



CREATING SIMPLE JAVASCRIPT RUNTIME

TEAM NAME : INNOVATORS

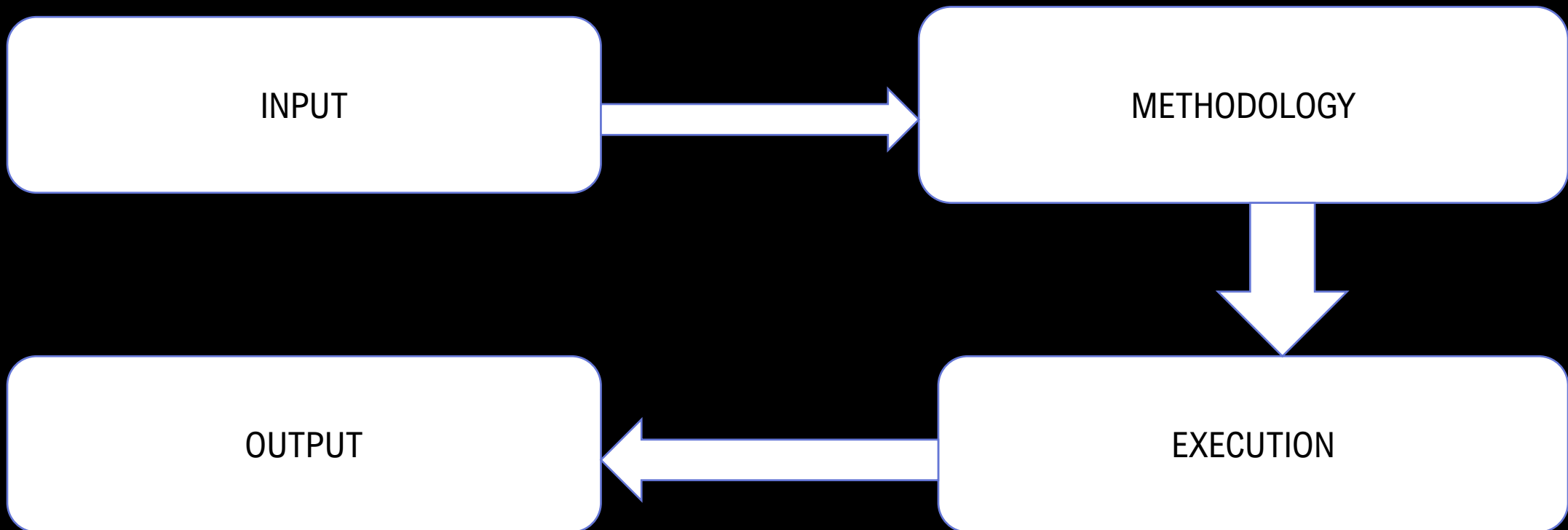
STATEMENT

- To create a simple javascript runtime and create a simple of our own.
- Modern javascript was written similarly to C++

OBJECTIVE

- To create a simple javascript
- To execute the code and learn

FLOW DIAGRAM



RUST PROGRAMMING EXECUTION

```
1 fn main() {  
2     println!("Hello, world!");  
3 }
```

Execution

Close

Standard Error

```
Compiling playground v0.0.1 (/playground)  
Finished `dev` profile [unoptimized + debuginfo] target(s) in 0.71s  
Running `target/debug/playground`
```

Standard Output

```
Hello, world!
```

EXECUTION

RUN ▶

...

DEBUG ▾

STABLE ▾

...

1 //main.rs

2 use deno_core:: {

3 };

4 error:: AnyError, resolve path, FsModuleLoader, JsRuntime, PollEventLoopOptions, Runtime

5 use std::env;

6 use std::rc::Rc;

7

8

9 async fn run js(file_path: &str) -> Result<(), AnyError> {

10

11

12 let main_module resolve_path(file_path, env::current_dir()?.as_path());

13 let mut js runtime = JsRuntime:: new(RuntimeOptions {

14 });

15 module loader: Some (Rc:: new(FsModuleLoader)),

16 ..Default::default()

17 let mod_id=js_runtime.load_main_es_module(&main_module).await?;

18 let result = js_runtime.mod_evaluate(mod_id);

19 js_runtime

20 .run_event_loop (PollEventLoopOptions(

21 wait_for_inspector: false, pump_v8_message_loop: false,

22

23 })

24

25 .await?;

26

27 result.await

28

29 fn main() {

30 let runtime tokio::runtime:: Builder::new_current_thread()

31 .enable_all()

32

33 .build()

34

35 .unwrap();

36

37 if let Err(error) runtime.block_on(run_js("./example.js")) {

38

39 eprintln! ("error: {}", error);

40

41

Execution

Close

Errors

Exited with status 101

Standard Error

Compiling playground v0.0.1 (/playground)

error: mismatched closing delimiter: `}`

--> src/main.rs:20:38

9 | async fn run js(file_path: &str) -> Result<(), AnyError> {

- closing delimiter possibly me

...

20 | .run_event_loop (PollEventLoopOptions(

^ unclosed delimiter

...

23 | })

| ^ mismatched closing delimiter

error: unexpected closing delimiter: `)`

--> src/main.rs:23:2

9 | async fn run js(file_path: &str) -> Result<(), AnyError> {

- this opening brace...

...

23 | })

-^ unexpected closing delimiter

|

| ...matches this closing brace

error: could not compile `playground` (bin "playground") due to 2 previous errors

Standard Output

SEND ↵

THANK YOU