



WIKIRACER

FLY THROUGH WIKI

AGENDA

Code

Examples (Visuals)

Final conclusion & takeaways

THE POWER OF
TTD
(CODE)

UNIT TESTS

TAKEAWAYS:

- ANYHOW
- WIREMOCK
- LOG2
- CLAP

Walentalien

```
#[cfg(test)]
```

```
mod tests {
```

```
    use ...;
```

```
    // tests for construct_url start here
```

Walentalien

```
#[test]
```

```
fn test_get_url() -> Result<(), Box<dyn std::error::Error>> {
```

```
    let root_url : Url = Url::parse(input: "https://google.com")?;
```

```
    let another_full_url : Result<Url, ParseError> = Url::parse(input: "https://another.com");
```

```
    let result_url : Url = construct_url(another_full_url.clone().unwrap().as_str(), root_url)?;
```

```
    assert_eq!(result_url, another_full_url.unwrap());
```

```
    Ok(())
```

```
}
```

Walentalien

```
#[test]
```

```
fn test_get_url_with_relative_path() -> Result<(), Box<dyn std::error::Error>> {
```

```
    let root_url : Url = Url::parse(input: "https://groq.xyz")?;
```

```
    // for the path arg we have relative path
```

```
    //let relative_path = Url::parse("/some/relative/path")?;
```

```
    let relative_path : &str = "/some/relative/path";
```

```
    let result_url : Url = construct_url(relative_path, root_url)?;
```

```
    let expected_url : Url = Url::parse(input: "https://groq.xyz/some/relative/path")?;
```

```
    assert_eq!(result_url, expected_url);
```

```
    Ok(())
```

```
}
```

RR

WikiRacer

main

test

Test crawler::tests::test_crawl_basic

Project

WikiRacer

/media/walentyn/HDD/MY_GITHU

log

log.txt

scraped_links

count_duplicates.sh

log.txt

scrape_page_log.txt

src

main.rs

config.rs

crawler.rs

integration_test.rs

pathfinder.rs

target

.gitignore

Cargo.lock

Cargo.toml

LICENCE.md

log.txt

README.md

scrape_page_log.txt

External Libraries

Scratches and Consoles

crawler.rs

scraped_links/log.txt

scraped_links/scrape_page_log.txt

log.txt

scrape_page_log.txt

.gitignore

391

mod tests {

488

#[tokio::test]

489

async fn test_scrape_empty_page() -> Result<(), Box<dyn std::error::Error>> {

490

let client : Client = request::Client::new();

491

//let url = Url::parse("https://example.com/empty")?;

492

let config: CrawlerConfig = CrawlerConfig {

493

starting_url: Url::parse(input: "https://localhost"?),

494

scraping_foreign_hosts: false,

495

max_urls: 0,

496

max_depth: 0,

497

thread_count: 0,

498

request_delay_ms: 0,

499

max_retries: 0,

500

request_timeout_sec: 2,

501

target_url: None,

502

};

503

let mock_server : MockServer = wiremock::MockServer::start().await;

504

Mock::given(method("GET"))

505

.and(path("/empty")) : MockBuilder

506

.respond_with(ResponseTemplate::new(s: 200).set_body_string("")) : Mock

507

.mount(&mock_server) : impl Future<Output=()>+Sized

508

.await;

509

let url : Url = Url::parse(input: &format!("{}", &mock_server.uri()))?;

510

let result : Result<HashSet<Url>> = scrape_page(url, &client, &config).await;

511

assert_eq!(result?, HashSet::<Url>::new());

512

Ok(())

513

}

514

}

515

tests

Terminal

Local

WikiRacer > src > crawler.rs > tests

Cargo Check 404:1 LF UTF-8 4 spaces x86_64-unknown-linux-gnu

2 usages 👤 Walentalien *

```
#[macro_export]
```

```
macro_rules! write_url {
```

```
    // Case: HashSet or iterable
```

```
    ($path:expr, [$( $url:expr ),+ $( , )? ]) => {{
```

```
        #[cfg(debug_assertions)] // doesnt run in release
```

```
        {
```

```
            use std::fs::OpenOptions;
```

```
            use std::io::Write;
```

```
            use std::time::Duration;
```

```
            let elapsed = $crate::START_TIME.elapsed();
```

```
            let minutes = elapsed.as_secs() / 60;
```

```
            let seconds = elapsed.as_secs() % 60;
```

```
            let result = OpenOptions::new()
```

```
                .create(true)
```

```
                .append(true)
```

```
                .open($path)
```

```
                .and_then(|mut file| {
```

```
                    $(
```

```
                        writeln!(file, "[{:02}:{:02}] {}", minutes, seconds, $url)?;
```

```
                    )+
```

```
                    Ok(())
```

```
                },
```

OPEN FOR CONTRIBUTIONS

Contribution Guideline

Open for Contribution Looking for help with:

- GUI Application



WikiRacer

Public

Unpin

Watch 0

Fork 0

Star 0

main

1 Branch 0 Tags

Go to file

t

Add file

<> Code

About



Walentalien

Added stop logic

83baf94 · yesterday

18 Commits



src

Added stop logic

yesterday



.gitignore

Saving work

yesterday



Cargo.lock

Saving Work

2 weeks ago



Cargo.toml

Saving Work

2 weeks ago

Find Shortest Path Between Two Links on Wikipedia

Readme

Activity

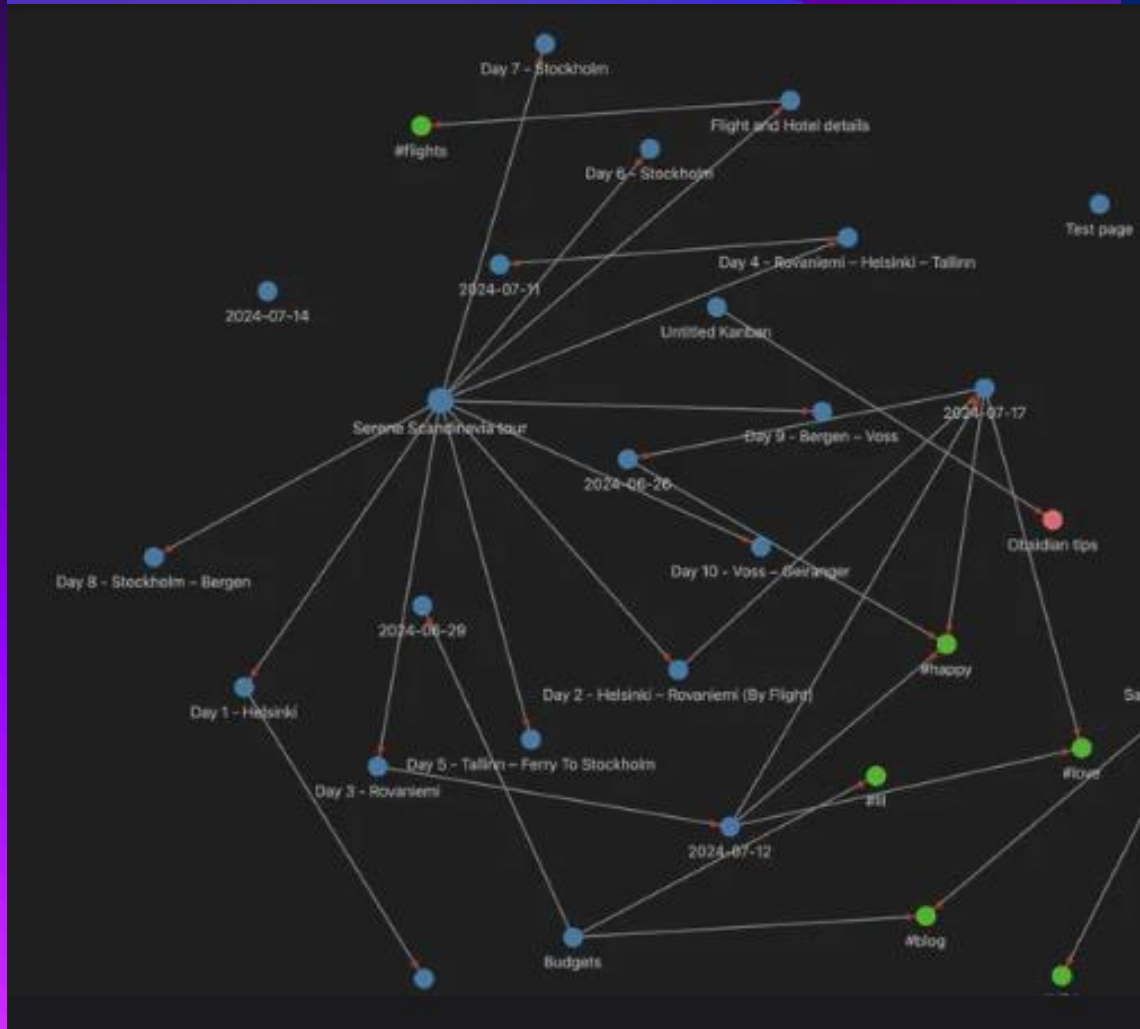
0 stars

0 watching

0 forks

EXAMPLES

```
Terminal  Local x + v
[2025-06-17 15:35:45.274] [DEBUG] [WikiRacer::crawler:255] Skipped foreign host link: https://en.m.wikipedia.org/w/index.php?title=Pope\_John\_XIV&mobileaction=toggle\_view\_mobile
[2025-06-17 15:35:45.274] [DEBUG] [WikiRacer::crawler:255] Skipped foreign host link: https://www.wikimedia.org/
[2025-06-17 15:35:45.274] [DEBUG] [WikiRacer::crawler:255] Skipped foreign host link: https://www.mediawiki.org/
[2025-06-17 15:35:45.275] [INFO] [WikiRacer::crawler:266] Found 848 urls on page https://en.wikipedia.org/wiki/Pope\_John\_XIV
[2025-06-17 15:35:45.353] [INFO] [WikiRacer::crawler:313] Worker 3: Max URLs reached
[2025-06-17 15:35:45.353] [INFO] [WikiRacer::crawler:369] Worker 3 finished
[2025-06-17 15:35:45.378] [INFO] [WikiRacer::crawler:313] Worker 2: Max URLs reached
[2025-06-17 15:35:45.378] [INFO] [WikiRacer::crawler:369] Worker 2 finished
[2025-06-17 15:35:45.378] [INFO] [WikiRacer:58] Crawling completed. Total links found: 1002
[2025-06-17 15:35:45.634] [DEBUG] [WikiRacer::pathfinder:13] Searching for path from https://en.wikipedia.org/wiki/Pope to https://en.wikipedia.org/wiki/Banana
[2025-06-17 15:35:45.635] [DEBUG] [WikiRacer::pathfinder:14] Graph contains 1002 nodes
[2025-06-17 15:35:45.644] [DEBUG] [WikiRacer::pathfinder:43] Searching at depth 1, 2001 nodes in queue
[2025-06-17 15:35:47.214] [DEBUG] [WikiRacer::pathfinder:43] Searching at depth 2, 160250 nodes in queue
[2025-06-17 15:35:47.414] [DEBUG] [WikiRacer::pathfinder:43] Searching at depth 3, 0 nodes in queue
[2025-06-17 15:35:47.415] [DEBUG] [WikiRacer::pathfinder:73] No path found after searching 162253 nodes
[2025-06-17 15:35:47.651] [INFO] [WikiRacer:69] No path found between https://en.wikipedia.org/wiki/Pope and https://en.wikipedia.org/wiki/Banana
walentyn@lenovo:/media/walentyn/HDD/MY_GITHUB_REPOS/WikiRacer$
```

DEVELOPMENT

Your ability to communicate effectively will leave a lasting impact on your audience

Effectively communicating involves not only delivering a message but also resonating with the experiences, values, and emotions of those listening

SPEAKING ENGAGEMENT METRICS

From	To	Links between
Prezydent Mozabbiku	AGH	2
Biedronka	Korporacja	1
C	Rust	0
CCP	Poland	1
CCP	Dumplings	2

THANK YOU

Link to repo ->>>>

