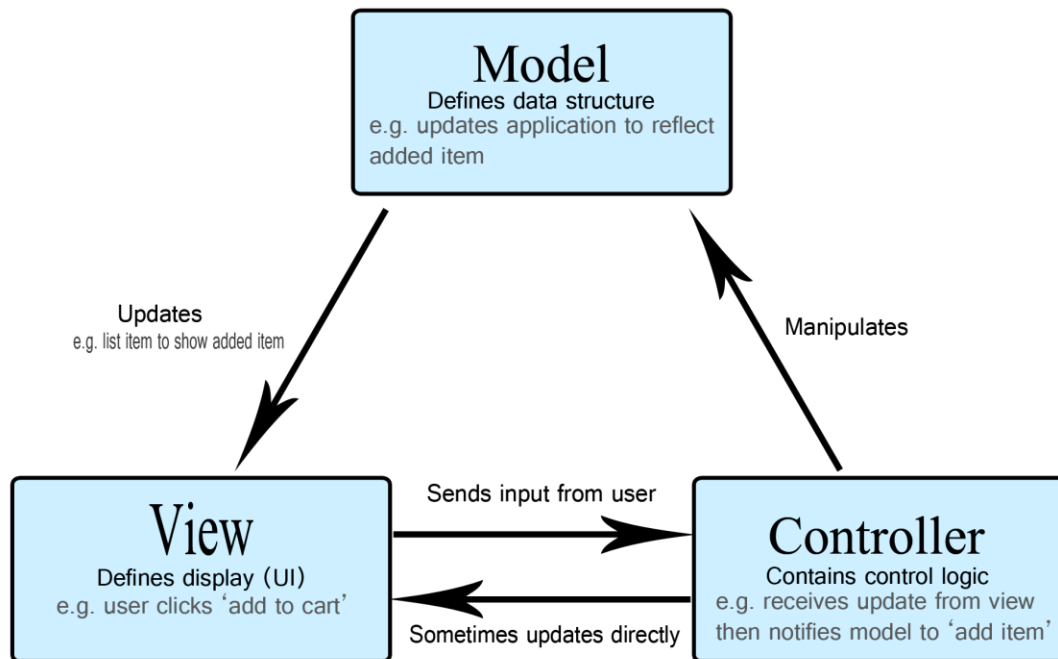
Desenvolvimento Web - Back-End | David Jardim

Cofinanciado por:

MVC – Model View Controller

- Is a pattern in software design commonly used to implement user interfaces, data, and controlling logic. It emphasizes a separation between the software's business logic and display
 - Model: Manages data and business logic
 - View: Handles layout and display
 - Controller: Routes commands to the model and view parts

MVC – Model View Controller



Install Express Application Generator

- Use the application generator tool, express-generator, to quickly create an application skeleton
- Install the application generator globally

```
PS C:\Users\David.JARDIM\Documents\AxiansLabs\ml-serving> npm install express-generator -global
C:\Users\David.JARDIM\AppData\Roaming\npm\express -> C:\Users\David.JARDIM\AppData\Roaming\npm\node_modules\express-generator\bin\express-cli.js
+ express-generator@4.16.1
updated 1 package in 0.989s
```

Use Express Application Generator

```
$ express --view=pug myapp
```

```
create : myapp
create : myapp/package.json
create : myapp/app.js
create : myapp/public
create : myapp/public/javascripts
create : myapp/public/images
create : myapp/routes
create : myapp/routes/index.js
create : myapp/routes/users.js
create : myapp/public/stylesheets
create : myapp/public/stylesheets/style.css
create : myapp/views
create : myapp/views/index.pug
create : myapp/views/layout.pug
create : myapp/views/error.pug
create : myapp/bin
create : myapp/bin/www
```

MVC Project Structure

```
├── app.js
├── bin
│   └── www
├── package.json
├── public
│   ├── images
│   ├── javascripts
│   └── stylesheets
│       └── style.css
├── routes
│   ├── index.js
│   └── users.js
└── views
    ├── error.pug
    ├── index.pug
    └── layout.pug
```

It is still necessary to add folders to:

- Models
- Controllers

Routes and middleware

```
var indexRouter = require('./routes/index');  
var usersRouter = require('./routes/users');  
var personRouter = require('./routes/person');
```

```
app.use('/', indexRouter);  
app.use('/users', usersRouter);  
app.use('/person', personRouter);
```

Models

```
module.exports = (sequelize, type) => {  
  ...  
  return sequelize.define('persons', {  
    firstname: type.TEXT,  
    lastname: type.TEXT,  
    profession: type.STRING,  
    age: type.INTEGER  
  });  
}
```


Routes

```
var express = require('express');  
var router = express.Router();  
var personController = require('../controllers/personController');  
  
router.get('/', personController.getAllPerson);  
  
module.exports = router;
```

Controllers

```
const Person = require('../sequelize').Person;

exports.getAllPerson = function (request, response, next) {
  Person.findAll()
    .then(users => {
      response.render('person', { title: 'Persons', data: users });
    });
};
```



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