**PROJECT-2-VISUALIZATION REQs**

* Python Flask–powered RESTful API
* HTML/CSS
* JavaScript (including *at least 1 JS library that we haven’t covered*)
* At least one database (SQL, MongoDB, SQLite)
* User-driven interaction (e.g., menus, dropdowns, textboxes)
* At least 100 records in dataset
* At least 3 views

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**Topic  
Minnesota school districts (map)**

* **Show funding and/or spending per student by district**
* **Avg teacher salary**
* **Test scores or reading/math proficiency**

**Possible visualizations**

**Potential data sources:**

National Center for Education Statistics (NCES). School District Boundaries-Current. Downloaded 4/2/2020 from <https://data-nces.opendata.arcgis.com/datasets/school-district-boundaries-current/data?where=STATEFP%20%3D%20%2727%27>.

Filtered by FIPS code for Minnesota districts only; 340 records. Converted file from CSV to JSON. More information on the dataset is available at

<https://nces.ed.gov/programs/edge/Geographic/DistrictBoundaries>.

Created CSV with the following data for each district.

* Per Pupil Expenditures – calculated by dividing general fund expenditures by average daily membership
  + 2018-2019 General Fund Expenditures (Minnesota Department of Education (MDE). General Fund unreserved Balance for FY 2013-Present. Downloaded 4/4/2020 from <https://public.education.mn.gov/MDEAnalytics/DataTopic.jsp?TOPICID=43>.)
  + 2019 Average Daily Membership (Minnesota Department of Education (MDE). 2019 Average Daily Membership. Downloaded 4/4/2020 from <https://public.education.mn.gov/MDEAnalytics/DataTopic.jsp?TOPICID=2>.)
* 2019 Average Teacher Salary (Minnesota Professional Educator Licensing and Standards Board (PELSB). 2019 Licensed Average Salary by District. Downloaded 4/4/2020 from <https://public.education.mn.gov/MDEAnalytics/PELSB.jsp?TOPICID=437>.)
* 2019 Percent Proficient in Reading (Minnesota Department of Education (MDE). 2019 Reading MCA MTAS Results. Downloaded 4/4/2020 from <https://public.education.mn.gov/MDEAnalytics/DataTopic.jsp?TOPICID=1>.)