

CODE QUALITY ANALYSIS

Overview

The Client is a US-based car company. It designs, manufactures, and sells smart and connected premium electric vehicles, driving innovations in next generation technologies in connectivity, autonomous driving and artificial intelligence.

Business Need

- ▼ To improve the quality of code and code coverage
- ✓ To maintain coding standards and coding conventions
- ✓ To reduce complexity of code and easy understanding of code
- Improve coverage and prevent defect leakages into production to ensure world class quality product
- ⊙ To thoroughly review Source code in order to discover hidden vulnerabilities and design flaws

Client Situation

- Customer experienced several code quality issues with its development team
- Coding conventions and coding standards were not properly done by Dev team because of timelines.
- While executing the scripts faced code defects and bugs
- Code refactoring is inconsistent and no clarity of script so that if anyone wants to see the code who isn't the creator of the code not able to understand it.



Recommended Solution

- DevRabbit developed a solution, whenever code pushes into Jenkins it will triggers a job where it verifies all the code flaws, coding standard deviation, consistency of code
- After verification of the code, Jenkins will generate reports that provide solutions
- This will execute in less than a minute and we are making sure that defective code is not pushed into production



Results

- Reduce risk of defects due to enhanced coverage

- Produce code review reports that include an executive summary that lists strengths and weakness and provides detailed findings that include precise code based solutions and fixes



Technologies

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