# Purple Politics
# Software Design Document

Benedict Taguinod

# Revisions

| Date | Description | Revision |
|------|-------------|----------|
| 6/6/2021 | Created the Document | 0 |
| 6/19/2021 | Added Class Diagram | 1 |

# Table of Contents

# 1 Introduction

## 1.1 Purpose

## 1.2 Scope

## 1.3 Definitions, Acronyms, Abbreviations

# 2 Architecture Design

# 3 Data Design

# 4 Component Design

---

**ScheduledFunction**

+ matcher:ArticleMatcher
+ RSS_URL:dict
+ collectors:ArticleCollector []

+ main()

---

**ArticleDatabaseConnector**

+ store_articles(articles)
+ get_articles(): Articles []
+ erase_articles(start_time, end_time)

---

**ArticleCollector**

+ company:str
+ url:str

+ get_articles(max_articles):Article []

---

**ArticleMatcher**

- ML_MATCHER:model

+ match_articles(articles):(Article [])[]

**Creates Model**

---

**Article**

+ company:str
+ title:str
+ description:str
+ article_url:str
+ image_url:str
+ published_time:str

---

**ArticleMatcherTrainer**

+TRAIN_TEST_RATIO:float
+TRAINING_SET:dict []

+ train_model():model
+ download_model()