MISRA C REPORT

Remaining Violations:

Rule 4.8 - Length of Identifiers:

Violation & Reflection: Max length exceeded. Identifiers in the codebase exceed the maximum recommended length, potentially impeding code readability and comprehension. Lengthy identifiers can increase the cognitive load on developers and make code maintenance challenging. Resolving this entails revising identifiers to adhere to the prescribed maximum length, improving code clarity and facilitating easier maintenance. Unresolved due to resource constraints and prioritization of critical tasks.

Rule 5.7 - Comments:

Violation & Reflection: No comment with variable declaration. Variables lack accompanying comments explaining their purpose, usage, and constraints, diminishing code comprehensibility and maintainability. Addressing this involves updating the code to include descriptive comments for each variable declaration, enhancing code readability and easing future modifications. Unresolved due to time constraints and prioritization of critical functionalities over documentation improvements.

Rule 6.3 - Duplicate Code:

Violation & Reflection: Duplicate code found in file. Identical or nearly identical code segments exist within the same file, leading to redundancy, increased maintenance efforts, and potential inconsistencies. Mitigating this violation necessitates identifying and extracting duplicate code into reusable functions or modules, promoting code reuse and enhancing maintainability. Unresolved due to time constraints and prioritization of critical bug fixes and feature enhancements.

Rule 8.7 - Functions:

Violation & Reflection: Comment appears to contain code. Comments within the codebase contain snippets resembling code, which can mislead developers and compromise code clarity and correctness. Rectifying this involves reviewing and revising comments to ensure they only contain descriptive text and do not resemble code snippets. Unresolved due to resource limitations and prioritization of functional improvements over code documentation