

Prometheus



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DEGREE: BACHELOR'S IN
COMPUTER SCIENCE

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EXPECTED GRADUATION:
DECEMBER 2023

Prometheus

- Project Overview

Rust-based Newsreader Application

Distribution Website

- Objective

Alternative News Aggregator

Alleviate News Illiteracy



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- Languages

 - Rust*

 - JavaScript*

- Hardware

 - Laptop*

- Software

 - Rustup*

 - React.js*

 - VSCode*

 - Node Packet Manager*

 - NewsAPI.org*



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- Key Findings

Rust – Memory Safe

NewsAPI.org

- Insights

Multiple Datatypes

GUI Libraries

- Challenges

Data Conversion

Distribution



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- Challenges

- Learning Rust*

- Data Conversion*

- JSONs*

- ISO 8601*

- GUI Development*

- How to Distribute*

- Timing*



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- Requirements
35 Requirements
- Testing
25 Test Cases
11 Usability Testing Questions

Requirement #:	6	Requirement Type:	Functionality	Event/BUC/PUC #	<u>1</u>
Description:	Handle NewsAPI Errors				
Rationale:	To have error handling that does not crash Prometheus.				
Fit Criterion:	Prometheus must handle errors from NewsAPI.org without crashing.				
Priority:	<u>1</u>	Dependencies:	<u>3, 4</u>	Conflicts:	<u>5</u>
Supporting Materials:	Rust Serde_JSON Crate Documentation , Rust Serde Crate Documentation				
History:	10/5/2023: Created 11/13/2023: Completed				

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- Future Enhancements

Synchronized Menus

New Icons

Text Size Consistency

Feature Contrast

Web Formatting

Deploy Website



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- Achievements

Learned Rust

GUI Development



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- Demonstration



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Questions?

