

mundipagg



Thiago Barradas

Software Enginner | Mundipagg

[Web Applications] [ASP .NET]
[API RESTful] [Microsoft ♥ Linux]
[Elasticsearch] [Docker]
[DevOps] [Agile]

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CODACY, CODE CLIMATE & SONARQUBE
GARANTINDO A QUALIDADE E O PADRÃO
DO SEU SOFTWARE

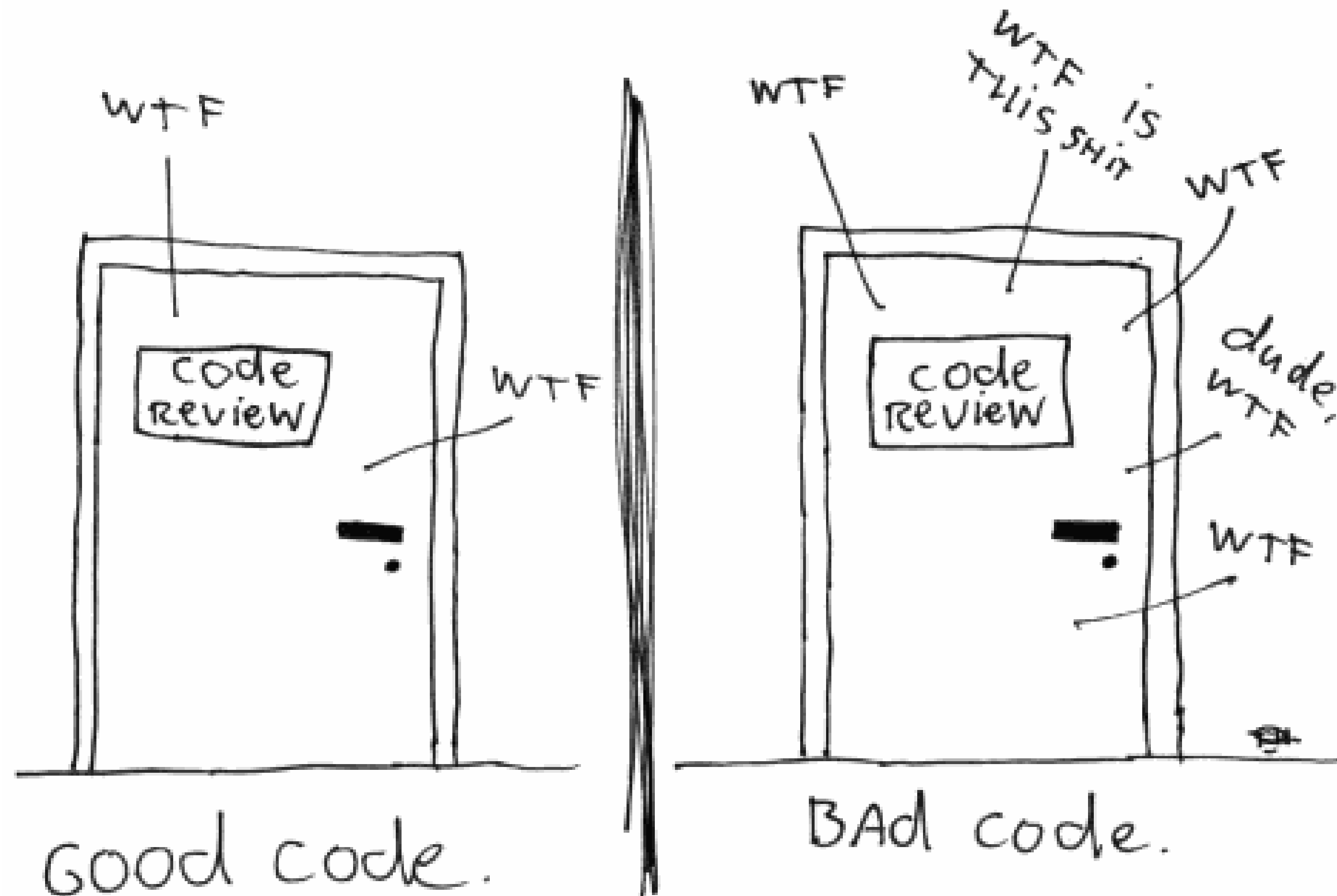


**VOCÊ ANALISA A QUALIDADE
DO SEU SOFTWARE?**



COMO?

The ONLY VALID MEASUREMENT
OF CODE QUALITY: WTFs/MINUTE

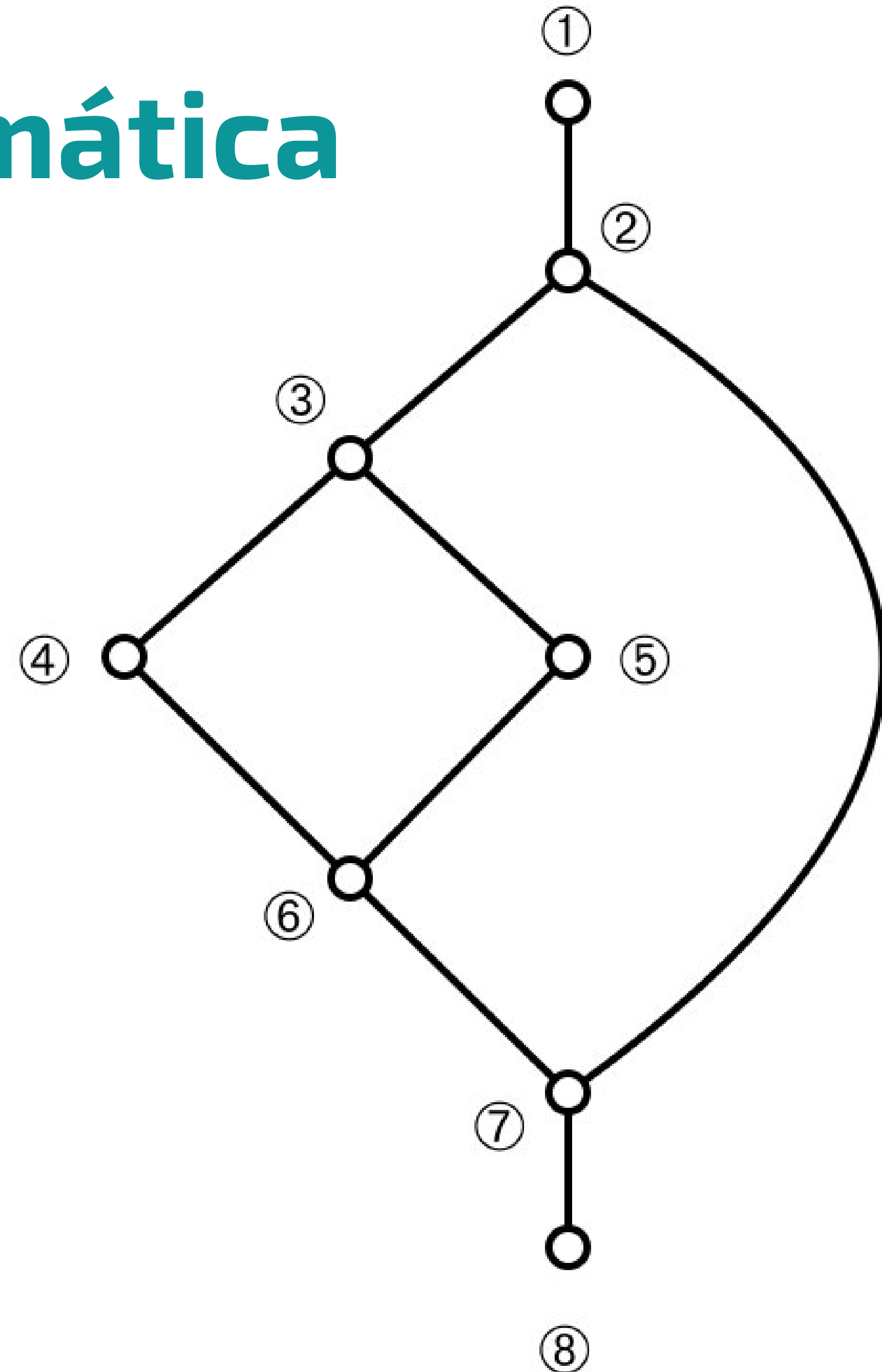




O QUE ESSAS FERRAMENTAS RESOLVEM?

1. Complexidade Ciclomática

```
① start  
② if (X) then  
③   if (Y) then  
④     perform A  
     perform B  
   else  
⑤     perform C  
     perform D  
⑥   endif  
⑦ endif  
⑧ end
```



```

function register()
{
    if (!empty($_POST)) {
        $msg = '';
        if ($_POST['user_name']) {
            if ($_POST['user_password_new']) {
                if ($_POST['user_password_new'] === $_POST['user_password_repeat']) {
                    if (strlen($_POST['user_password_new']) > 5) {
                        if (strlen($_POST['user_name']) < 65 && strlen($_POST['user_name']) > 1) {
                            if (preg_match('/^[a-z\d]{2,64}$/i', $_POST['user_name'])) {
                                $user = read_user($_POST['user_name']);
                                if (!isset($user['user_name'])) {
                                    if ($_POST['user_email']) {
                                        if (strlen($_POST['user_email']) < 65) {
                                            if (filter_var($_POST['user_email'], FILTER_VALIDATE_EMAIL)) {
                                                create_user();
                                                $_SESSION['msg'] = 'You are now registered so please login';
                                                header('Location: ' . $_SERVER['PHP_SELF']);
                                                exit();
                                            } else $msg = 'You must provide a valid email address';
                                        } else $msg = 'Email must be less than 64 characters';
                                    } else $msg = 'Email cannot be empty';
                                } else $msg = 'Username already exists';
                            } else $msg = 'Username must be only a-z, A-Z, 0-9';
                        } else $msg = 'Username must be between 2 and 64 characters';
                    } else $msg = 'Password must be at least 6 characters';
                } else $msg = 'Passwords do not match';
            } else $msg = 'Empty Password';
        } else $msg = 'Empty Username';
        $_SESSION['msg'] = $msg;
    }
    return register_form();
}

```



1. Complexidade Ciclomática

Refactor this method to reduce its Cognitive Complexity from 298 to the 15 allowed.

🚩 Code Smell 🚩 Critical +131

- 1 +1
- 2 +1
- 3 +1
- 4 +1
- 5 +1
- 6 +1
- 7 +1
- 8 +2 (incl 1 for nesting)
- 9 +3 (incl 2 for nesting)
- 10 +1
- 11 +1
- 12 +4 (incl 3 for nesting)
- 13 +5 (incl 4 for nesting)
- 14 +1
- 15 +5 (incl 4 for nesting)
- 16 +5 (incl 4 for nesting)
- 17 +5 (incl 4 for nesting)

154

155 hugo...

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```
public override ValidateOrderResponse ValidateSend(SendRequest sendRequest) {
```

Refactor this method to reduce its Cognitive Complexity from 298 to the 15 allowed. ... 7 month

🚩 Code Smell 🚩 Critical 🔄 Open 📌 Not assigned 🕒 10min effort 💬 Comment

```
    ValidateOrderResponse validateOrderResponse = new ValidateOrderResponse();
```

```
    ErrorReport errorReport = new ErrorReport();
```

```
    errorReport.ErrorItemCollection = new Collection<ErrorItem>();
```

```
1 if (string.IsNullOrWhiteSpace(sendRequest.AnalysisService.MerchantKeyOnAntiFra  
    errorReport.ErrorItemCollection.Add(new ErrorItem("EntityCode não foi info  
}
```

```
2 if (sendRequest.AnalysisService.IsStagingAgreement == null) {  
    errorReport.ErrorItemCollection.Add(new ErrorItem("IsStagingAgreement não  
}
```

```
    #region ShoppingCart
```

```
3 if (sendRequest.AnalysisShoppingCartCollection == null 4 || sendRequest.Anal
```

1. Complexidade Ciclomática

The screenshot displays a code editor with a C# method `ValidateSend` and two side-by-side panels showing a 'Code Smell' refactoring suggestion. The suggestion is titled 'Refactor this method to reduce its Cognitive Complexity from 298 to the 15 allowed.' and is marked as 'Critical' with a '+131' score. The left panel shows a list of 17 items, each with a number and a '+1' value, indicating the complexity contribution of different code blocks. The right panel shows the same suggestion with additional metadata: '7 months', 'Open', 'Not assigned', '10min effort', and a 'Comment' button. The code in the background is a C# method `ValidateSend` that takes a `SendRequest` parameter and returns a `ValidateOrderResponse`. It includes several nested loops and conditional statements, which contribute to its high cognitive complexity.

Refactor this method to reduce its Cognitive Complexity from 298 to the 15 allowed.

Code Smell Critical +131

1 +1

2 +1

3 +1

4 +1

5 +1

6 +1

7 +1

8 +2 (incl 1 for nesting)

9 +3 (incl 2 for nesting)

10 +1

11 +1

12 +4 (incl 3 for nesting)

13 +5 (incl 4 for nesting)

14 +1

15 +5 (incl 4 for nesting)

16 +5 (incl 4 for nesting)

17 +5 (incl 4 for nesting)

154 `public override ValidateOrderResponse ValidateSend(SendRequest sendRequest) {`

155 `ValidateOrderResponse validateOrderResponse = new ValidateOrderResponse();`

156 `ErrorReport errorReport = new ErrorReport();`

157 `errorReport.ErrorItemCollection = new Collection<ErrorItem>();`

158 `for (int i = 0; i < sendRequest.OrderItems.Count; i++)`

159 `{`

160 `if (sendRequest.OrderItems[i].IsApproved)`

161 `{`

162 `validateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

163 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

164 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

165 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

166 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

167 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

168 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

169 `validateOrderResponse.ValidateOrderResponse.ValidateOrderResponse = new ValidateOrderResponse();`

170 `}`

171 `}`

172 `return validateOrderResponse;`

173 `}`

Refactor this method to reduce its Cognitive Complexity from 298 to the 15 allowed.

Code Smell Critical +131

1 +1

2 +1

1. Complexidade Ciclomática

```
1 if (string.IsNullOrWhiteSpace(sendRequest.AnalysisService.MerchantKeyOnAnt
    errorReport.ErrorItemCollection.Add(new ErrorItem("EntityCode não foi
})

2 if (sendRequest.AnalysisService.IsStagingAgreement == null) {
    errorReport.ErrorItemCollection.Add(new ErrorItem("IsStagingAgreement
})

#region ShoppingCart
3 if (sendRequest.AnalysisShoppingCartCollection == null 4 || sendRequest.
```

2. Código Duplicado

```
public class CustomerNameChanger
{
    public void ChangeName(CustomerDbContext context, int customerId, string name)
    {
        var customer = context.Customer.SingleOrDefault(x => x.CustomerId == customerId);
        if(customer == null)
            throw new Exception(string.Format("Customer {0} was not found.", customerId));

        customer.Name = name;
    }
}

public class CustomerAddressChanger
{
    public void ChangeAddress(CustomerDbContext context, int customerId, string address,
        string postalCode, string city)
    {
        var customer = context.Customer.SingleOrDefault(x => x.CustomerId == customerId);
        if(customer == null)
            throw new Exception(string.Format("Customer {0} was not found.", customerId));

        customer.Address = address;
        customer.PostalCode = postalCode;
        customer.City = city;
    }
}
```

Duplicated Code

Ctrl

+

C

Ctrl

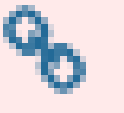
+

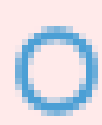
V

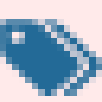
3. Vulnerabilidades e Code Smell

```
private const string StagingCertificatePassword = "some^ss4$<";
```

Remove hard-coded password(s): 'password'. ...

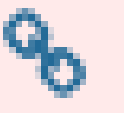
7 months ago ▼ L16 

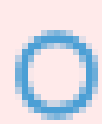
 Vulnerability ▼  Blocker ▼  Open ▼ Not assigned ▼ 30min effort [Comment](#)

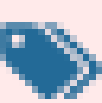
 cert, cwe, owasp-a2, sans-top25-porous ▼

```
private const string CertificatePassword = "rjspbhpoa321%$";
```

Remove hard-coded password(s): 'password'. ...

7 months ago ▼ L18 

 Vulnerability ▼  Blocker ▼  Open ▼ Not assigned ▼ 30min effort [Comment](#)

 cert, cwe, owasp-a2, sans-top25-porous ▼

3. Vulnerabilidades e Code Smell

Function `sweetAlert` has 573 lines of code (exceeds 25 allowed).
Consider refactoring. OPEN

```
1651 var sweetAlert = function sweetAlert() {  
1652     for (var _len = arguments.length, args = Array(_len), _key = 0; _key < _len;  
1653         args[_key] = arguments[_key];  
1654     }  
1655  
1656
```

●●● Found in `assets/javascripts/front/built.js` - About 2 days to fix

Remove this commented out code.

```
17 //var docsDescription = AppDomain.CurrentDomain.BaseDirectory + "/Docs/DOCS-DESCRIPTION.md";
```

4. Padronização e Estilo

Mixed spaces and tabs. (no-mixed-spaces-and-tabs)

```
122 , installmentsByFlagContainer           = this.installmentsByFlag.closest( 'tr' )
```

Strings must use doublequote. (quotes)

```
17 if ( 'function' === typeof callback ) {
```

Expected method shorthand. (object-shorthand)

```
148 decodeUrl: function(url) {
```

4. Padronização e Estilo

```
if (string.IsNullOrEmpty(request.CurrentKey) == true) {
```

Remove the unnecessary Boolean literal(s). ...

 Code Smell ▼  Minor ▼  Open ▼ Not assigned ▼ 5min effort [Comment](#)

```
// TODO: UNIFICAR ESSES MALDITOS STAGINGS!!!
```

Complete the task associated to this 'TODO' comment. ...

 Code Smell ▼  Info ▼  Open ▼ Not assigned ▼ [Comment](#)

4. Padronização e Estilo

```
RefundResponse response = new RefundResponse(); ;
```

Remove this empty statement. ...

 Code Smell ▼  Minor ▼  Open ▼ Not assigned ▼ 2min effort [Comment](#)

```
/// Verify
```

```
public VerifyResponse Verify(VerifyRequest request)
```

Rename parameter 'request' to 'verifyRequest' to match the interface declaration. ...

 Code Smell ▼  Critical ▼  Open ▼ Not assigned ▼ 10min effort [Comment](#)

5. Débito Técnico

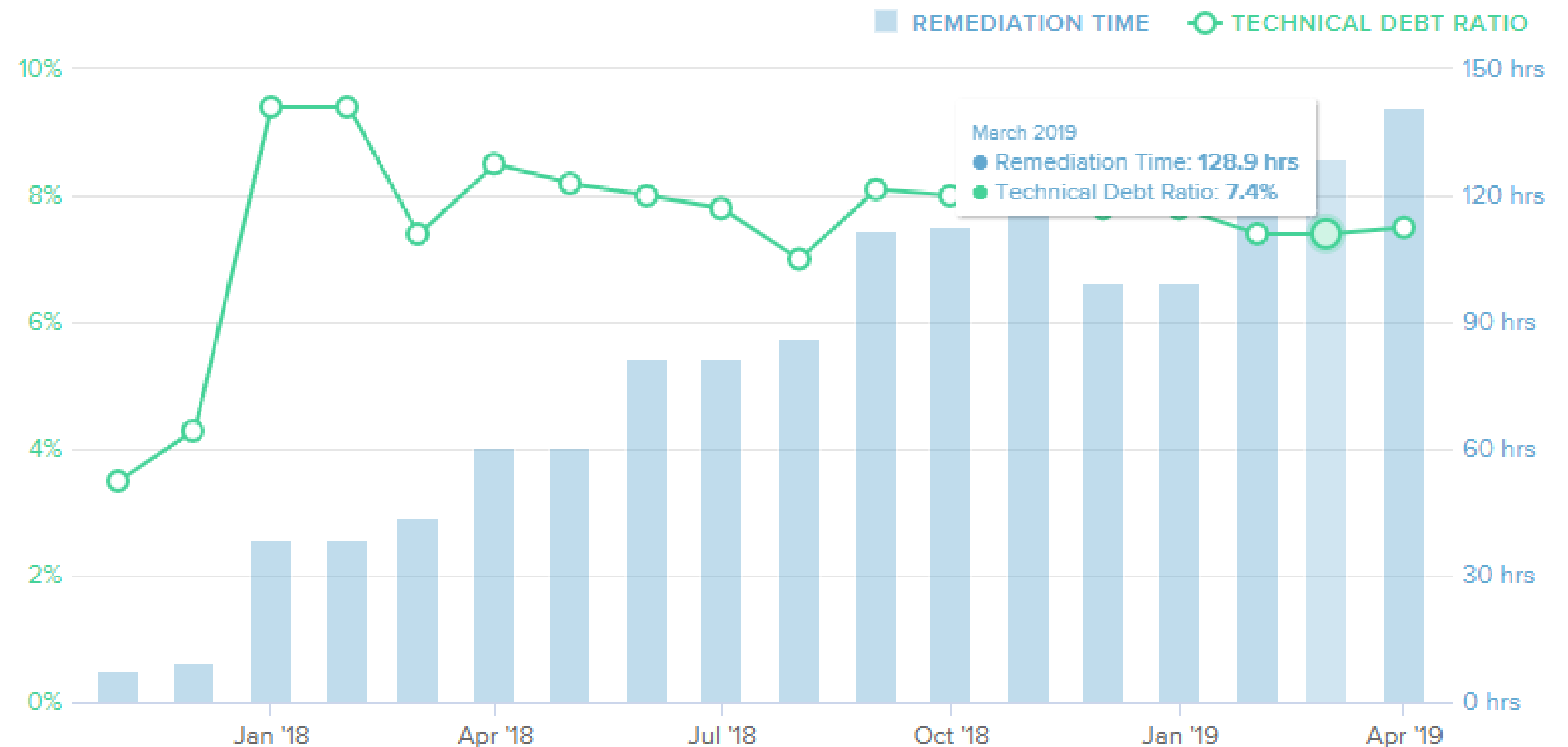
MAINTAINABILITY

Technical debt

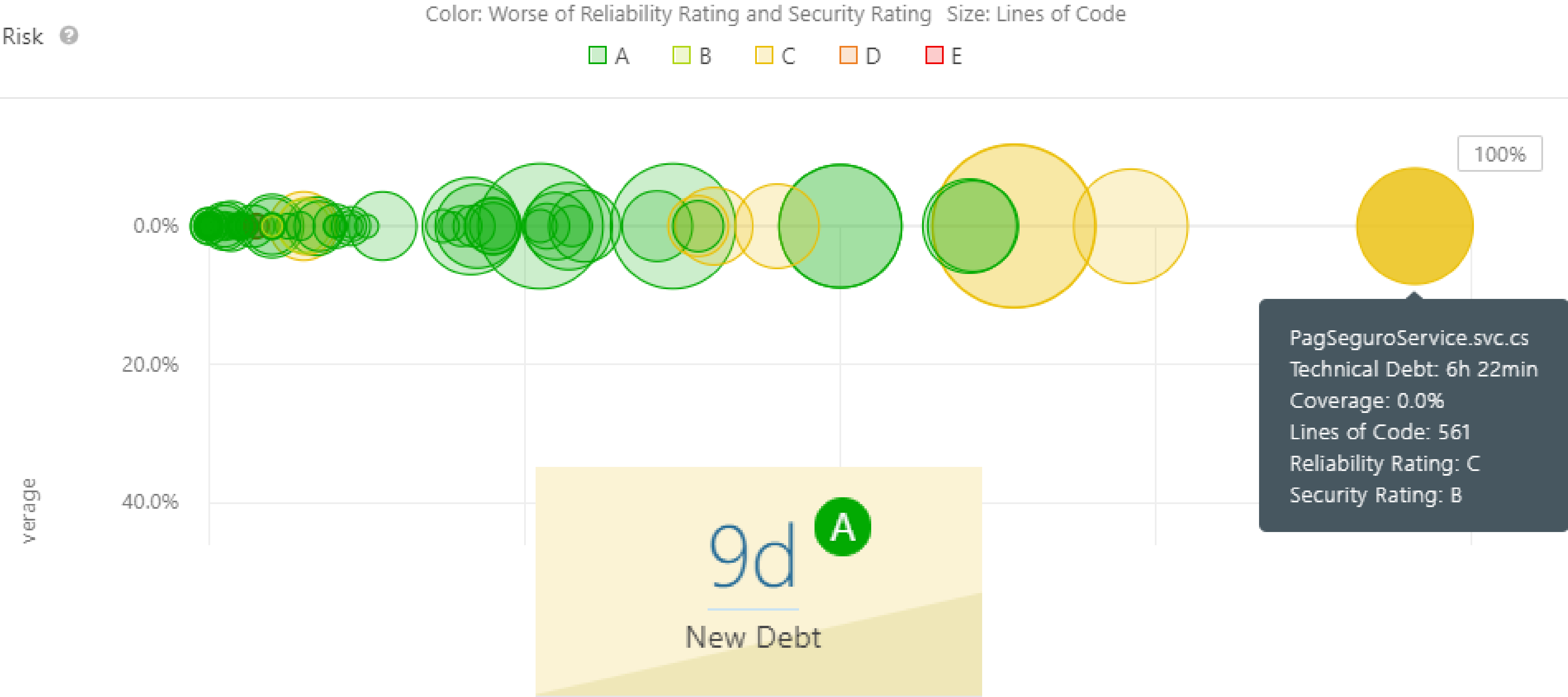
Lines of code

Churn vs. maintainability

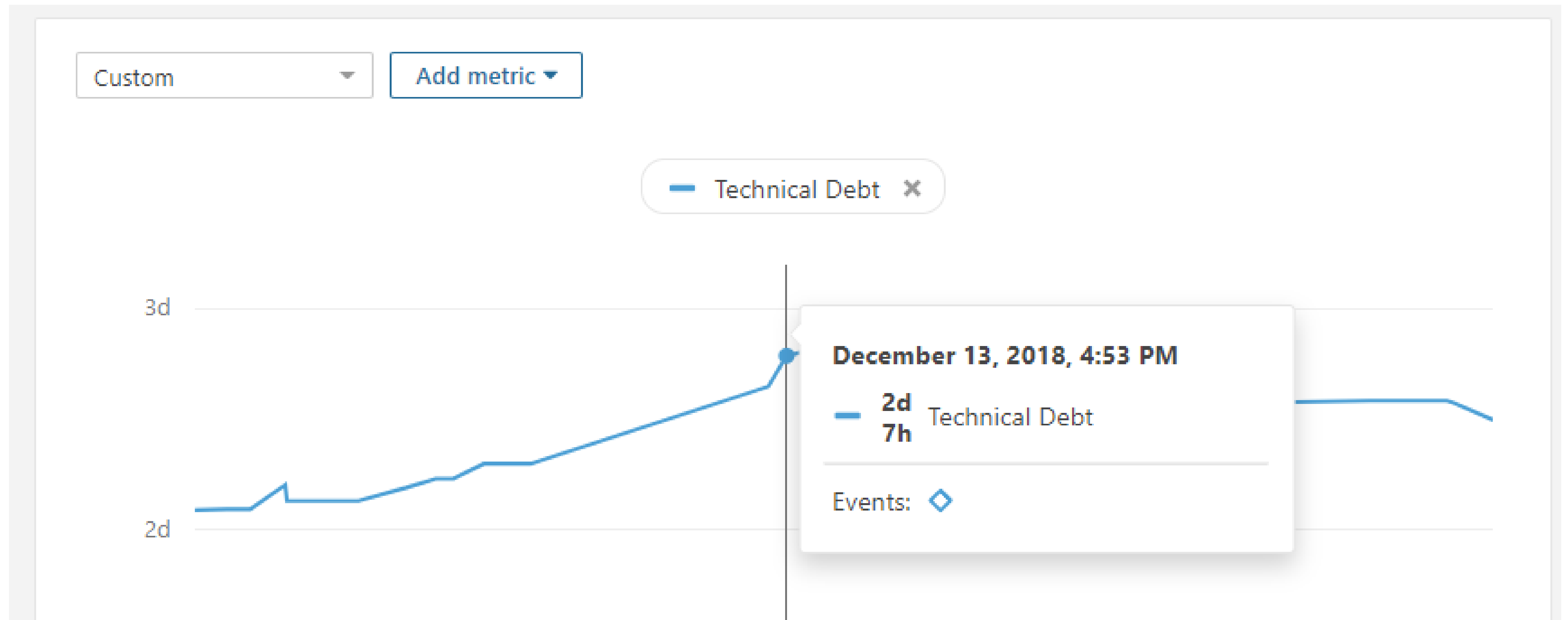
Technical Debt



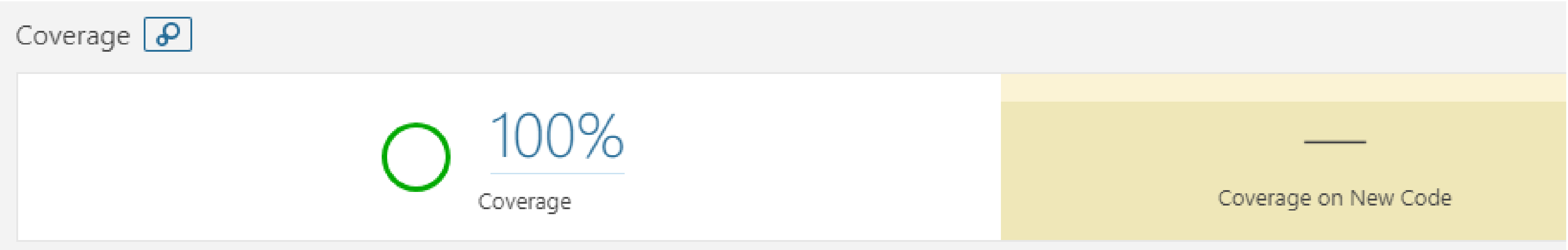
5. Débito Técnico



5. Débito Técnico



6. Cobertura de Testes



Codebase summary

MAINTAINABILITY



TEST COVERAGE



Code Climate



Codacy



Sonarqube



6. Cobertura de Testes

External/OccClient/Models/BaseOrder.cs	20.9%	109
Models/Response/OccCallbackResponse.cs	40.0%	30
Models/Order.cs	49.2%	33
Models/Request/OccRedirectRequest.cs	50.0%	1
Models/Request/OccCardCallbackRequest.cs	53.3%	7
Models/Request/BaseOccCallbackRequest.cs	75.0%	5

81		<code>var totalAmount = GetTotalAmountInCentsPerInstallment(amount, instal:</code>
82		
83		<code>// Validate min amount</code>
84		<code>if (IsMinAmountAllowedForInstallment(account.Configuration, totalAmo</code>
85		<code>{</code>
86		<code> break;</code>
87		<code>}</code>
88		
89		<code>// Generate installment</code>
90		<code>installments.Add(new CreateCheckoutCardInstallmentOptionRequest())</code>
91		<code>{</code>

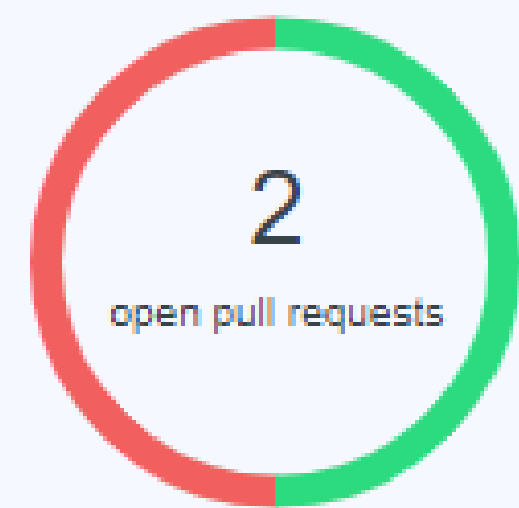
7. Métricas

Issues breakdown

889 total issues

Category	Total
Security	20
Error Prone	26
Code Style	816
Compatibility	0
Unused Code	27
Performance	0

Pull requests status



Not up to standards 1

Up to standards 1

See all pull requests

 mundipagg / magento2

< Team

Dashboard

Commits

Files

Issues

Pull Requests

Security

Code patterns

Settings

magento2 master

Badge

Share

B

Project certification

Quality evolution

Last 7 daysLast 31 days

Issues 11% =

Complex Files 0% =

Duplicated code 9% ^1%

Coverage -

Trend for the next 31 days

Pull request prediction

Quality standard

2324252627282930311234567891011121314151617181920212223

APRIL

Days

Total LoC 21794 =0%

Total Issues 878 =0%

Code Style 808 =0%

7. Métricas

sonarcloud

Explore

Search for projects and files...

TB

Thiago Barradas

/

jsonmasking

master

March 26, 2019, 12:15 AM

Version 1

Overview

Issues

Security Reports

Measures

Code

Activity

Quality Gate

Passed

Bugs

Vulnerabilities

0

A

Bugs

0

A

Vulnerabilities

New code: last 30 days

0

A

New Bugs

0

A

New Vulnerabilities

Code Smells

10min

A

Debt

2

Code Smells

0

A

New Debt

0

New Code Smells

Coverage

100%

Coverage

Coverage on New Code

About This Project

No tags

XS 65

Lines of Code

C# 65

Project Activity

March 26, 2019

1.1.17

March 25, 2019

1.1.16

March 14, 2019

1.1.15

Show More

Quality Gate

7. Métricas

 CODE CLIMATE

[Product](#) 

[Pricing](#)

[Developers](#)

Sign up

ThiagoBarradas/jsonmasking 

Overview

Progress

Issues

Code

Trends

Last  master build 2 days ago

Breakdown

14 FILES



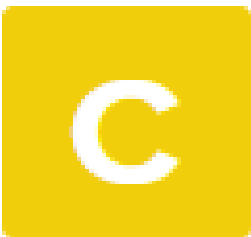
MAINTAINABILITY



TEST COVERAGE

Codebase summary

MAINTAINABILITY



1 day

TEST COVERAGE



99%

Repository stats

CODE SMELLS

2

DUPLICATION

5

OTHER ISSUE

0



PROTEGENDO SEUS PULL-REQUEST

☒ **Require status checks to pass before merging**

Choose which [status checks](#) must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.

☒ **Require branches to be up to date before merging**

This ensures [pull requests](#) targeting a matching branch have been tested with the latest code. This setting will not take effect unless at least one status check is enabled (see below).

Status checks found in the last week for this repository

☒ Codacy/PR Quality Review	Required
☒ SonarCloud Code Analysis	Required
☒ codeclimate	Required
☒ codeclimate/diff-coverage	Required
☒ codeclimate/total-coverage	Required
☒ codecov/patch	Required
☒ codecov/project	Required



All checks have passed

9 successful checks

[Hide all checks](#)



Codacy/PR Quality Review — Up to standards. A positive pull request.

[Details](#)



SonarCloud Code Analysis Successful in 9s — Quality Gate passed

[Details](#)



codeclimate — All good!

[Details](#)



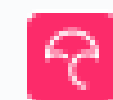
codeclimate/diff-coverage — 100% (50% threshold)

[Details](#)



codeclimate/total-coverage — 99%

[Details](#)



codecov/patch — Coverage not affected when comparing 45266f1...d334941

[Details](#)



codecov/project — 100% remains the same compared to 45266f1

[Details](#)



continuous-integration/appveyor/branch — AppVeyor build succeeded

[Details](#)



continuous-integration/appveyor/pr — AppVeyor build succeeded

[Details](#)



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



<https://tinyurl.com/qualidade-codigo>

<https://medium.com/thiagobarradas>

<https://github.com/ThiagoBarradas/jsonmasking>





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Obrigado!