**Team\_Project\_2 Proposal**

Tell a Story with Data

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| Project Title: | The global digital divide: An analysis of internet usage across the world |
| Team Members: | Anna Wrobel  Latyr Thiao  Lujane Abdelgadir  Prajakta Galvankar  Stephen Zhang |
| Project Description / Outline: | For our project, we want to analyse global disparities, primarily between developed and developing countries, in regards to access to resources such as the Internet and the opportunities derived from such access. |
| Research topics: | 1. Rank countries/regions by number of internet users 2. Rank countries/regions by level Internet penetration 3. Comparison between cost and speed of internet by country 4. Comparison between internet penetration and income per capita 5. Impact of ICT on freedom, government, education and other aspects |
| Datasets to be used: | <https://data.worldbank.org/indicator/IT.NET.USER.ZS>  <https://www.internetworldstats.com/>  <https://ourworldindata.org/internet#all-charts-preview>  <https://datahelpdesk.worldbank.org/knowledgebase/articles/898581-api-basic-call-structures>  <https://www.comparethemarket.com/broadband/content/global-broadband-index/>  <https://thewebindex.org/downloads/> |
| Requirements | 1. Your visualization must include a Python Flask–powered RESTful API, HTML/CSS, JavaScript, and at least one database (SQL, MongoDB, SQLite).  Our data analysis process will proceed as follows:  CSV(Splinter) ==> Pandas ==>SQL ==> Flask ==> Json ==> Html  2. Your project should fall into one of the below four tracks:  ○ A combination of web scraping and Leaflet or Plotly  ○ A dashboard page with multiple charts that update from the same data  3. Your project should include at least one JS library that we did not cover.  To be discussed.  4. Your project must be powered by a data set with at least 100 records.  See above “Datasets to be used”  5. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).  Navigation menu between views/pages, Dropdowns for region and country  6. Your final visualization should ideally include at least three views.  Global internet coverage (Map of all countries + Top and bottom 10 countries)  Regional internet coverage (Regional comparison by level of coverage)  Country profile (Map + metadata showing income and internet coverage) |

**Data Source ERD**

