

# PROO/SEW III - Assignment: *News Agency*

## Objective

Create a program for reading and processing news articles and podcasts.

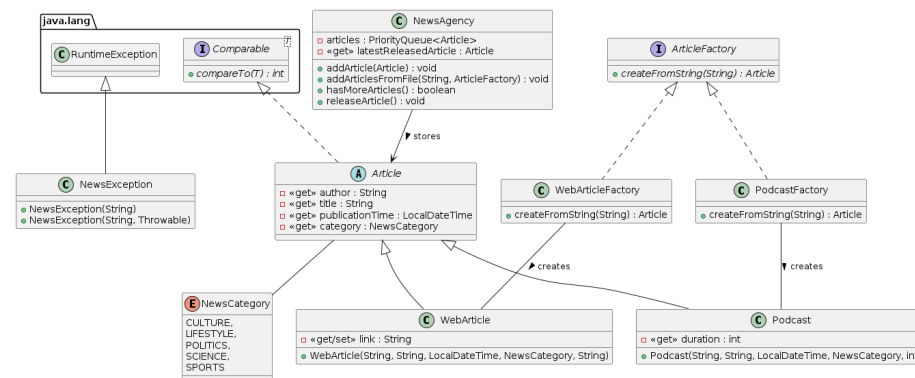
## Things To Learn

- Working with *priority queues*.
- Using *logging libraries*.
- Implementing the *factory pattern*.

## Submission Guidelines

- Your implemented solution as **zipped IntelliJ**-project.

## Task



You are tasked with creating a news agency that is able to publish news articles and podcast episodes one at a time - taking care of the oldest ones first. When an article is *released* it should be removed from the agency's *collection* and should be accessible using `getLatestReleasedArticle` - at least until the next article is published. This is to be achieved using a **PriorityQueue**: A specialized queue implementation that returns objects based on their priority, which is determined by their sort order (starting with the lowest one!).

*Articles* can either be web articles (with a **link**) or podcast episodes (with a **duration**). Both can be created from *.csv*-lines using appropriate *factories*. Note that the *factories* simply **ignore errors** and return **null** if something happens when parsing.

Since we're ignoring exceptions during the loading and parsing, we have no idea what went wrong (or right for that matter) during the execution of our program. This is where we'll use *logging* - i.e. writing and keeping a record of

what happened when during the run time, and how severe it was. You can find exemplary *log files* attached to this assignment.

## Hints

Use the `LocalDateTime` class when working with date and time values in *Java*. You can use a `DateTimeFormatter` to both parse and print a given moment. E.g.:

```
DateTimeFormatter dateTimeFormatter = DateTimeFormatter.ofPattern("yyyy-MM-dd HH:mm");
LocalDateTime publicationTime = LocalDateTime.parse(articleParts[0].strip(),
    dateTimeFormatter);
```