Architectural Design

## Repository Design

## Sub Systems

### Front End News Feeder Website

The purpose of the front end news feeder website is to allow the user to interact and view information provided by the News Feeder.

### Backend News Feeder Crawler

The purpose of the backend news feeder crawler is to continuously crawl news websites while deriving good quality information to make available to the user through the front end website.

### Java Downloader Application

The purpose of the java downloader application is to act as another interface where the user can view

### News Feeder Web Service

The News Feeder Web Service provides a method of interaction between the

System Interaction

Front End – Back End communication

The front end and back end have two methods of communication.

Socket Communication

The reason behind socket communication is to provide instant results between the

## Technologies

#### PHP

PHP is an open source web technology which is used for server side processing in a web environment. PHP is the primary language used in the News Feeder website and is used to retrieve and display data to the user as well as persist data to the News Feeder database. PHP was chosen as the primary language as it is well documented, stable and provides the functionality needed by the News Feeder. This functionality includes (but is not limited to):

* Network Sockets Support
* MySQL Support
* Session/Cookie support

#### C++

C++ has been used to develop the News Feeder backend crawler. The crawler required a language that supports abstract functionality like classes, templates and threading. C++ provides a good stable platform and is not bloated with

#### Java

Java

OPML

HTML/Javascript/XML

MySQL