

Milestone Report	
Unique Knowledge Graph for Source & Content Reliability	
Proposal	DFR3 RFP2
Milestone	5+6
Submission Date	September 20th 2024
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Version	1
Remark	M6 API / Hostage costs: 📎 TrustLevel AWS Invoices
Github	https://github.com/TrustLevel/trustlevel-app

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1. MILESTONE DELIVERABLES

- 📄 DFR3 RFP-2: Milestone 1 +2
- 📄 DFR3 RFP-2: Milestone 3
- 📄 DFR3 RFP-2: Milestone 4

New: Milestone 5

Deliverables: M5 was dedicated to implement final improvements and to create the final documentation.

New: Milestone 6

Deliverables: M6 has no direct deliverables, as it is reserved for API/Hosting costs.

2. MILESTONE 5 Report

→ Quick Project Summary:

In the context of assessing objectivity or trustworthiness of textual information like news articles, knowledge graphs could allow users to make informed judgments about any topic by extracting news articles with the highest trust scores. For example, a user could query the knowledge graph to find out what Trump said about Israel and it would retrieve the news articles with the highest trust scores.

→ As already described in Milestone 4, we have finally fixed the last bottleneck by finalizing the TrustLevel News Bias Detector and making it available on the AI Marketplace.

Here is the link:

<https://beta.singularitynet.io/servicedetails/org/fafe2dc448cd4e0bb581d2c29020282f/service/trustlevel-bias-service>

→ The last step of this project was to use all app components together. The aim of the app is to find the news articles that have the highest trust score for a specific topic from any list of news articles.

In other words, the application works as follows:

1. Upload a list of news articles
2. The Trustlevel News Bias Detector analyzes each text and assigns a Trust Score from 1 (highest trust) to 0 (low trust).
3. The articles go through a Named Entity Recognition (NER), which tells us which names, organizations, etc. appear in each article.

Entity Types to Extract:

1. PERSON: Names of people.
2. ORG: Organizations, institutions, and companies.
3. GPE: Countries, cities, and states.
4. LOC: Physical locations like mountains, rivers, etc.
5. DATE: Specific dates or time periods.
6. EVENT: Events like elections, wars, sports events, etc.
7. NORP: Nationalities, religious, and political groups.
8. PRODUCT: Objects, vehicles, foods, and other products.

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4. A knowledge graph is created from the list of articles with the respective named entities. Each article, each publisher, each named entity is a node so that we can later search for entities or publishers and make topic-specific search queries.
 5. In the last step we can search for keywords and we get the articles in order according to their Trust score.

So, for example, if we want to know what is an article with a high trust score, if we want to know what Donald Trump or Joe Biden said about Israel. The keyword search would then be: Trump, Israel or Biden, Israel, etc. The search results are then displayed in a list.

You can find a video demonstration of the app here:

<https://www.loom.com/share/256312781db24ac9962f2fae4483a6d0>

→ We have created a new GitHub Repository that now includes all components together. We also updated the readme file, so everyone can easily rebuild the application.

Link to the repository: <https://github.com/TrustLevel/trustlevel-app>