Psi CLI Language

HsiangNianian
Department of Computer Science
University of RBQ U.
i@jyunko.cn

***Abstract*—Psi is a new programming language designed with simplicity, flexibility, and performance in mind. It provides a clean and intuitive syntax that is easy to read and write, making it an excellent choice for both beginners and experienced programmers.**

I. Introduction

This section introduces the Psi CLI language and its features.

II. Features

This section describes the key features of the Psi CLI language.

A. Lexer Module

The lexer module is responsible for converting source code into a sequence of tokens. It recognizes the basic elements of the language such as identifiers, keywords, operators, and literals.

TABLE I
Code Tokens and Corresponding Meanings

Token	Meaning
list	TYPE
colors	IDENTIFIER
=	EQUALS
red	IDENTIFIER
,	COMMA
blue	IDENTIFIER
,	COMMA
green	IDENTIFIER

B. Parser Module

The parser module converts the token sequence into an abstract syntax tree (AST).

C. Built-in Types Module

The built-in types module defines the built-in types of the Psi language, such as lists and dictionaries.

D. Error Handling Module

The error handling module provides mechanisms for capturing and handling errors at runtime.

E. Execution Environment Module

The execution environment module defines the execution environment of the Psi language.

F. Interpreter Module

The interpreter module executes operations based on the AST within the execution environment.

G. Mathematics Foundation Module

The mathematics foundation module provides basic mathematical functions and constants.

H. Documentation Module

The documentation module provides API interface descriptions and usage examples.

III. Getting Started

This section explains how to get started with the Psi CLI language.

IV. Keywords

This section lists the keywords used in the Psi CLI language.

V. Contribution

This section outlines how to contribute to the Psi project.

VI. License

This section provides information about the license of the Psi CLI language.

Acknowledgment

The authors would like to thank...

References

[1] Reference 1
[2] Reference 2