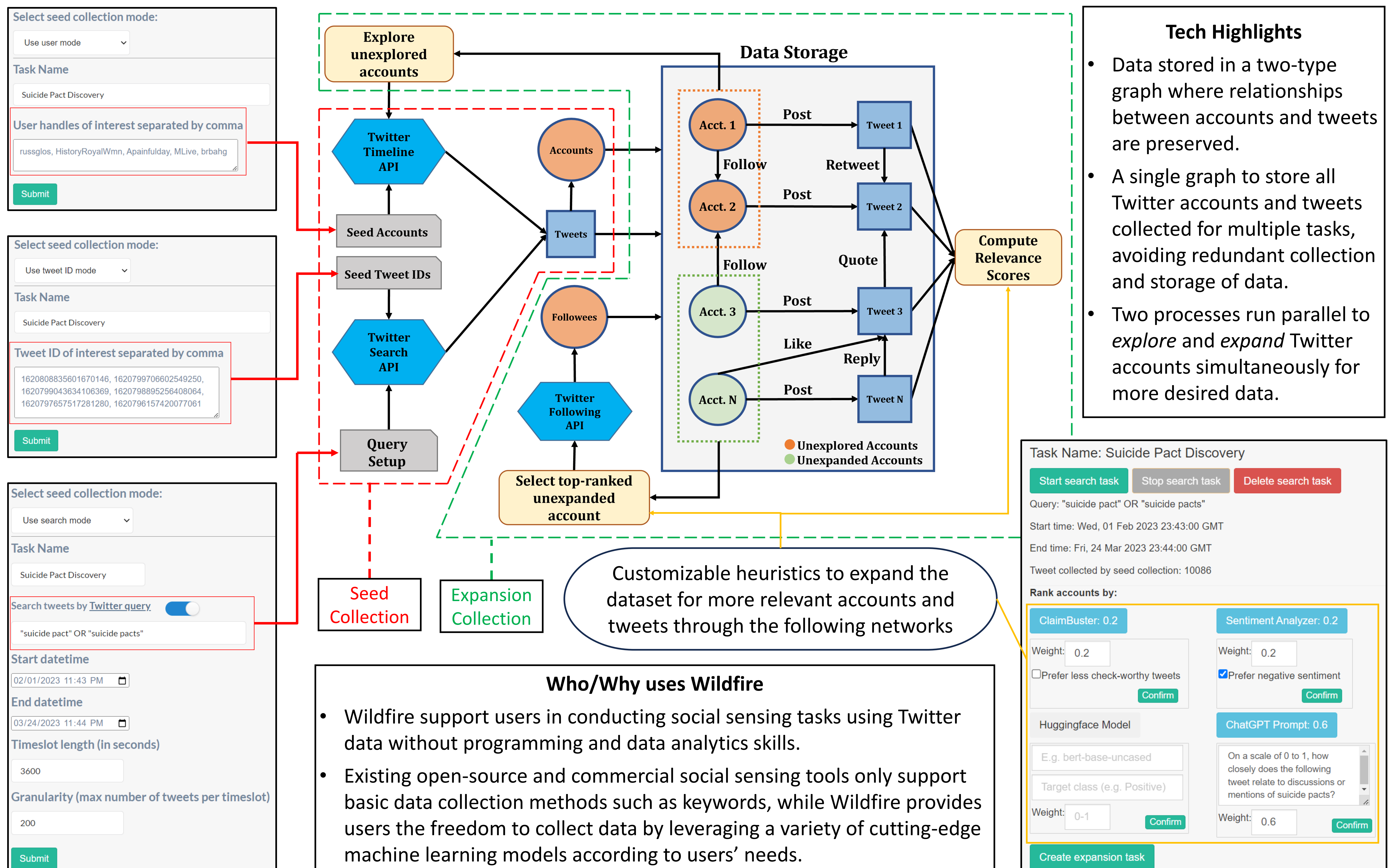


Wildfire: A Twitter Social Sensing Platform for Layperson

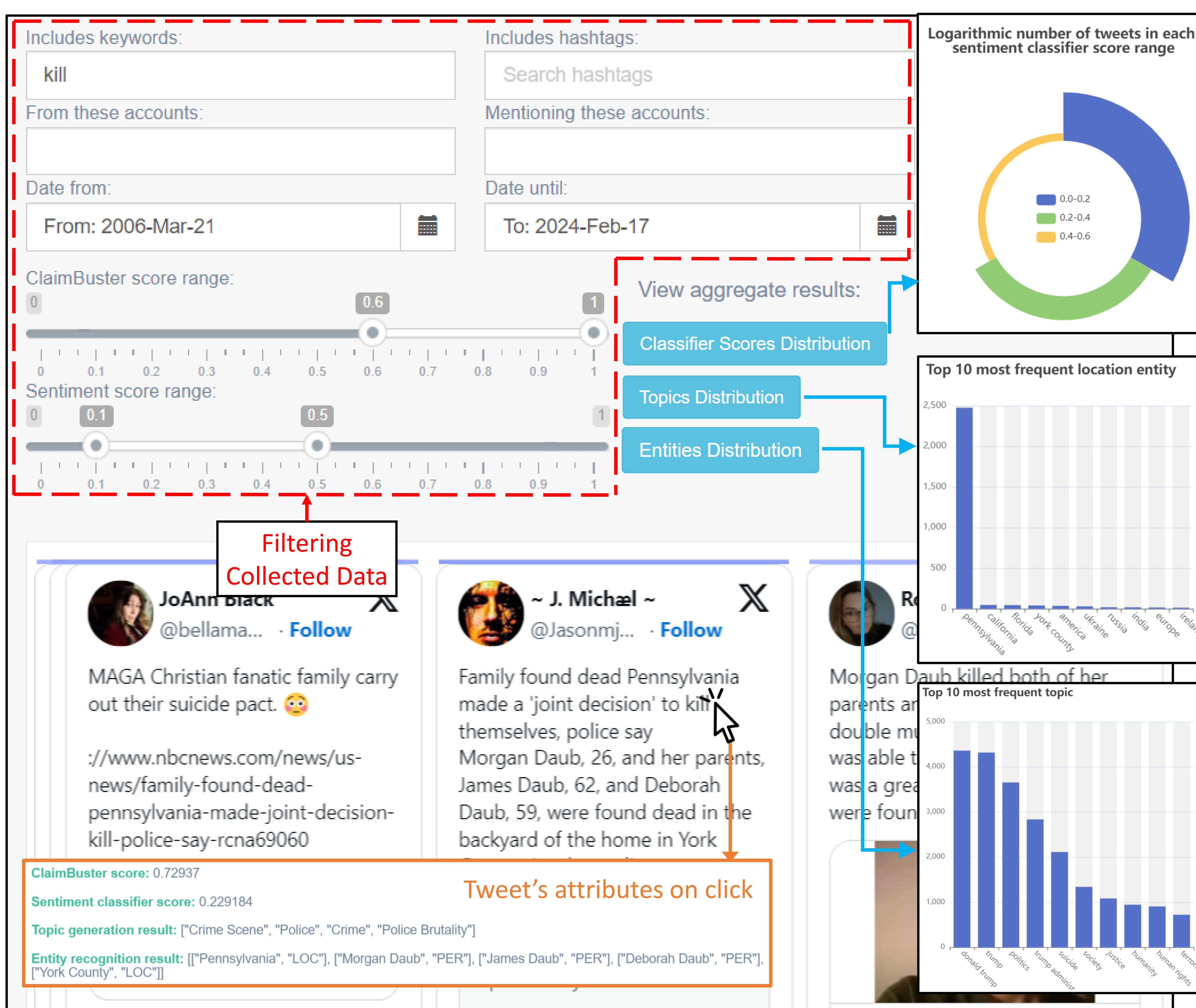
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User Interface & Data Collection Architecture



Data Analytics Interface

Use Cases



- ### How people make suicide pacts on Twitter
- Seed collection: used "suicide pacts" as keyword and retrieved 10,953 tweets.
 - Expansion collection: applied *Sentiment Analyzer* and *ChatGPT* in the ranking function. Additional 24,112 tweets and identified 8 accounts were retrieved within one hour.
 - Results: 79 out of 100 tweet samples from the 411 high-score tweets were relevant to suicide by manually checking.
- ### Identifying political polarization on social media
- Seed collection: used political keywords and retrieved 4,347 tweets.
 - Expansion collection: applied the *politicalTweetBERT* in the ranking function. Additional 6,280 tweets were retrieved.
 - Results: the high-scored tweets from the expansion collection were more relevant (67%) than those from the seed collection (48%) by manually comparing two random samples drawn from the two collections.

