

Design Review

Team 3: Download of public facing data for registered users

Jerry Bonnell Gururaj Shriram Erica Chang Heyu Yao
Lixiong Liang

March 24, 2018

Team Purpose

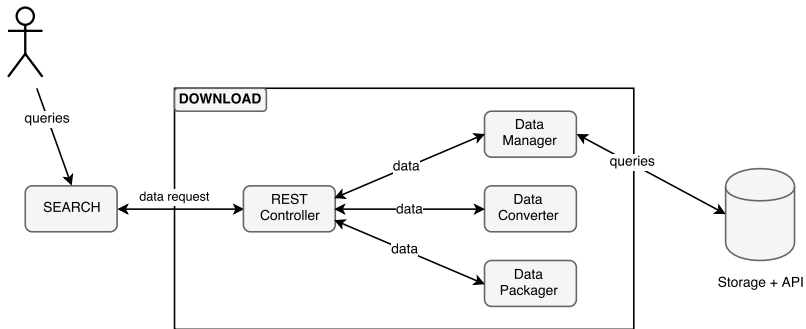
- Users are interested in **downloading**:

- 1 **Cadastral** data - details of ownership, location, dimensions, and area
- 2 **“Storytelling”** data - interview recorded on a day, series of points detailing a garbage problem, etc.

End-to-end Pipeline

- 1 **REST Controller** receives download request.
- 2 **Data Manager** queries data from the database from provided list of layers.
- 3 **Data Converter** converts data to requested output format.
- 4 **Data Packager** packages data before submitting it to the browser for local download.

System Diagram



Cross-cutting Requirements

SEARCH	DOWNLOAD	DATABASE
download button on UI	web server	storage

- 1 Performing a Download** search, download, database
- 2 Gathering Geospatial Data** download, database

Architectural Style: Three-tier

Client-server tier: Allows download server to handle requests

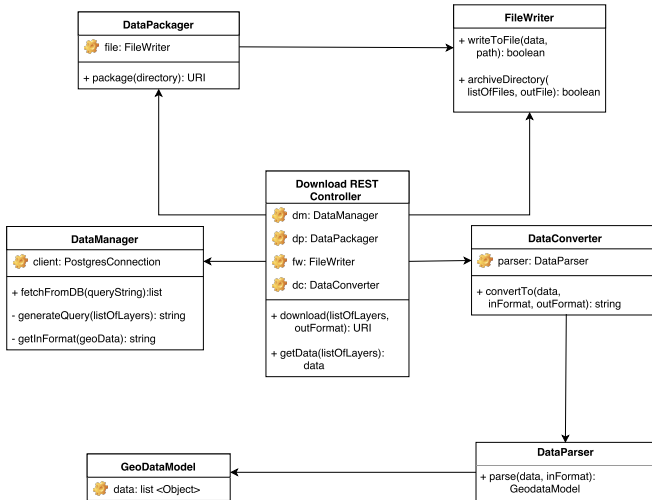
Business tier: converts and archives data

Database-centric tier: requests geospatial data from database

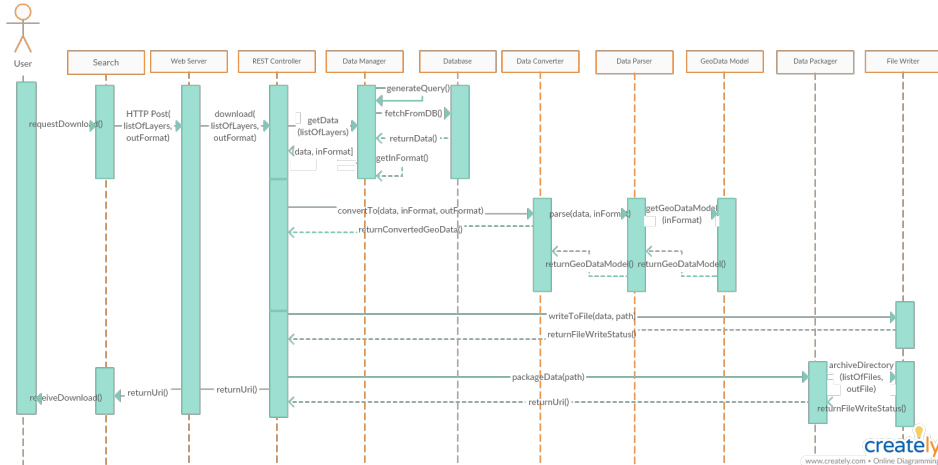
express



Class Diagram



Sequence Diagram



Questions?