

Single-Pass System Template

This document provides a detailed template outlining the single-pass system for rifting from Riftlang through LibRift to Gosilang, all linked with a Nexus linker.

# 1. Riftlang to LibRift Rifting

This section describes the process of rifting from Riftlang to LibRift.

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| Step | Description | Input | Output |
| --- | --- | --- | --- |
| 1 | Initiate Riftlang parser | Riftlang code | Parsed Riftlang object |
| 2 | Translate to LibRift representation | Parsed Riftlang object | LibRift compatible data structure |
| 3 | Verify data integrity | LibRift data structure | Verification report |
| 4 | Store in LibRift database | Validated LibRift data | Database entry |

# 2. LibRift to Gosilang Transformation

This section details the transformation process from LibRift to Gosilang.

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* **Substep 1:** Data retrieval from LibRift.
* **Substep 2:** Data transformation to Gosilang format.
* **Substep 3:** Validation of Gosilang data.

# 3. Linking with Nexus Linker

Here, we explain how the Nexus linker connects all components.

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| Component | Linking Process | Dependency | Status |
| --- | --- | --- | --- |
| Riftlang | Connect via Nexus API call | Nexus Linker API | Active |
| LibRift | Link database with Nexus | Nexus Database Connector | Connected |
| Gosilang | Integration through Nexus adapter | Gosilang Nexus Adapter | Pending |

# 4. Testing and Validation

This part outlines the testing and validation procedures.

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1. Unit testing of each component.
2. Integration testing of the entire system.
3. Performance testing under load.