

Final Presentation

Team 3: Download of public facing data for registered users

Jerry Bonnell Gururaj Shriram Lixiong Liang Heyu Yao
Erica Chang

May 7, 2018

Agenda

1 Requirements

2 Architecture

3 Demo!

Requirements

Project Purpose

- Users are interested in **downloading**:

Data types

- 1 **Cadastral** data - points and polygons on a map
- 2 **“Storytelling”** data - images, videos, audio files, etc.

- **Purpose:** Users can create their own maps from this data
 - e.g. a map pertaining to bus stop information
 - Expedites the process of receiving land titles.

Functional Requirements

- User can choose an **output format** for queried data and download **locally** to computer.
 - **Cadastral** data: Convert data to Geojson, KML, shapefile, CSV
 - **“Storytelling”** data: fetch directly for each request

Functional Requirements

- User can choose an **output format** for queried data and download **locally** to computer.
 - **Cadastral** data: Convert data to Geojson, KML, shapefile, CSV
 - Also topojson!
 - **“Storytelling”** data: fetch directly for each request

Non-functional Requirements

- Must handle up to 3 **simultaneous** requests.

Non-functional Requirements

- Must handle up to 3 **simultaneous** requests.
- *Tried up to 100 simultaneous requests!*

Architecture

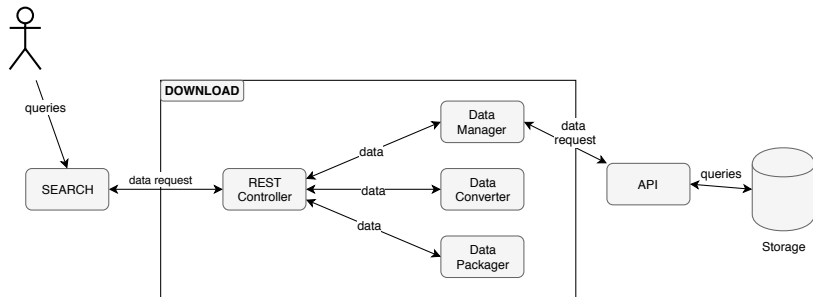
Architectural Style: Three-tier

Client-server tier: Allows download server to handle requests

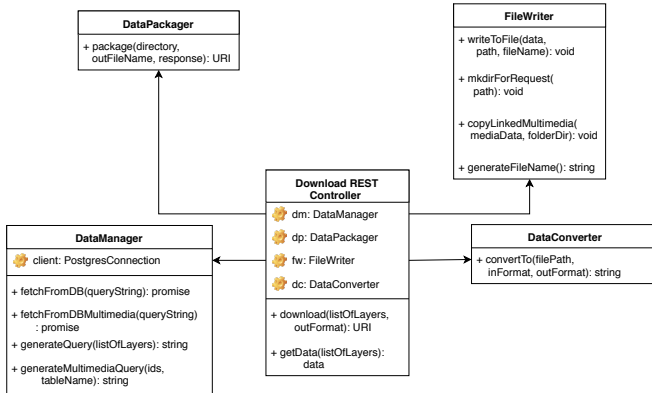
Business tier: converts and archives data

Database-centric tier: requests geospatial data from database

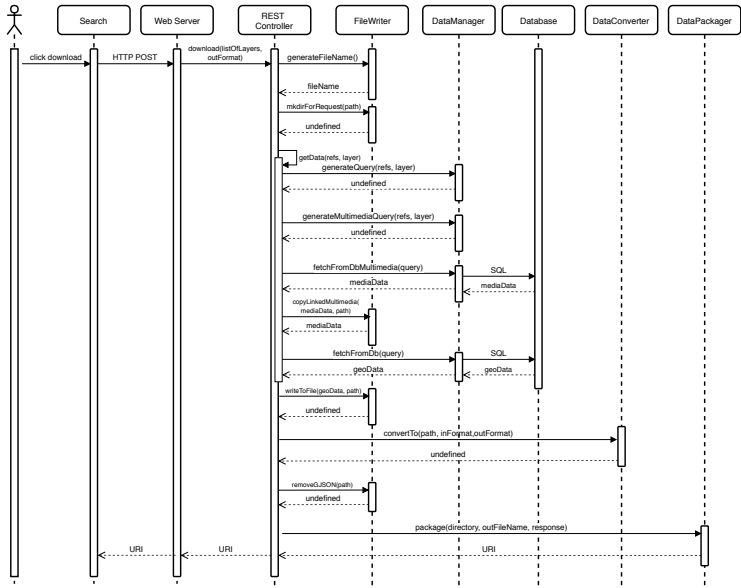
System Diagram



Class Diagram



Sequence Diagram



Demo!

Questions?