

# Social Network Search

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# Overview

## Social location Search.

- Graph based
- Use Graph traversal to weight search results
- Data Weighting through graph structure

# Requirements

- User Location
  - User  
Connections
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# Data

- Graph Nodes grouped by user Location
- Node connections weight based on social graph
- Graph structure based on location lead to data with high precision and recall

# Components

- Graph
- Query  
builder

# Functions

- Graph Creation
- Graph update
- Graph traversal
- Node Traversal
- Levenshtein  
search

# Limitations

- Precision and recall decrease with increasing distance of users
- Large constantly updating data set of locations
- compute resource directly proportional to users
- search slows as users location drift apart

# Assumptions

- Data sharded based on location.
- Accurate user locations.



# Implementations

- Social and location graph.
- node traversal through user connection and proximity of nodes.
- Search query based on user name using Levenshtein.

# Questions?

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