

Crawler

Responsibilities

- Crawls the Kijiji website with a starting seed value
- Parses data and input it to the database
- Terminates when max number of entries is reached or when it runs out of data

Collaborators

- Database

Database

Responsibilities

- Stores the result of data extracted by crawler in a database
- Returns data when asked

Collaborators

- None

Query Servlet

Responsibilities

- Receives request from front end and triggers crawler to run at given seed
- Sends confirmation to App that the data is ready

Collaborators

- Crawler

App

Responsibilities

- Interacts with the user
- Send user queries to Query Servlet
- When data is ready, trigger Chart View and Map View to run

Collaborators

- Query Servlet
- Map View
- Chart View

Map View

Responsibilities

- Displays data in a map view

Collaborators

- App

Chart View

Responsibilities

- Displays data in a chart view

Collaborators

- App
- Query Servlet

Map View Servlet

Responsibilities

- Receives request from Map View
- Retrieves data from database and directs it to Map View

Collaborators

- Database
- Map View

Chart View Servlet

Responsibilities

- Receives request from Chart View
- Retrieves data from database and directs it to Chart View

Collaborators

- Database
- Chart View