

# PWC

## Information security feed system

### Background / Problem statement:

Cybersociety grows faster and faster, and today awareness of major trends is not enough. For example, first messages regarding WannaCry ransomware were published in social networks 6 hours before official announcements in mass media. If this information would be delivered in time many and many of companies could have a time to patch themselves or just turn off services.

Companies need a fast way of getting information about current trends, news and problems in information security. And they need it now. So we offer you to create a software which will collect articles, blog posts, chat posts from twitter, facebook, blogs, telegram, "dark net" and mass media and analyze them.

### Task:

Conduct research in the field of data analysis of social media and develop software capable of online aggregation and analysis of different topics regarding information security from social media.

The main purpose of this app is to build easy, intuitive and timely source of information regarding current state of information security.

This whole task can also include some data research regarding feeds such as speed/length/amount of posts and others. For example it could be research of correlation of posts count in "dark net" focused forums per day to major security incidents.

### Solution requirements

To analyze possible techniques of solving the task and develop software (web-based) satisfying following technical requirements.

Prepare presentation regarding developed solution.

### Technical requirements for the solution

a) Data aggregation of information security data sources, including, but not limited to:

- security blogs;
- facebook;
- twitter;
- telegram;
- darknet special forums;
- mass media sources;

*We offer you to start with top 50 authors from this list.*

b) Estimation of current information security trends via data analysis of collected information.

c) Data presentation of the most hot topics and trends via Graphic User Interface (through web browser) in business transparent format.



## Evaluation criteria

- Criterion: Business transparency  
Evaluation: maximum 5 - minimum 1.
- Criterion: Scalability of the application  
Evaluation: maximum 5 - minimum 1.
- Criterion: Performance - less than 15 minutes for new article analysis  
Evaluation: maximum 5 - minimum 1.
- Criterion: Further ways of system development  
Evaluation: maximum 5 - minimum 1.