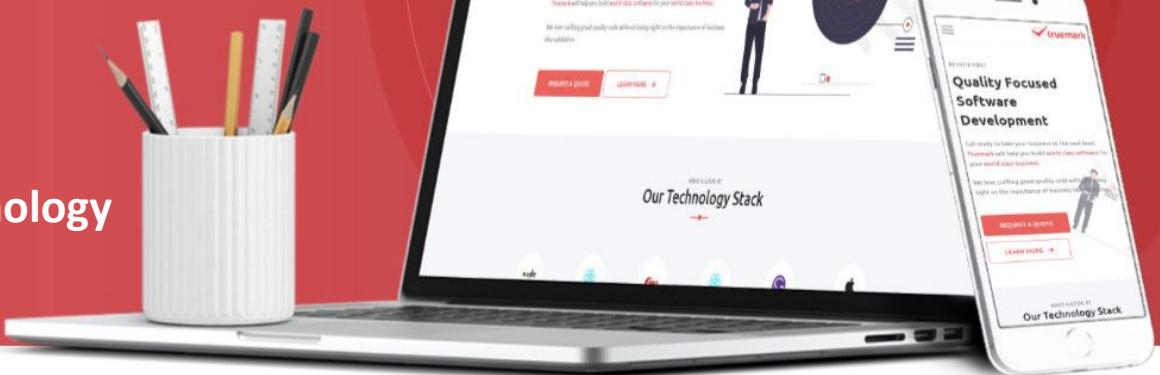




# CODING STANDARDS

BY PRABIN POUDEL  
CEO @ Truemark Technology





# truemark | What is Coding Standards?

Set of guidelines created by companies that developers can follow to write consistent code throughout all projects inside that company.

Some examples:

- Guidelines to maintain Folder Structure
- Naming convention for variables, constants and functions
- Length of the function, etc..



- Makes the code consistent and easy to maintain
- Easier to onboard new developers to the project
- Lets developers focus on logical discussions in Pull Requests



- Standards don't prevent bugs
- Consumes more time in the beginning
- Standards should be reviewed from time to time



- Static Code Analyzers
- Git Hooks
- Continuous Integration



- Configuration analysis and finds problems inside the code(s) based on rules configured inside the

### Tools we use at Truemark:

- RuboCop for Ruby



## Git Hooks

- Standardizes repository hooks to either particular tools or security analyzers Git repository. coding



- Enforce coding standards with packages like RuboCop and ESLint
- Check the commit message and verify if they meet standards set by the guidelines in the company
- E.g. Every commit message is descriptive in our company and includes: link to the Trello card, list of tasks completed in the branch

Trello

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<https://trello.com/c/sx7GvtR2/405-super-admin-should-be-able-to-archive-export-requests>

Tasks

---

- Update number porting request serializer to include condition for can\_archive of export requests
- Fix translations issue in export status notification mailer action



## Pre Commit Hooks in Rails - Overcommit

- ~~Fail the commit stage and abort if git commit fails~~ if there are errors else commit is successful

```
"  
Running pre-commit hooks  
Analyze with RuboCop..... [RuboCop] FAILED  
Errors on modified lines:  
/Users/cool/projects/flexonet/dashboard-app/flexonet-api/spec/models/number_porting_request_phone_number_spec.rb:17:1: C: [Correctable] Layout/TrailingWhitespace: Trailing whitespace detected.  
  
✗ One or more pre-commit hooks failed  
  
/n/E/da/Flexonet/api | features/383 - cell numbers *15*6 | git add  
1 app | 3c | 2 7 0 .rb | 06:15:23 PM
```



# Pre Commit Hooks in ReactJS - Husky

```
/Users/cool/projects/personal/husky-installation-test/src/reportWebVitals.js
2:1  error  Expected indentation of 1 tab but found 2 spaces  indent
3:1  error  Expected indentation of 2 tabs but found 4 spaces  indent
3:12 error  Strings must use doublequote  quotes
4:1  error  Expected indentation of 3 tabs but found 6 spaces  indent
5:1  error  Expected indentation of 3 tabs but found 6 spaces  indent
6:1  error  Expected indentation of 3 tabs but found 6 spaces  indent
7:1  error  Expected indentation of 3 tabs but found 6 spaces  indent
8:1  error  Expected indentation of 3 tabs but found 6 spaces  indent
9:1  error  Expected indentation of 2 tabs but found 4 spaces  indent
10:1 error  Expected indentation of 1 tab but found 2 spaces  indent

/Users/cool/projects/personal/husky-installation-test/src/setupTests.js
5:8  error  Strings must use doublequote  quotes

✖ 48 problems (48 errors, 0 warnings)
  45 errors and 0 warnings potentially fixable with the `--fix` option.

husky - pre-commit hook exited with code 1 (error)
→ ~/projects/personal/husky-installation-test (master) x
```

- CI can be used to check coding standards, run tests, etc..
- Coding Standards can be enforced using CI if they are by-passed by developers locally by disabling pre-commit hooks
- Tests are also normally run in the CI instead of forcing it with pre-commit hooks in local due to time constraints
- We normally use Gitlab CI at Truemark due to most of our projects being hosted in Gitlab
- We use **pronto** for Rails and **reviewdog** for ReactJS to post messages in PRs as a comment for coding standards violations

- Pronto is a gem that is used to run RuboCop using CI and post errors as a comment in the merge request

Master Shifu @master-shifu started a thread on an old version of the diff 1 year ago ▲ Toggle thread  
Resolved by Prabin Poudel 1 year ago

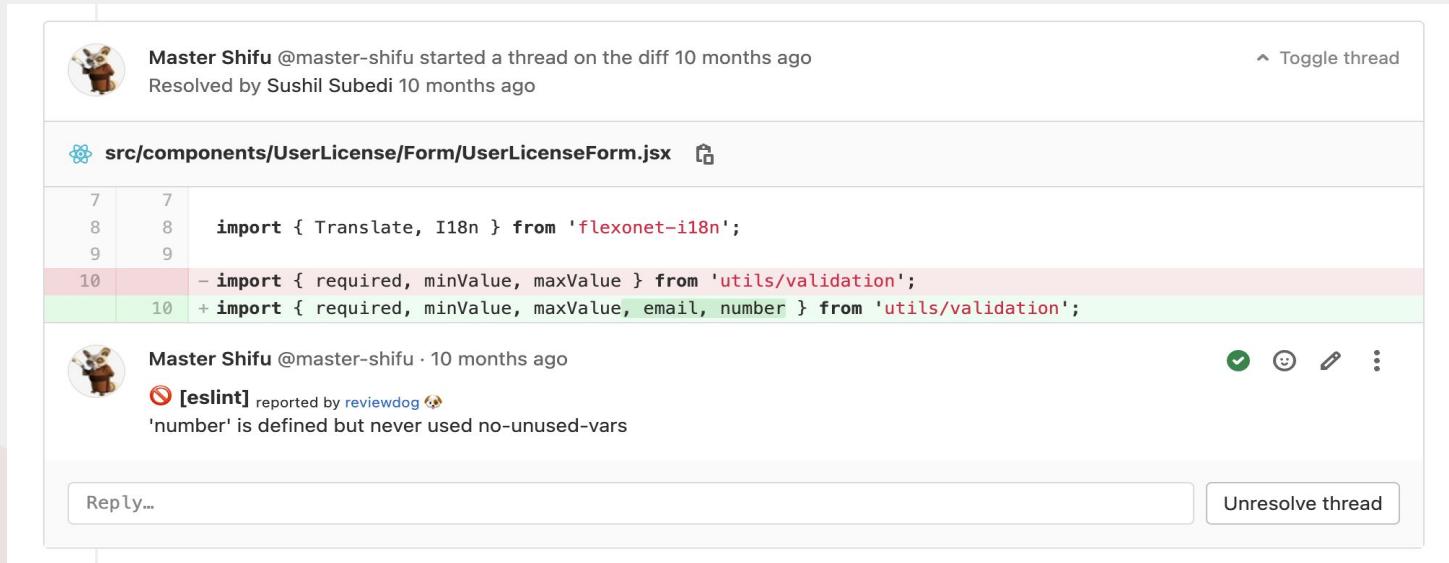
⌚ **app/models/agreement.rb** 

113	113	<i># archive all related subscriptions if agreement is archived</i>
114	114	<i>if saved_change_to_is_archived? &amp;&amp; is_archived</i>
115	115	<i>subscriptions.active.update(is_archived: true, end_date: Time.zone.now, archived_date: Time.zone.now)</i>
116	+	

Master Shifu @master-shifu · 1 year ago Layout/TrailingWhitespace: Trailing whitespace detected.    

Prabin Poudel @pp changed this line in [version 9 of the diff](#) 1 year ago

- Similar to Pronto, Review Dog is a JS package that comments errors thrown by ESLint to the merge request.



Master Shifu @master-shifu started a thread on the diff 10 months ago

Resolved by Sushil Subedi 10 months ago

Toggle thread

`src/components/UserLicense/Form/UserLicenseForm.jsx`

```
7 7
8 8 import { Translate, I18n } from 'flexonet-i18n';
9 9
10 - import { required, minValue, maxValue } from 'utils/validation';
10 + import { required, minValue, maxValue, email, number } from 'utils/validation';
```

Master Shifu @master-shifu · 10 months ago

🚫 [eslint] reported by reviewdog 🐕

'number' is defined but never used no-unused-vars

Reply... Unresolve thread

I have written about configuring some of these processes in my blog, you can read them below:

1. RuboCop with Rails: <https://prabinpoudel.com.np/articles/beginners-guide-to-rubocop-in-rails/>
2. ESLint with ReactJS:  
<https://medium.com/how-to-react/config-eslint-and-prettier-in-visual-studio-code-for-react-js-development-97bb2236b31a>
3. Pre Commit Hook for Rails (Overcommit):  
<https://prabinpoudel.com.np/articles/run-rubocop-on-git-commit-with-overcommit-gem/>
4. Pre Commit Hook for ReactJS (Husky + Lint Staged):  
<https://prabinpoudel.com.np/articles/run-eslint-on-git-commit-with-husky-and-lint-staged/>
5. CI Tool for Rails (Pronto):  
<https://prabinpoudel.com.np/articles/integrate-pronto-with-gitlab-ci-for-rails-app/>
6. CI Tool for ReactJS (Review Dog):  
<https://dev.to/coolprobn/automated-code-review-for-reactjs-applications-276p-temp-slug-321113?preview=4acf30b673d6f8b2ed74c50cc89c961b82ebea4e91db7c44ca08f8b92c99bc2219fda7952c69877c42e446c6c97333281aff5ebdf50df6afc234c9dd> (WIP)



# THANK YOU



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Technologies: Spree | Reactjs | Gatsby Js | Ruby on Rails

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[www.truemark.dev](http://www.truemark.dev)