

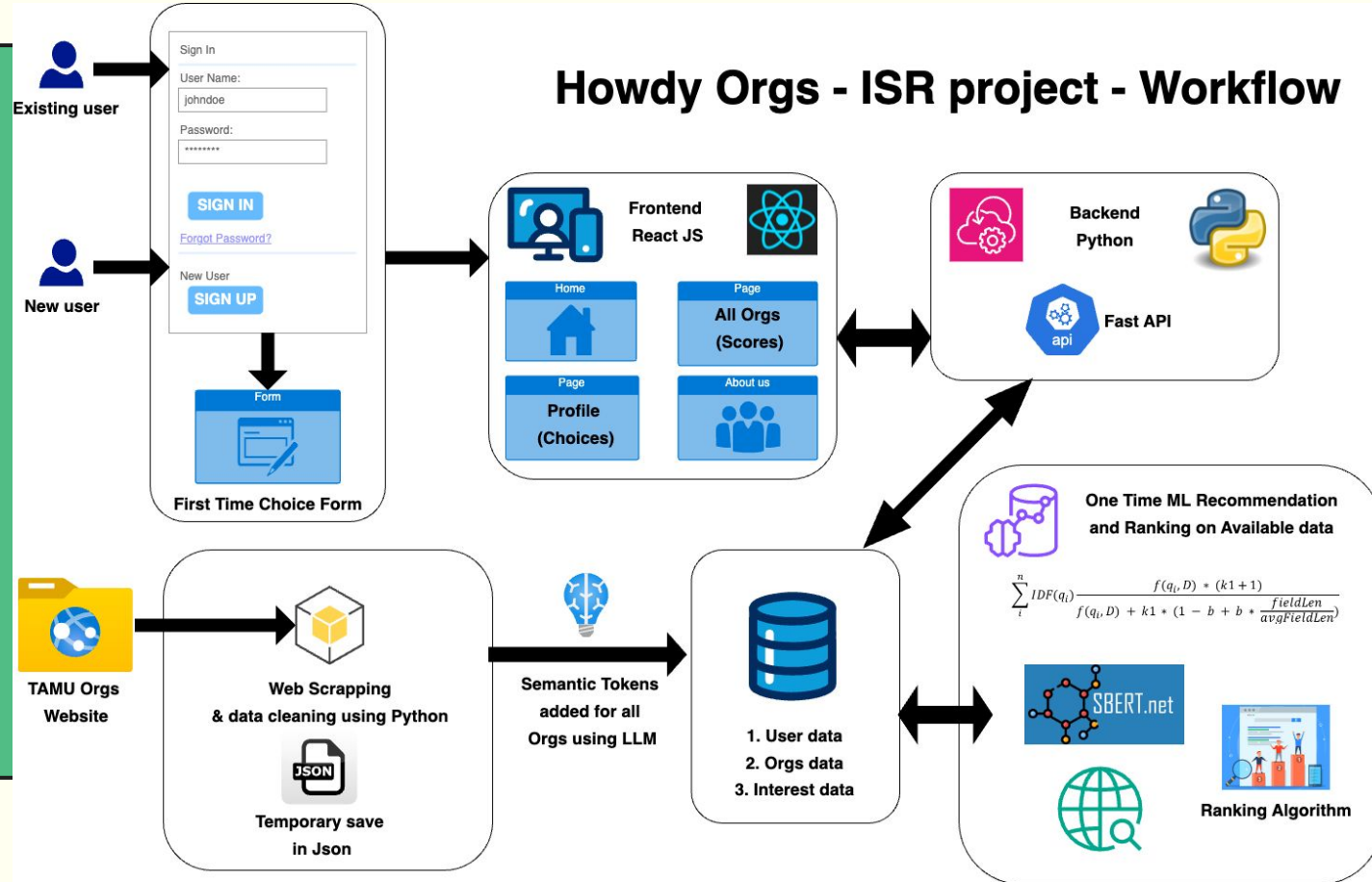
CSCE-670
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“Howdy Orgs”
***Find Your Aggitemates and
More !***
Project Showcase

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Workflow

Howdy Orgs - ISR project - Workflow



Recommendation

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How it works?

- **Content-based** approach using **BM25** for text relevance ranking
- User interests form the **query**
- **BM25** ranks orgs by description relevance
- **Top matches** are displayed in the frontend

Why BM25?

- **Cold-start friendly:** new users/orgs are supported
- **Fast, interpretable, and deterministic**
- Excellent for **keyword-based** and free-text interest matching



DATA

User Interests and Orgs Descriptions are needed



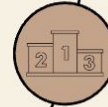
Text Relevance

Query Match is checked on the Data



BM25 Implementation

how well their text matches a query, using term frequency and rarity



TOP Matched Found

We get top 3



Home

User logged in sees it on Home Page

SBERT (Sentence-BERT) for Ranking Orgs

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BM25 limitations

- Word-matching only Misses semantic similarity

Why SBERT?

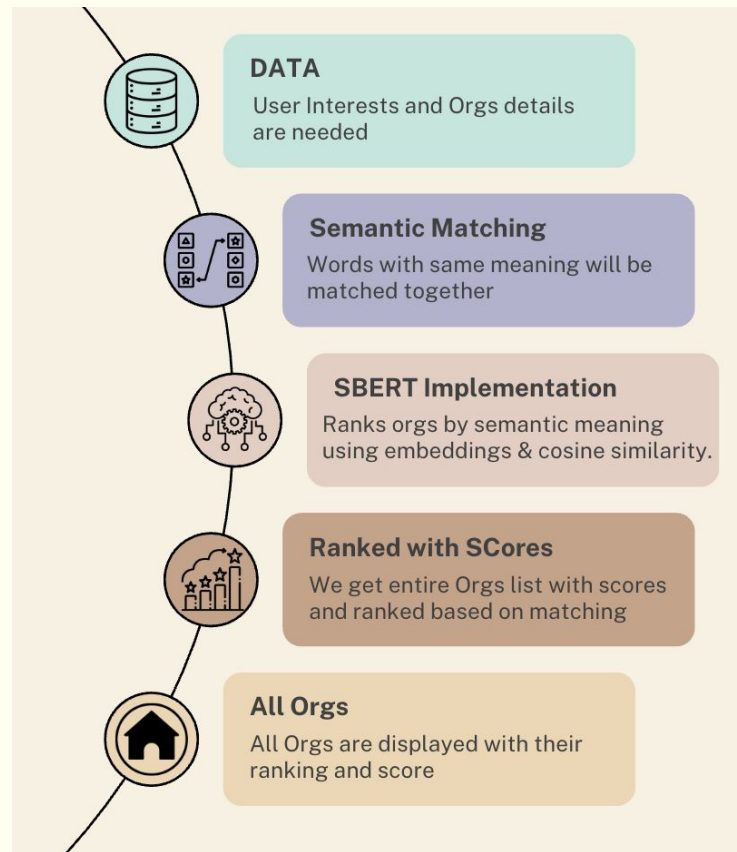
- Embeds user interests and org descriptions into vector space
- Uses **cosine similarity** for ranking
- Captures **semantic meaning**
- Fast, light

Model Used:

- **all-MiniLM-L6-v2**

How it works:

1. User interests → SBERT vector
2. Each org → SBERT vector
3. Compare via cosine similarity
4. Sort orgs by score → Top matches!





Thank You!

From Team Howdy Orgs

