Smart Contract Audit Report: Proxy Contract

This report presents a consolidated analysis of the provided Solidity contract, focusing on potential vulne

- **1. Compiler Version Mismatch**
- **Severity:** High
- **Description:** The contract's pragma directive specifies a compiler version range of `>=0.6.2 <0.8.0`,
- **Impact:** This vulnerability could lead to the contract being deployed with outdated or incompatible by
- **Mitigation:** Update the pragma directive to match the compiler version used for deployment or upgra
- **2. Potential for Underflows in SafeMath Library**
- **Severity:** Medium
- **Description:** While the SafeMath library aims to prevent overflows, it doesn't explicitly handle underfl
- **Impact:** If an underflow occurs in a critical operation, it could lead to incorrect calculations, unexpect
- **Mitigation:** Review the code to ensure that all arithmetic operations are safeguarded against underflo
- **3. No Validation of User Input in `batchExec` Function**
- **Severity:** Medium
- **Description:** The `batchExec` function doesn't perform any validation on the input provided by the us
- **Impact:** An attacker might exploit this vulnerability by supplying invalid data to manipulate the execu
- **Mitigation:** Implement robust input validation in the `batchExec` function to sanitize the incoming dat
- **4. Unchecked `delegatecall` in `_exec` Function**
- **Severity:** Low
- **Description:** The `_exec` function utilizes `delegatecall`, a low-level function that can modify the cor
- **Impact:** An attacker might exploit vulnerabilities in the called contract through `delegatecall`, potentia
- **Mitigation:** Carefully audit the code to ensure that the `delegatecall` is used responsibly and secure
- **5. No Control Over the Number of Operations in a Batch**
- **Severity:** Low
- **Description:** There's no limit imposed on the number of operations executed in a batch. This lack of
- **Impact:** A malicious user might submit a batch with a large number of operations, exhausting the ava
- **Mitigation:** Implement a mechanism to cap the number of operations allowed in a batch, preventing
- **6. Lack of Events**
- **Severity:** Low
- **Description:** The contract doesn't emit events for important actions, making it challenging to track an
- **Impact:** This lack of transparency makes it difficult to track and audit the contract's behavior.
- **Mitigation:** Integrate event emissions to provide clear visibility into significant actions performed by the
- **Overall Security Posture:**

While the contract lacks critical vulnerabilities like reentrancy or access control issues, the identified vulnerabilities are control issues.

^{**}Recommendation:**

It is strongly recommended to address the identified vulnerabilities and implement the suggested mitiga	tie