

RSS Fetcher Assignment Documentation

INTRO

This application can fetch any RSS endpoint feed and store it in memory database and then access it via rest endpoint.

Technologies and Frameworks:

- Java 8
- Spring Boot
- Spring Integration
- Spring Test (JUnit)
- Lombok
- Maven

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RSS FETCHER PROJECT PROCESS

The whole process is as below:

1. Application can fetch any RSS endpoint that is configurable in resources/integration/FeedInboundChannelAdapter.xml. Spring Integration Feed Adapter is used for fetching data.
 - <https://news.google.com/news/rss> is configured as a default source of RSS feeds.
2. The process of fetching data start 1 second after application startup and it will be repeated every 5 seconds that is configurable in application.yml file via rss.fetch.interval parameter. This process is scheduled by Spring scheduling capabilities.
3. After fetching and getting related data it will be processed and saved in H2 in memory database (Spring Boot embedded H2 memory database is used for storing data) all fetching, processing and saving methods is located in ScheduledTasks Class.

After Application Startup, H2 in-memory DB is accessible as follow:

<http://localhost:8080/h2-console>

JDBC URL: jdbc:h2:mem:testdb

User Name: sa

4. There are 3 rest endpoints for accessing stored data:
 - a. <http://localhost:8080/api/messages/all>
for retrieving all stored data
 - b. http://localhost:8080/api/messages/last?items=number_of_items
for retrieving any specific number of items
 - c. <http://localhost:8080/api/messages/lastten>
for retrieving last 10 items

CLASS DIAGRAM

