## Homework 3 – News List

## Tasks

- Use a RecyclerView (classical UI) or a LazyColumn (Jetpack Compose), respectively, to display
  the news items
  - o Display the item title in the list
  - O When clicking a list item, navigate to a details page
- On the details page show, the
  - Unique identifier
  - o Title
  - o Description
  - o Image URL
  - o Author
  - Publication date
  - o Full article link
  - o Keywords
- Load the RSS feed from the internet
  - Download the feed in the background.
  - Parse the RSS feed into Kotlin data objects.
  - o Parsing must be done in the background.
  - The data object must contain all necessary items (see above). Make sure to use appropriate data types.
  - o Implement both parts (downloading and parsing) in a news list view model class.
  - Implement an option for reloading the data.
  - o Sort the news item list by date (newest on top).
- Use LiveData to update the UI automatically after the data is downloaded and parsed.

## Remarks:

- The UI must be functional. The layout will not be graded as we will implement a refined layout in the next assignment
- Implement the application using classical Android UI or Jetpack Compose.

## Grading

- 1. The title of all items is displayed within a RecyclerView or LazyColumn element 10
- 2. When clicking a list item, navigation to a details page is triggered. Navigating back to the list works. 10
- 3. The details page contains all required information. 10
- 4. RSS feed is correctly downloaded from the internet. 10
- 5. All required information is parsed into a Swift dataobject. The data types of the fields were selected appropriately. 10
- 6. Downloading and parsing is implemented in the background. 10
- 7. Reloading the data from the server is possible. 10
- 8. The order of the news items in the list is correct. 10
- 9. Downloading and parsing is implemented in a model object. The UI is updated through LiveData only. 20