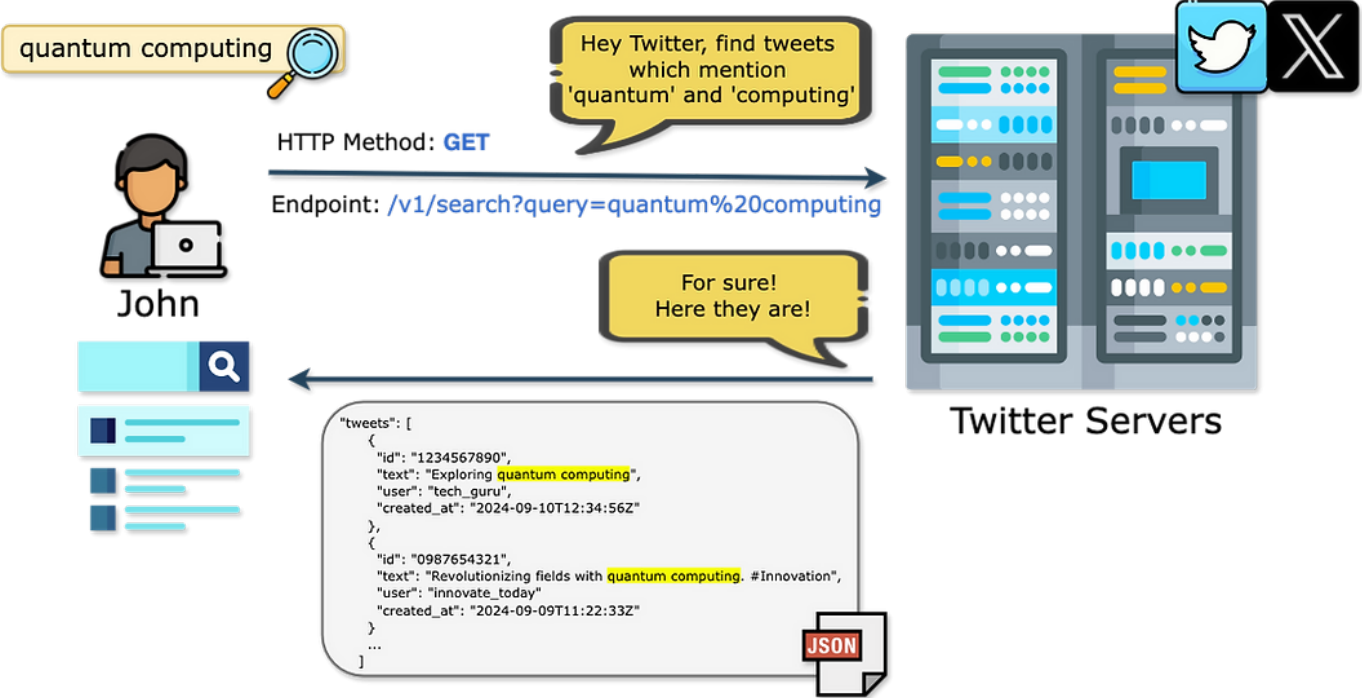
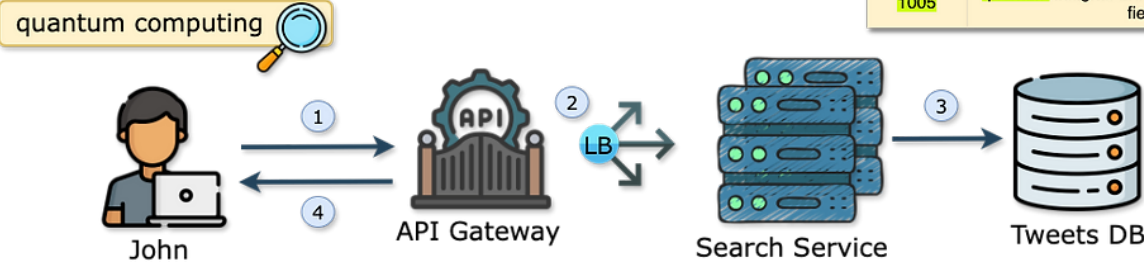


API Design- Twitter Search

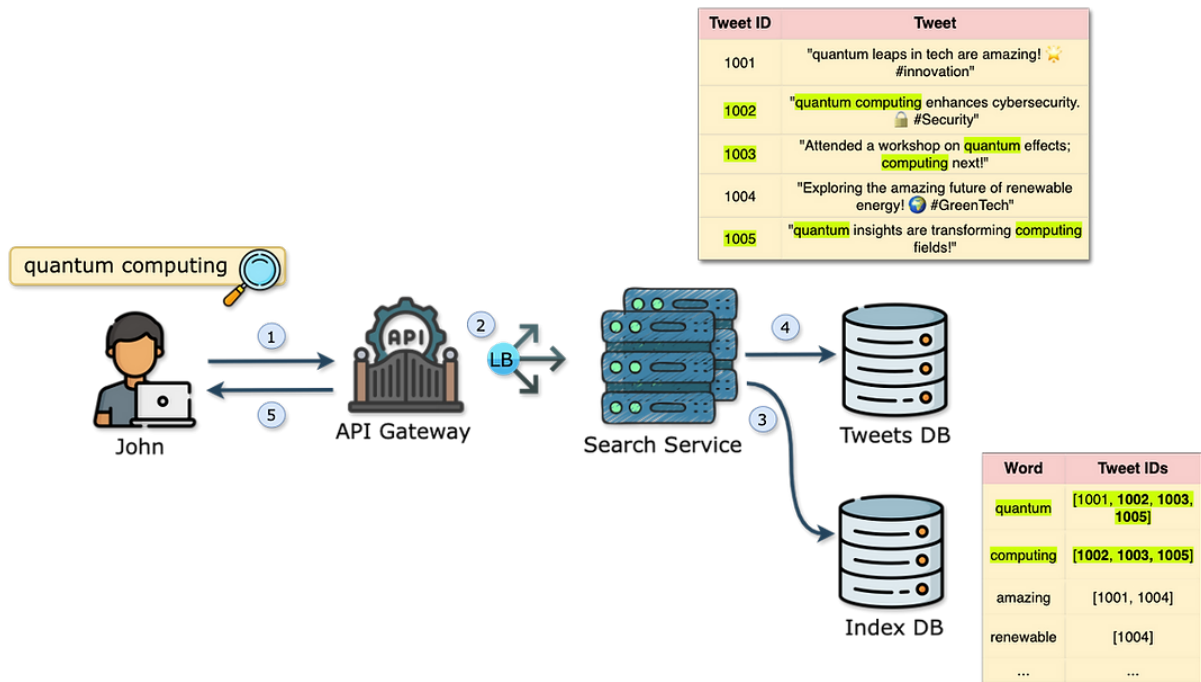


High Level Design- Twitter Search

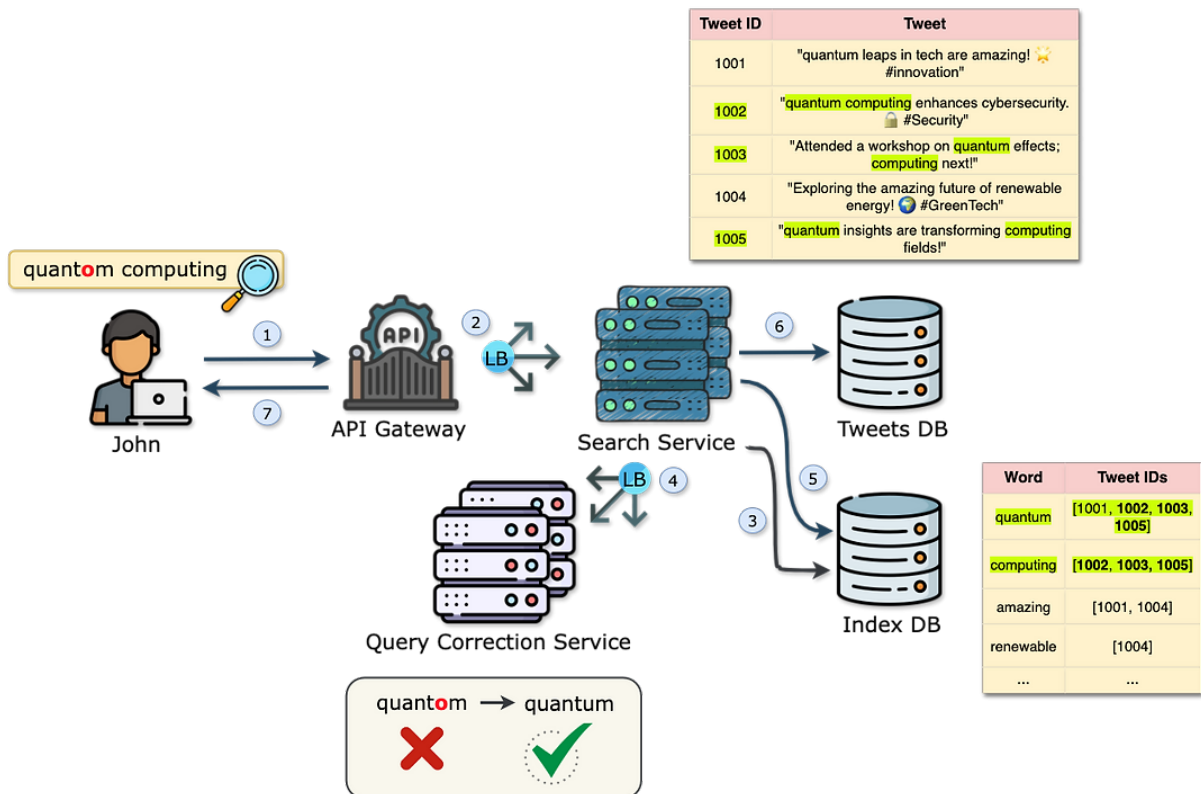
Tweet ID	Tweet
1001	"quantum leaps in tech are amazing! 🚀 #innovation"
1002	"quantum computing enhances cybersecurity. #Security"
1003	"Attended a workshop on quantum effects; computing next!"
1004	"Exploring the amazing future of renewable energy! 🌱 #GreenTech"
1005	"quantum insights are transforming computing fields!"



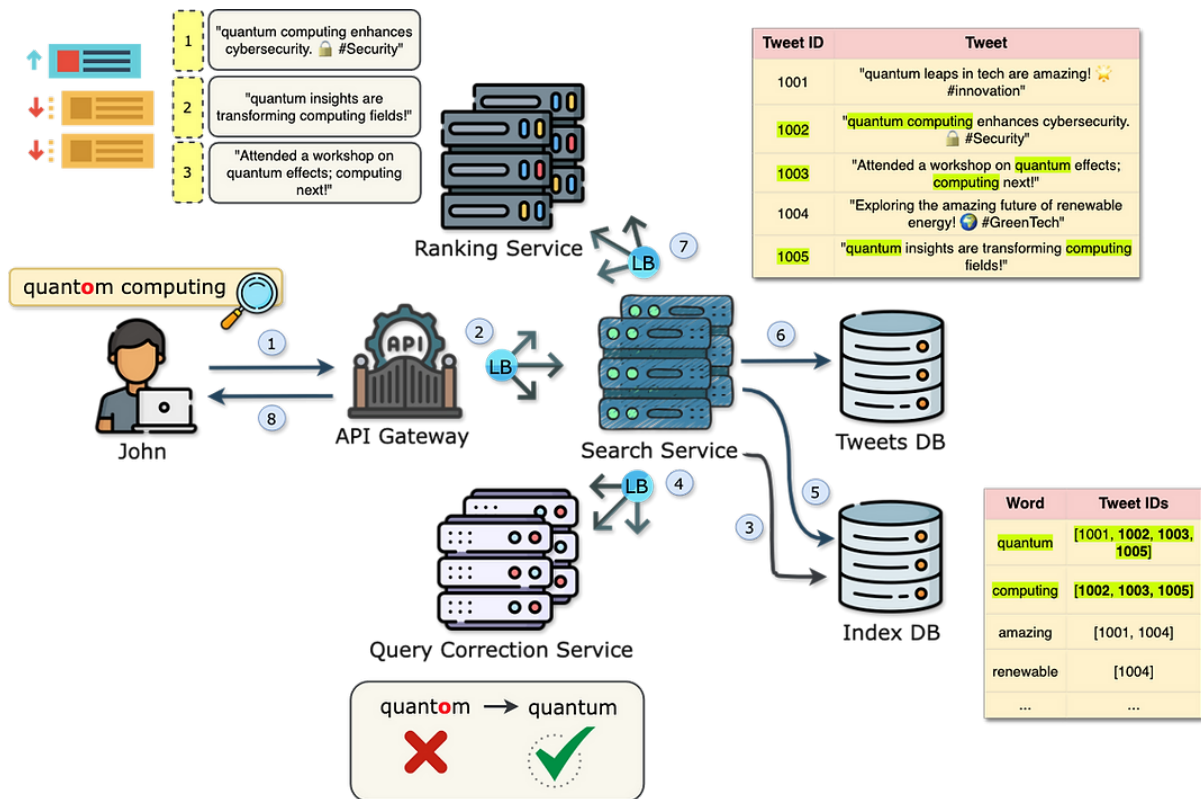
High Level Design- Twitter Search (Indexing)



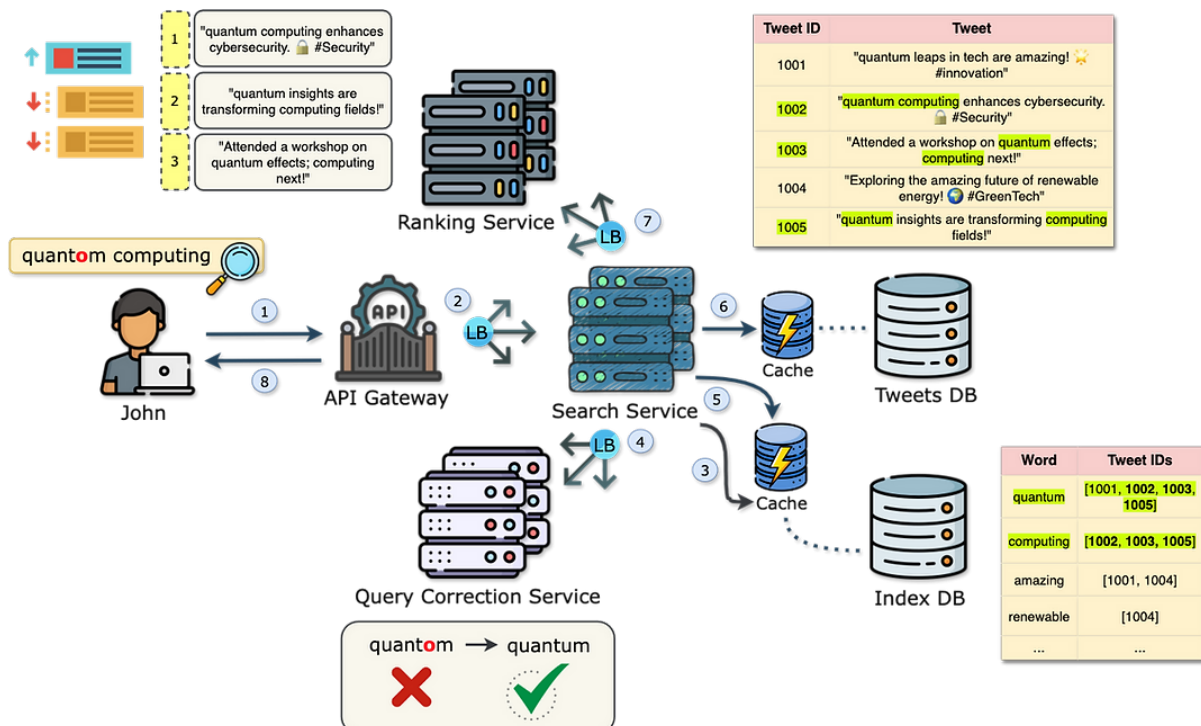
High Level Design- Twitter Search (Fuzzy Search)



High Level Design- Twitter Search (Ranking)



High Level Design- Twitter Search (Final Design)



DATABASE SCHEMAS

Tweets DB Schema



Tweets DB

```
{  
  "TweetId": "Unique identifier for each tweet",  
  "Text": "Content of the tweet",  
  "UserId": "Identifier for the user who posted the tweet",  
  "CreatedAt": "Timestamp when the tweet was created"  
}
```

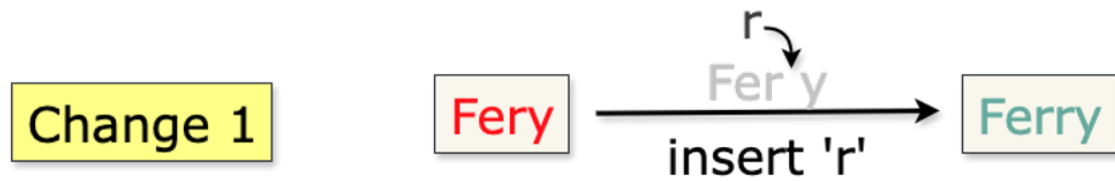
Index DB Schema



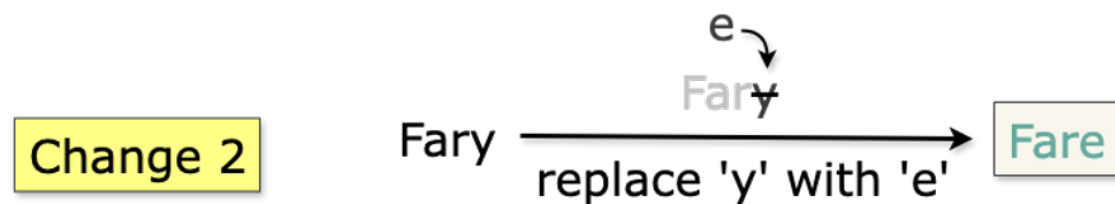
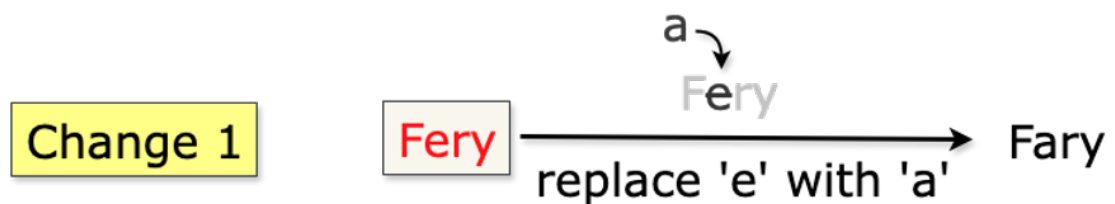
Index DB

```
{  
  "Keyword": "A specific word or hashtag",  
  "TweetIds": ["List of tweet Ids having this keyword in the tweet"]  
}
```

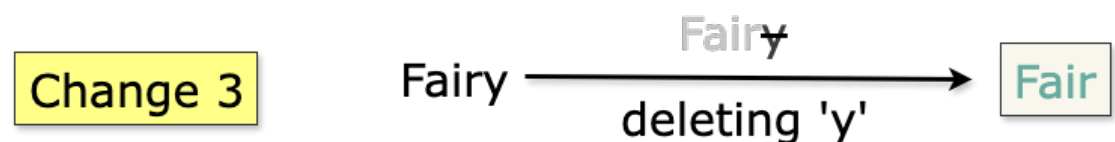
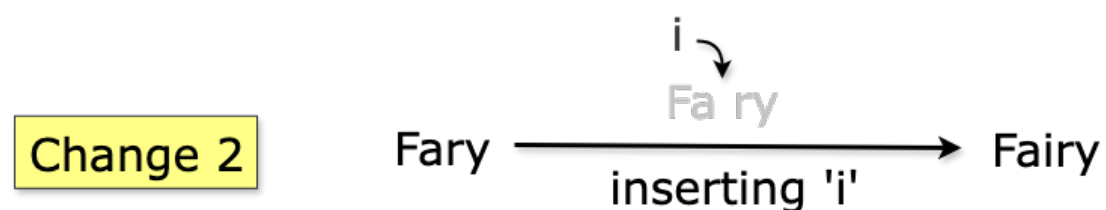
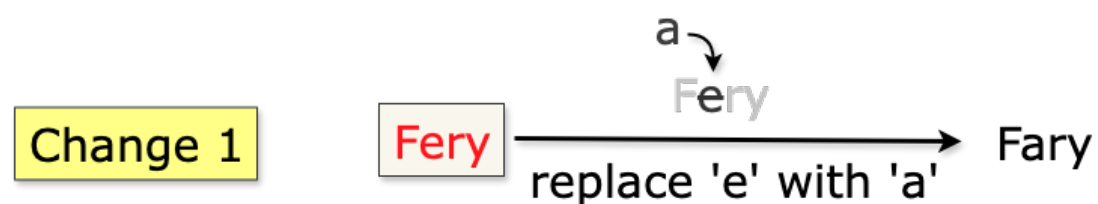
Query Correction Service (Fery to Ferry)



Query Correction Service (Fery to Fare)



Query Correction Service (Fery to Fair)



Elastic Search

