



**NTNU – Trondheim**  
Norwegian University of  
Science and Technology

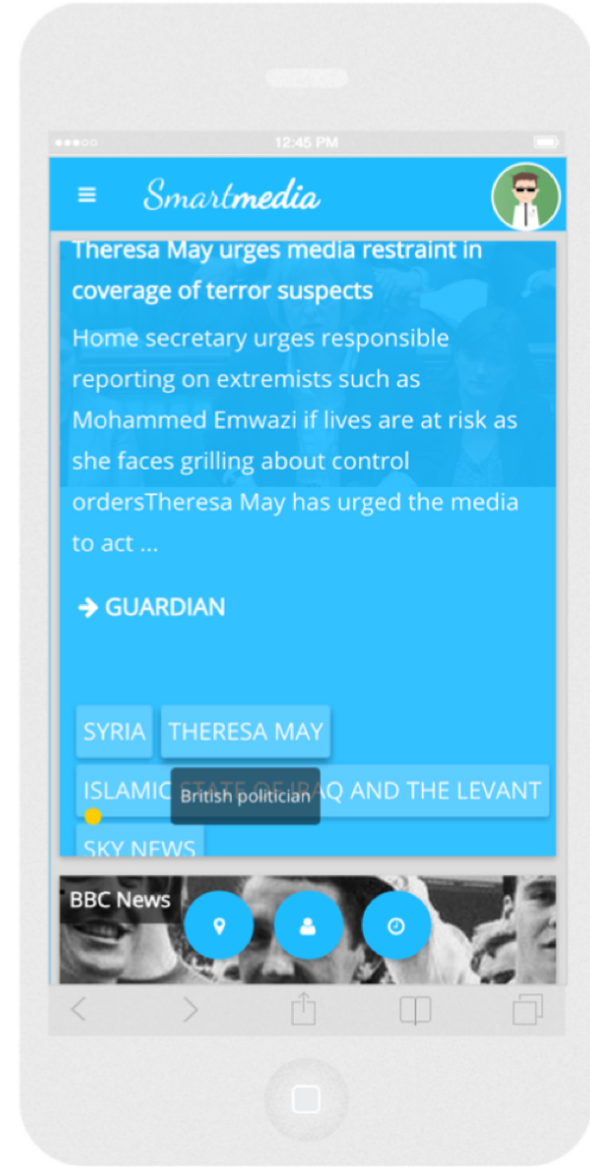
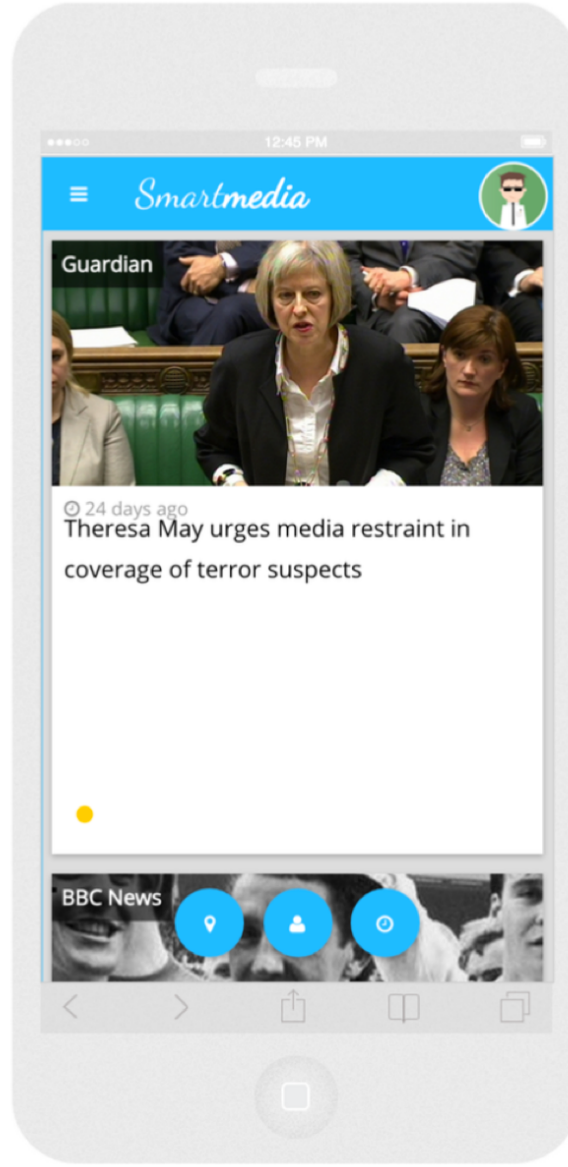
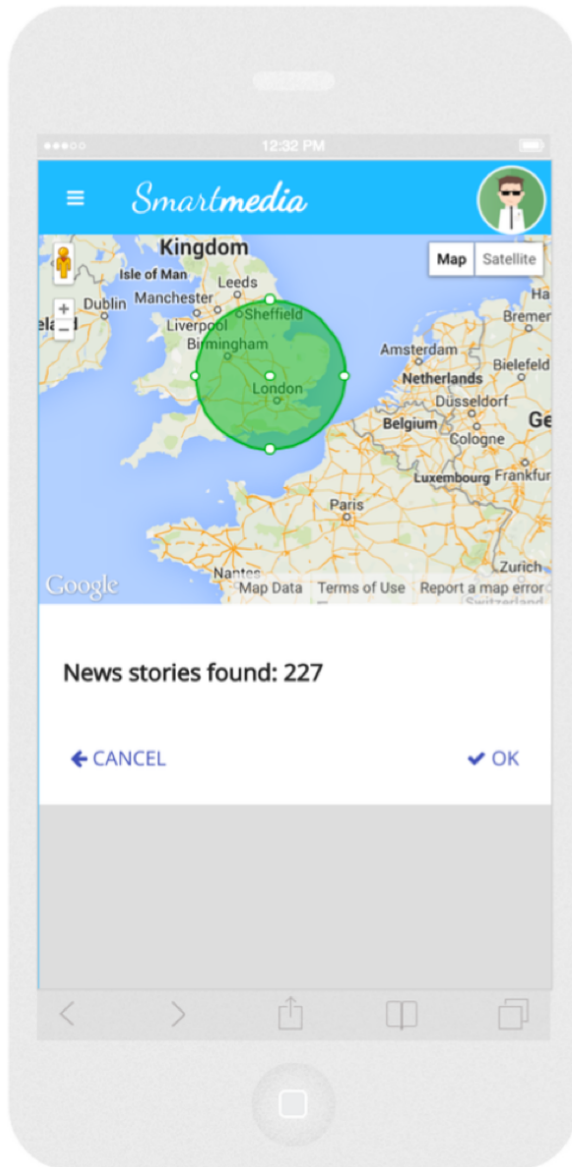
# **THE SMARTMEDIA NEWS RECOMMENDER SYSTEM FOR MOBILE DEVICES**

**NEM Summit, Porto, 24 November 2016**

# INTRODUCTION

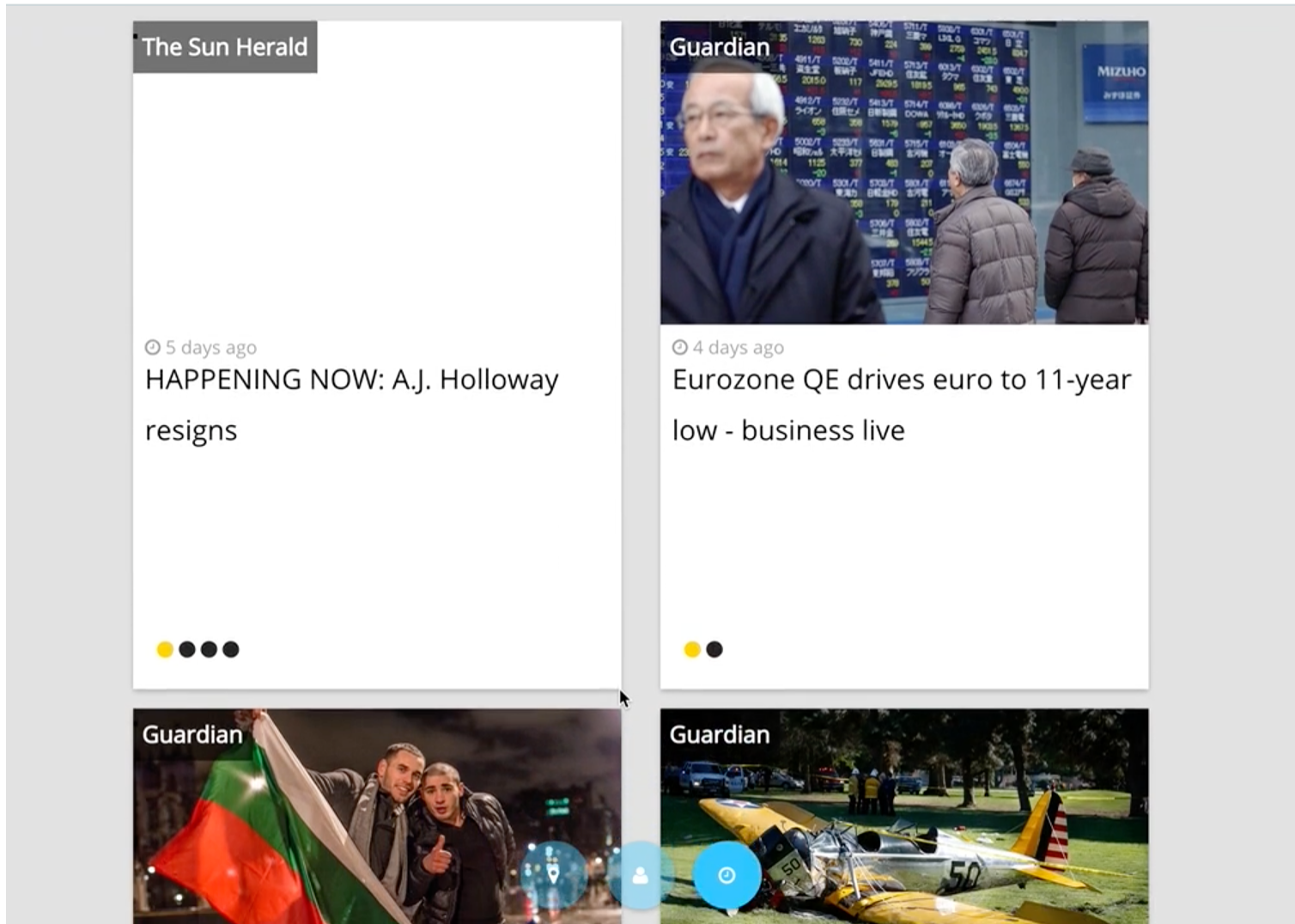
- Lots of information on the web everyday.
- Growing need for personalization to provide the most relevant digital content to readers.
- News recommender systems procure such solutions by filtering more to-the-point information.
- News personalization is particularly critical in mobile devices, as users are now clearly favouring mobiles in order to get informed about current events.
- Mobile devices demand for more personalized and better targeted news filtering.

# INTERFACE



# FEATURE 1

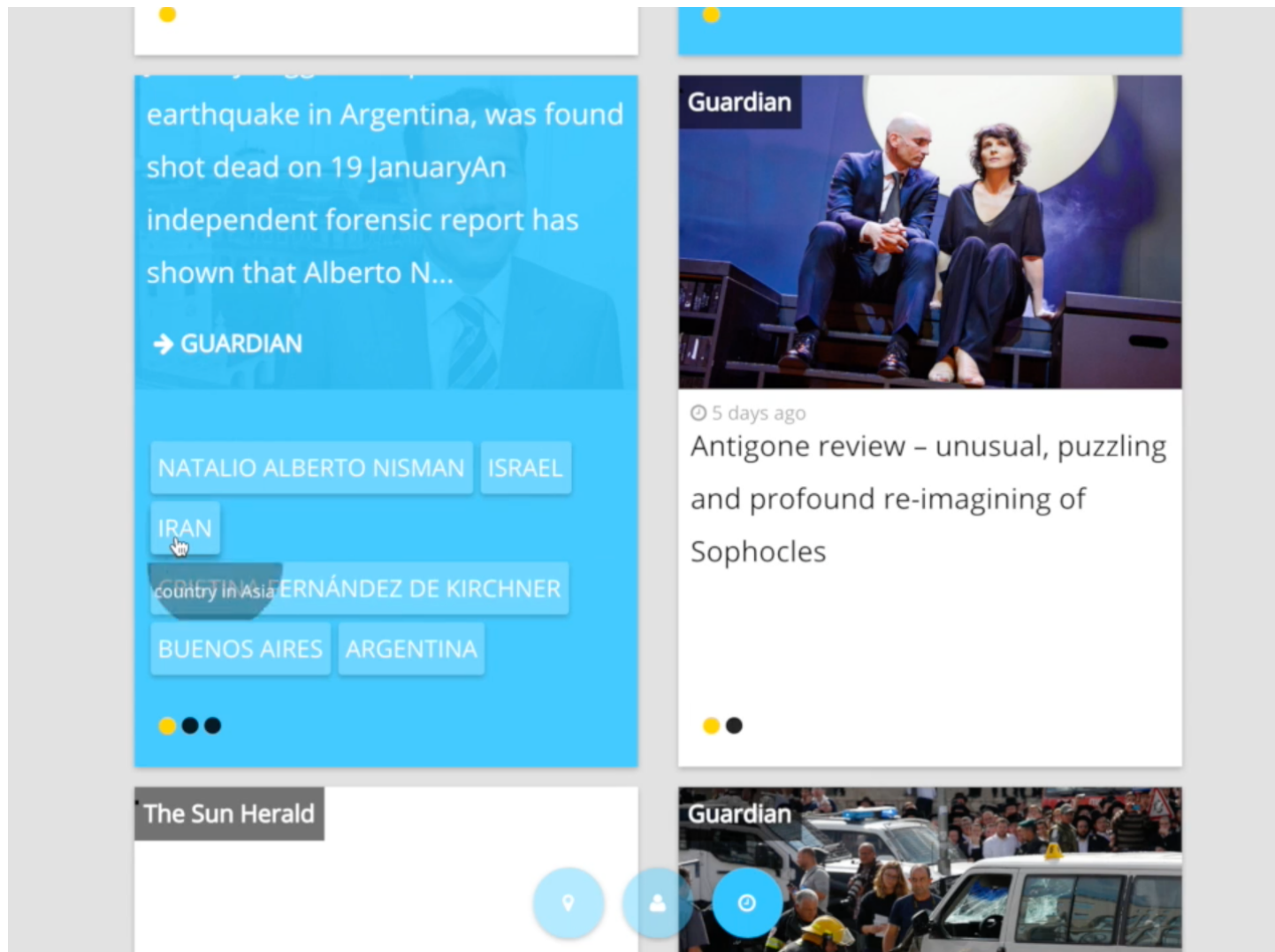
## Aggregate multiple sources





# FEATURE 2

## Semantic tagging



# FEATURE 3

## Location aware



# FEATURE 4

## Multilingual

LATEST NEWS MY ACCOUNT

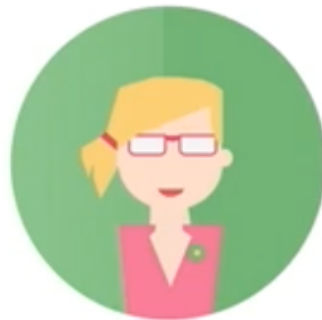
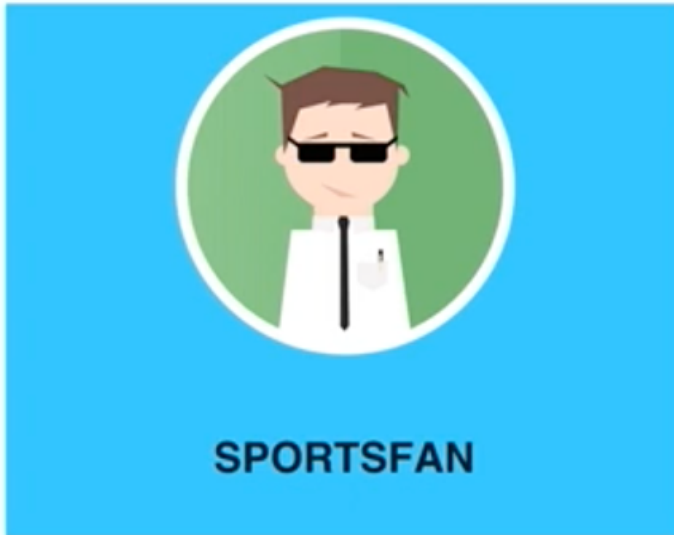
### User Profile

Select Languages

- Norsk Bokmål
- Norsk Nynorsk
- Dansk
- Deutch
- English

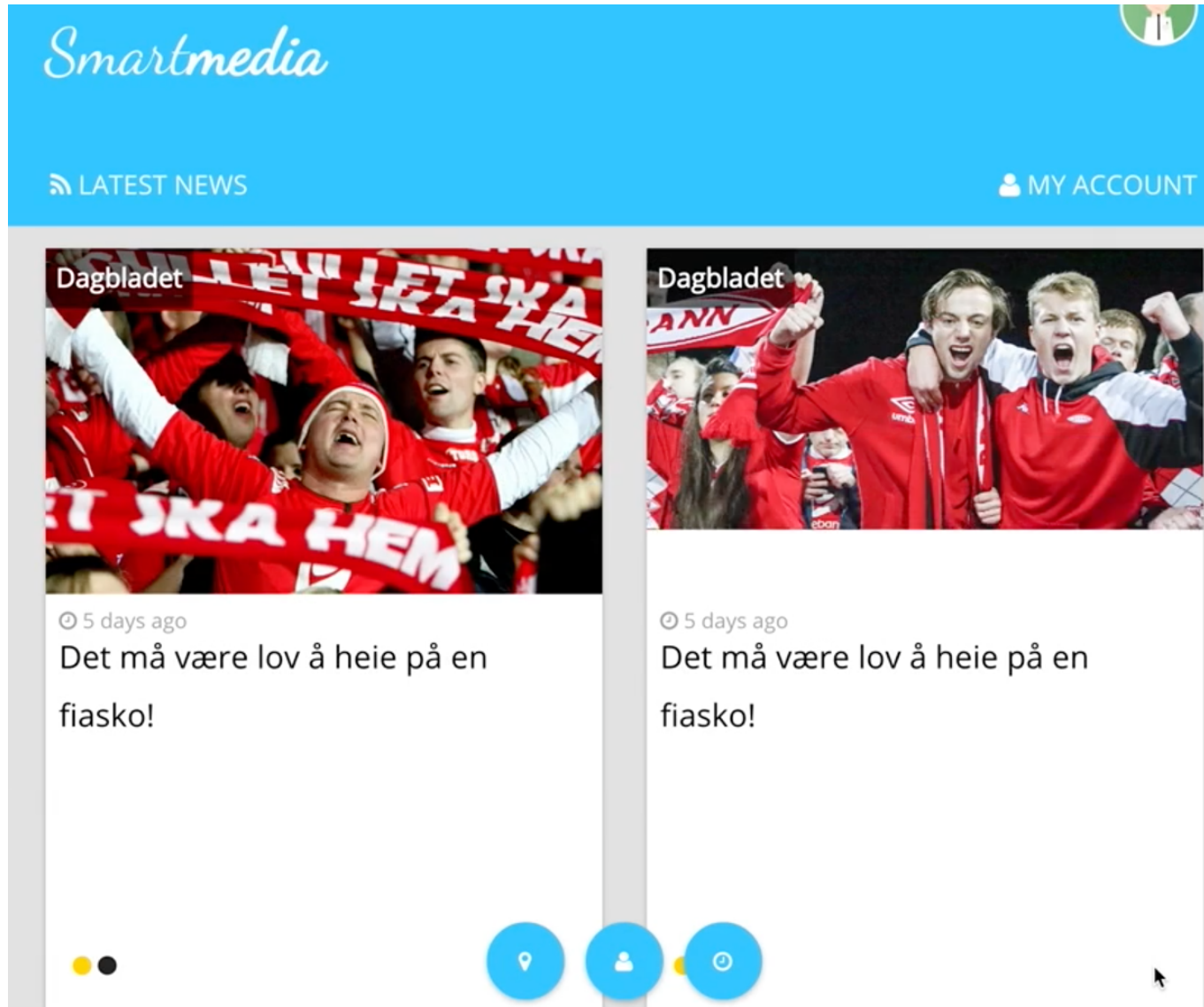
# FEATURE 5

## Personal



# FEATURE 5

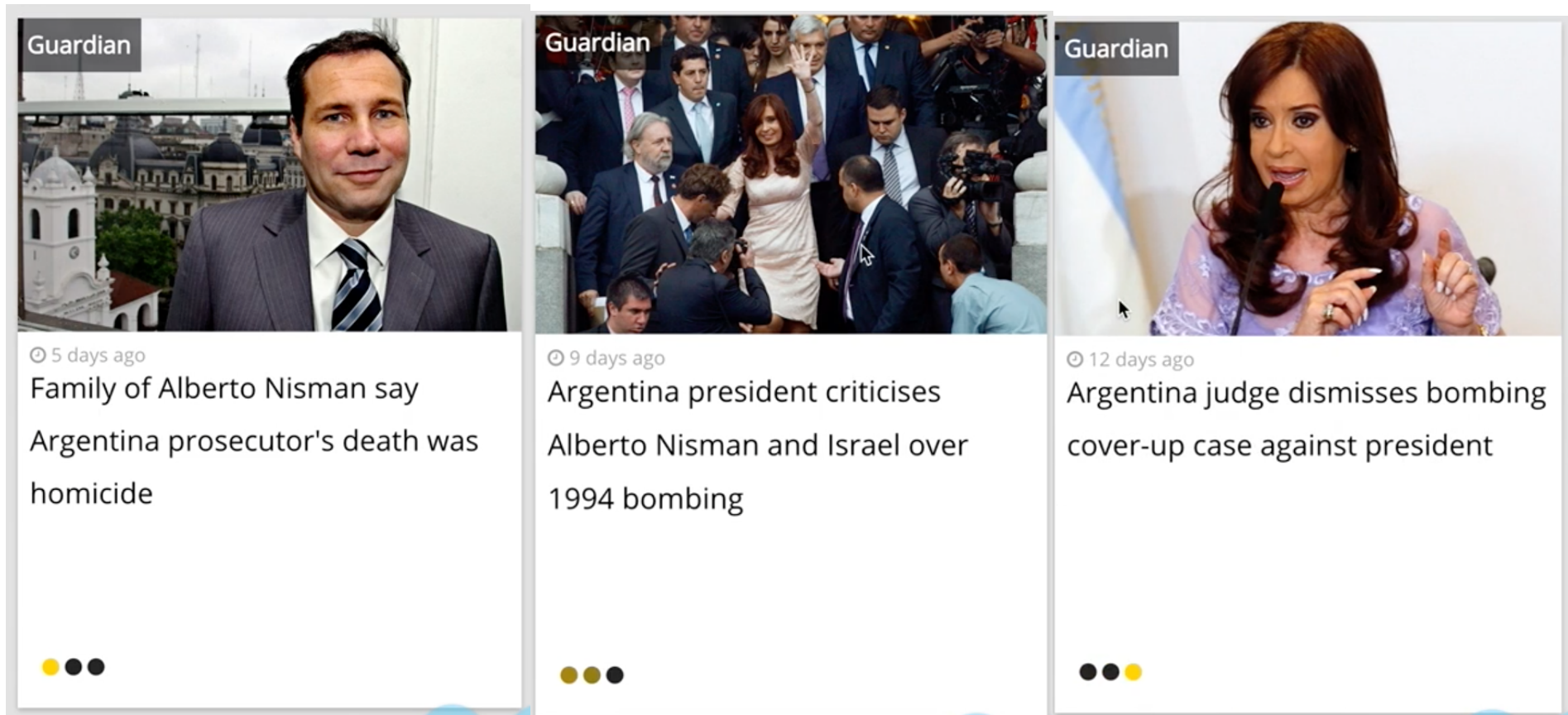
## Personal





# FEATURE 6

## News clustering



The image displays three news cards from The Guardian, arranged horizontally. Each card features a photograph at the top, a 'Guardian' logo in the top left corner, a timestamp, and a headline. The first card shows a man in a suit with a cityscape background. The second card shows a woman in a white dress surrounded by people and cameras. The third card shows a woman in a purple top speaking into a microphone. Each card has a small icon of three dots at the bottom left.

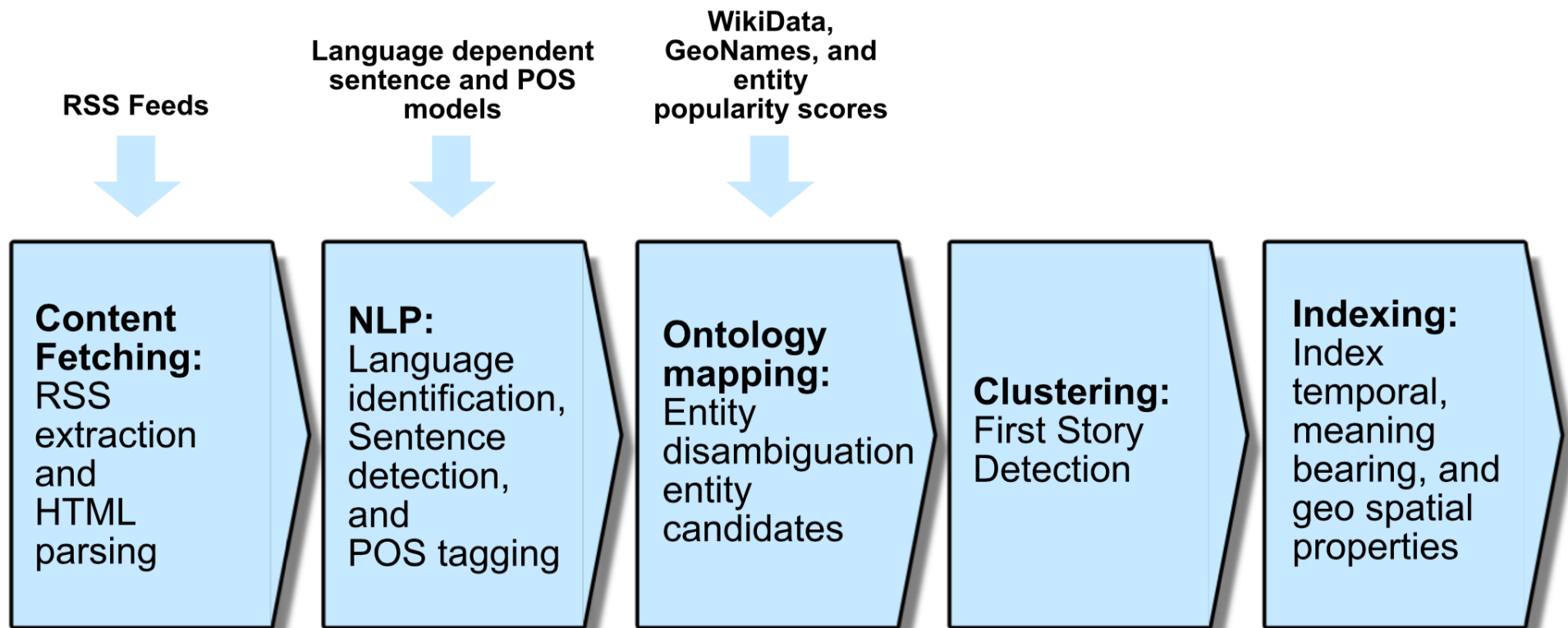
**Card 1:**  
Guardian  
5 days ago  
Family of Alberto Nisman say Argentina prosecutor's death was homicide

**Card 2:**  
Guardian  
9 days ago  
Argentina president criticises Alberto Nisman and Israel over 1994 bombing

**Card 3:**  
Guardian  
12 days ago  
Argentina judge dismisses bombing cover-up case against president



# SYSTEM OVERVIEW



# CONCLUSION

- SmartMedia news recommender system.
- Mobile devices.
- Time, location and semantics aware.
- Multilingual, multiple sources.