

Code-Checker (ESLint Plugin) – Setup & Usage Guide

Code-Checker is a custom ESLint plugin used to enforce code quality, architecture standards, and API best practices across projects.

Installation

1. Install the required packages:

```
npm install eslint-plugin-code-checker  
npm install typescript (if needed)
```

2. Initialize Code-Checker in the project:

```
npx code-checker init
```

3. Stage and commit to verify that ESLint is working correctly:

```
git add .  
git commit
```

4. To run ESLint on all project files:

```
npx eslint .
```

Pre-commit Hook (lint-staged)

Code-Checker integrates with Husky and lint-staged to automatically run ESLint on staged files before every commit. This ensures that only compliant code is committed to the repository.

Current Applicable Rules

The following custom rules are currently enforced by Code-Checker:

- **no-console-left** – Prevents leftover `console.log` and debugging statements
- **require-try-catch-api** – Enforces the use of `try-catch` blocks in API handlers
- **warning-paginate-false** – Warns the use of `paginate: false`
- **limit-includes-api** – Limits API `includes` usage to a maximum of three (3)

The actual rule configuration and severity levels are maintained in the different project ESLint configuration repository.

Configuration & Rule Management (Code-Checker Repository)

All rule definitions, additions, and updates are maintained **within eslint-plugin-code-checker repository**.

This repository serves as the source of truth for:

- Adding new custom ESLint rules
- Modifying existing rule logic
- Maintaining rule standards and validations

Projects that consume Code-Checker only enable or disable these rules through their ESLint configuration. Any changes to rule behavior must be implemented in this repository.

Recommended Workflow

- Rely on pre-commit hooks for immediate feedback
- Run `npx eslint .` before submitting pull requests
- Address lint issues locally prior to pushing changes

Sample Logs:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

beespoke-mac@beespoke-macs-Mac-mini lms-web % npx eslint .
/Users/beespoke-mac/Desktop/MSU-NAAWAN/LMS/lms-web/components/requests/CreateModal.vue
115:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
118:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
145:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
161:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left

Open file in editor (cmd + click) /U-NAAWAN/LMS/lms-web/components/syllabus/Drawer.vue
132:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
140:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left

/Users/beespoke-mac/Desktop/MSU-NAAWAN/LMS/lms-web/components/tasks/QuestionContent.vue
183:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
185:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
192:5   error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left

/Users/beespoke-mac/Desktop/MSU-NAAWAN/LMS/lms-web/components/tasks/QuestionnaireModal.vue
238:9  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
316:13  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left

/Users/beespoke-mac/Desktop/MSU-NAAWAN/LMS/lms-web/components/tasks/QuizExamContainer.vue
131:5  error ✘ console logs are not allowed. Please clear console logs  code-checker/no-console-left
```

Future Enhancements (Planned Rules)

Additional logic-focused rules may be introduced in future versions, such as:

- **no-hardcoded-role-checks**
Avoid hardcoded role checks (e.g., `user.role === 'ADMIN'`). Use role constants or permission checks instead.
- **no-direct-status-mutation**
Prevent direct updates to status fields without proper validation.
- **require-null-check-before-access**
Require null/undefined checks (or optional chaining) before accessing nested properties (e.g., `user.profile.name`).
- **no-business-logic-in-controller**
Discourage heavy business logic inside controllers; move logic to service layers.
- **require-transaction-on-multi-write**
Enforce the use of transactions when performing multiple database write operations.
- **no-magic-numbers-domain**
Prevent the use of magic numbers in domain logic (e.g., `status === 3`). Use enums or constants instead.

These rules are planned for future releases and may be added as the project's logic validation requirements evolve.