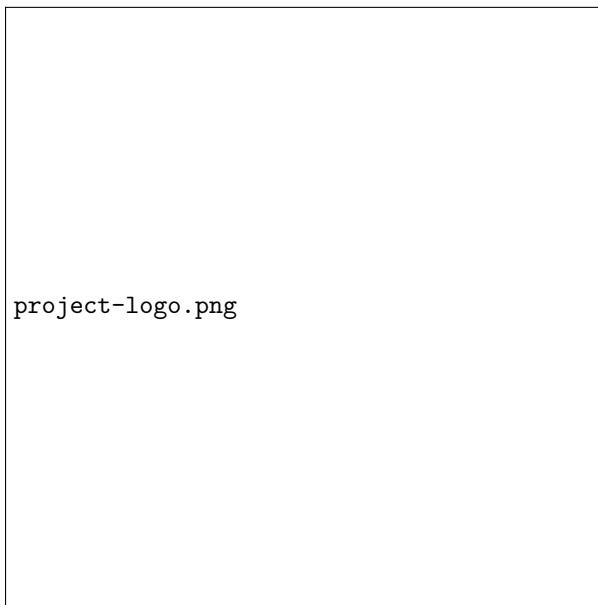


Ouroboros

Project Documentation



Kaya-Sem Van Cauwenberghe
April 11, 2025

Abstract

A concise summary of the project, its purpose, and key achievements. This should be 3-5 sentences that capture the essence of what makes this project noteworthy.

Document version: 1.0

Contents

1 Project Overview 2

1.1 Introduction 2

1.2 Key Features 2

2 Technologies Used 2

2.1 Core Technologies 2

2.2 Technology Diagram 2

3 Technical Details 2

3.1 Architecture 2

3.2 Data Flow 2

3.3 Key Algorithms 3

4 Challenges & Solutions 3

4.1 Technical Challenges 3

4.2 Lessons Learned 3

5 Screenshots & Results 3

6 Conclusion 3

1 Project Overview

1.1 Introduction

Brief introduction to the project, its purpose, and the problem it solves. Explain the motivation behind the project and its core objectives.

1.2 Key Features

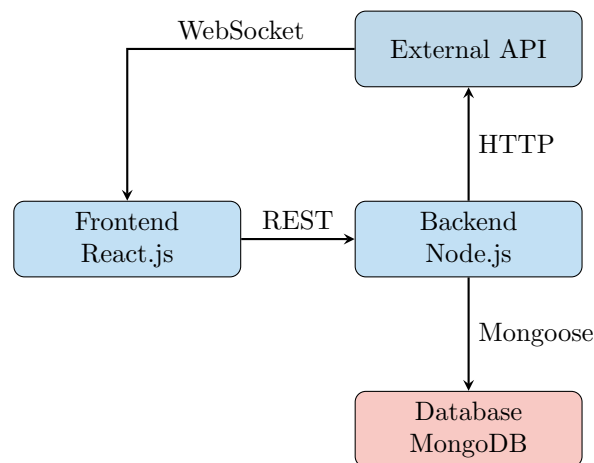
- Feature 1 with brief description
- Feature 2 with brief description
- Feature 3 with brief description
- Feature 4 with brief description

2 Technologies Used

2.1 Core Technologies

- **Programming Language(s):** Go
- **Frameworks & Libraries:** Key frameworks and libraries
- **Tools:** Development tools, CI/CD, etc. Docker, Docker-Compose
- **Infrastructure:** Hosting, databases, etc.

2.2 Technology Diagram



3 Technical Details

3.1 Architecture

Detailed explanation of the system architecture. Include subsections as needed for different components.

3.2 Data Flow

Description of how data moves through the system. You can include another diagram here if helpful.

3.3 Key Algorithms

If your project involves interesting algorithms or technical solutions, describe them here.

Listing 1: Sample code snippet

```
1 def important_algorithm(data):  
2     """This is a key algorithm in the project"""  
3     result = []  
4     for item in data:  
5         processed = complex_processing(item)  
6         if meets_criteria(processed):  
7             result.append(processed)  
8     return sorted(result, key=lambda x: x['value'])
```

4 Challenges & Solutions

4.1 Technical Challenges

- Challenge 1 and how you solved it
- Challenge 2 and how you solved it

4.2 Lessons Learned

Reflections on what you learned from this project that would help with future work.

5 Screenshots & Results

Include screenshots of the working project with captions explaining what each demonstrates.

6 Conclusion

Summary of the project's success, potential future improvements, and final thoughts.

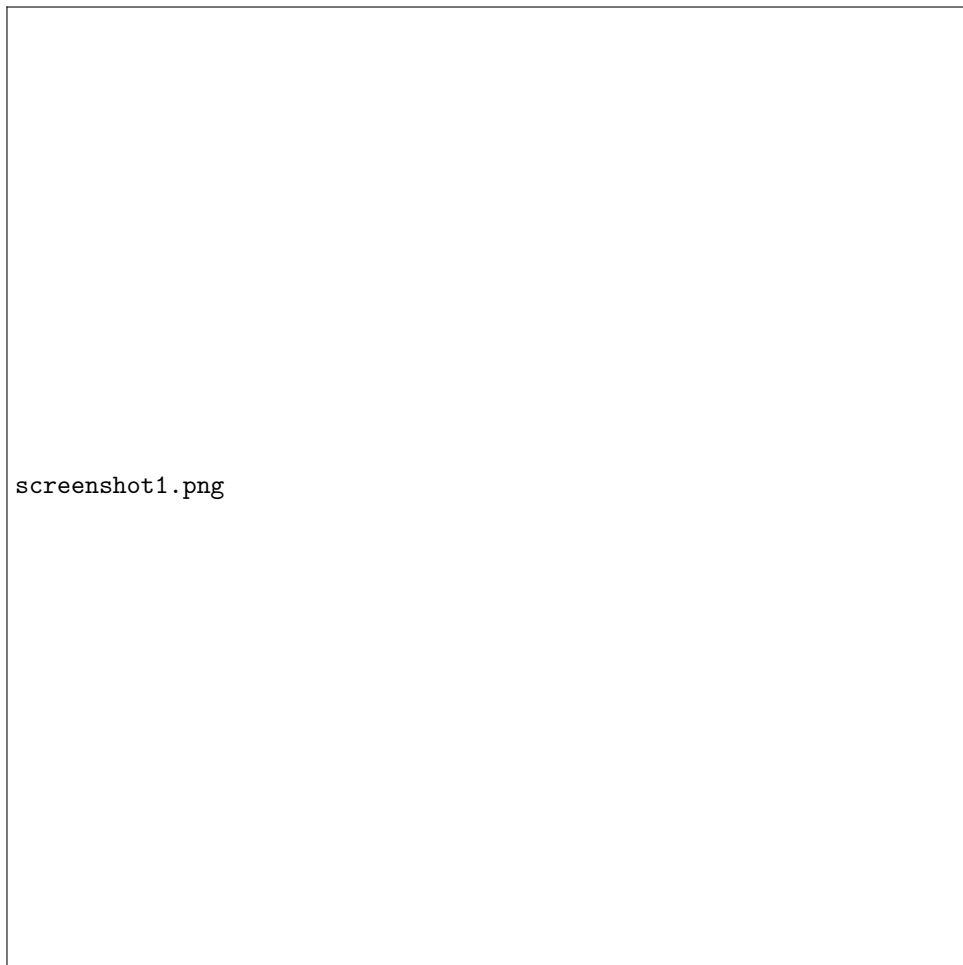


Figure 1: Main interface showing key functionality