**Technical Document**

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**Main Purpose**

This dashboard is for user 1. checking how people regards of their timing in activity of children caring; 2. Seeing the trend of people time spending in children caring from 2008 – 2018; 3. Viewing the percentage of young generation in each country of the world.

**Data Sources:**

Young Population Percentage of all Country in the World (2016) from website <http://world.bymap.org/YoungPopulation.html> and from this website , the data source is CIA World Factbook (2017-01-10). Since IP may block due to too many times accessing, I download data to csv document to be use.

Pew Research Center ([https://www.pewresearch.org/fact-tank/2018/03/09/how-to-access-pew-research-center-survey-data/)](https://www.pewresearch.org/fact-tank/2018/03/09/how-to-access-pew-research-center-survey-data/)Social) Social Trend Database; Survey of American Parents (Survey Details: Conducted September-October 2015 | File Release Date: 20 January 2017)

American Time Use Survey (<https://www.bls.gov/tus/#database>) Table 1. Time spent in primary activities and percent of the civilian population engaging in each activity, averages per day by sex, annual averages

**Justification:**

Data of Young Population Percentage of all Country in the World is used for

describing the population structure of all countries, and the U.S is at the below half rank. Also, this data and graphic interaction could be used for checking other countries Young Population Percentage for comparation.

From bar chart of Survey of American Parents at Question 12, which is thinking about the time you spend with your children/Do you think you spend too much time with your children, too little time or about the right amount of time? Most parents believed that they spend a right amount time in children caring and 30% percent of all survey participate believe they time is not enough.

Also, from the time series data, the trend of time with children is decreasing these ten years. And men obviously spend less time than women in children accompany activity. The total button is putting above three time series line chart together.

**Limitation:**

The time series data of Time Spend in Children Caring activity in each day doesn’t cover all countries and this dataset doesn’t been connected with Data of Young Population Percentage to see other country’s parents time spending in children

**Visualizations:**

This dashboard is based on three part, the first part is Young Population Percentage of all Country in the World (2016), in this part, dashboard user could select any country they interested and then the dashboard will show the percentage of young generation at this country and the rank in all country from high to low of percentage.

The second part is bar chart based on the Survey of American Parents showing how parents regards of their time in children caring.

The third part is time series graph from 2008 to 2018 and group in sexual which shows how percentage of children caring in daily activity changing these ten years and dashboard user could select men / women / women and men and all category to view the difference in these categories.