

Design Review

Team 3: Download of public facing data for registered users

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Team Purpose

- Users are interested in **downloading**:

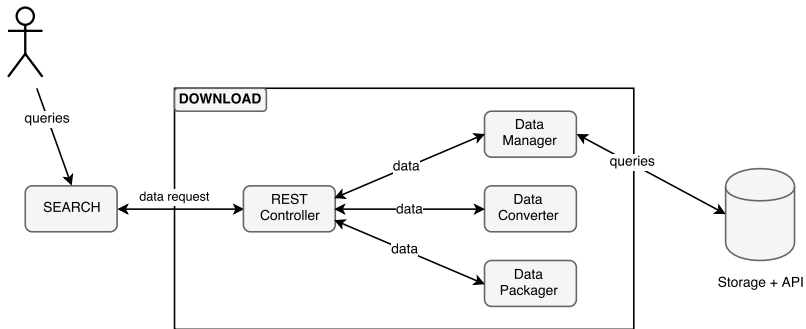
- 1 **Cadastral** data - details of ownership, location, dimensions, and area
- 2 **“Storytelling”** data - interview recorded on a day, series of points detailing a garbage problem, etc.

- **Purpose:** Users can create their own maps from this data
 - e.g. a map pertaining to bus stop information
 - Quickens the process for surveying land to receive land titles.

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

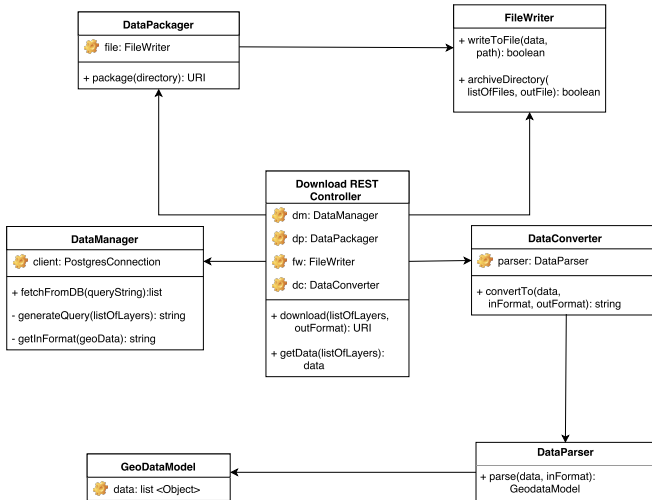
Business tier: converts and archives data

Database-centric tier: requests geospatial data from database

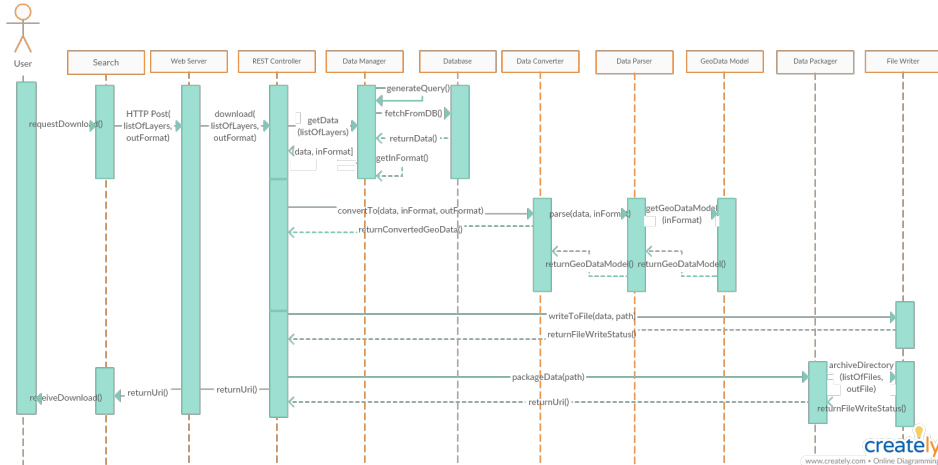
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Class Diagram



Sequence Diagram



Questions?