

# Milestone 2

Prototype : [Link](#)

## Project goal :

Exploring global education through interactive visuals to uncover the diversity and disparities within school systems across various landscapes.

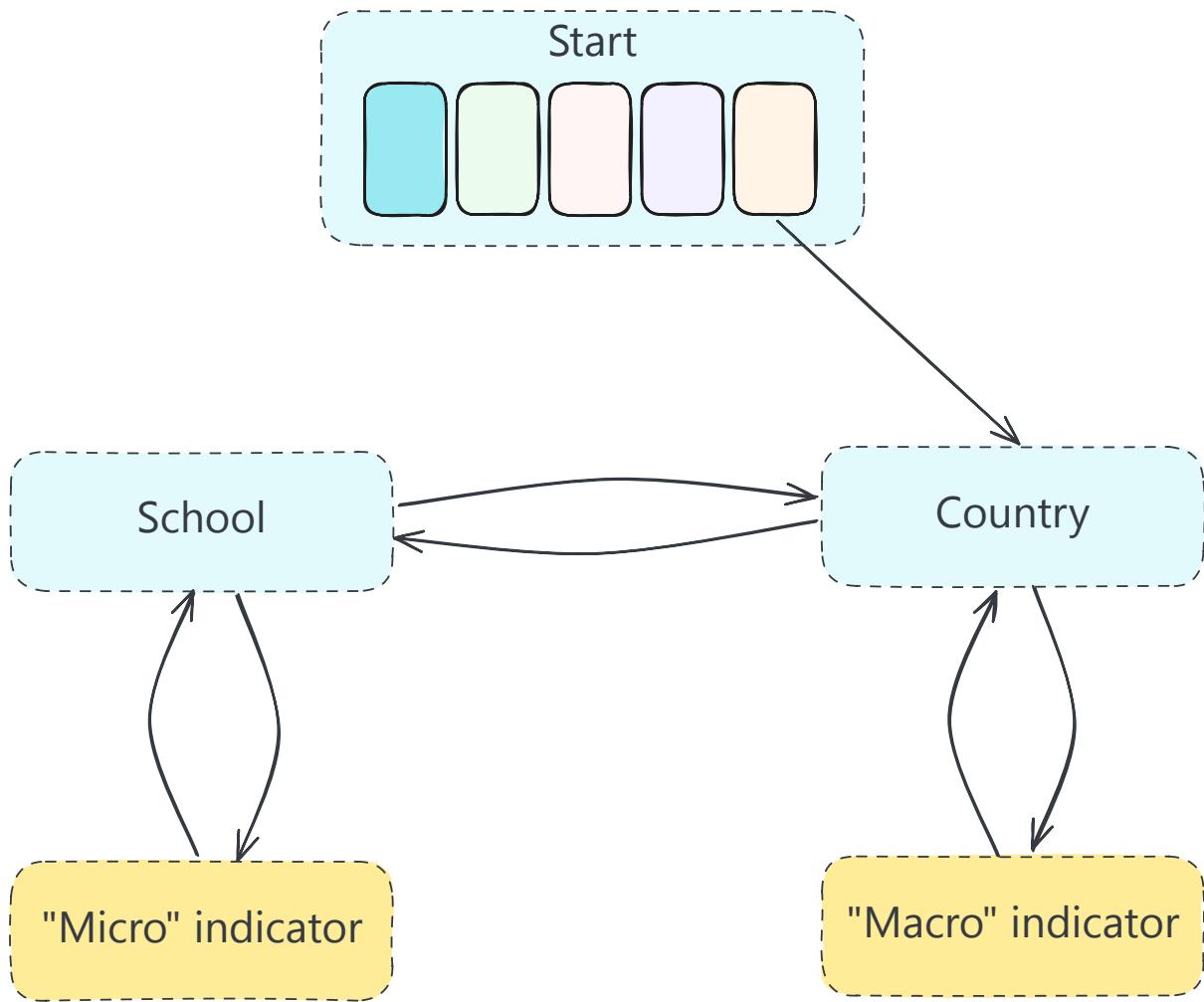
## 1. Objectives of the visualisation

In order to highlight the disparities between different schools, we wanted a visualisation allowing the user to :

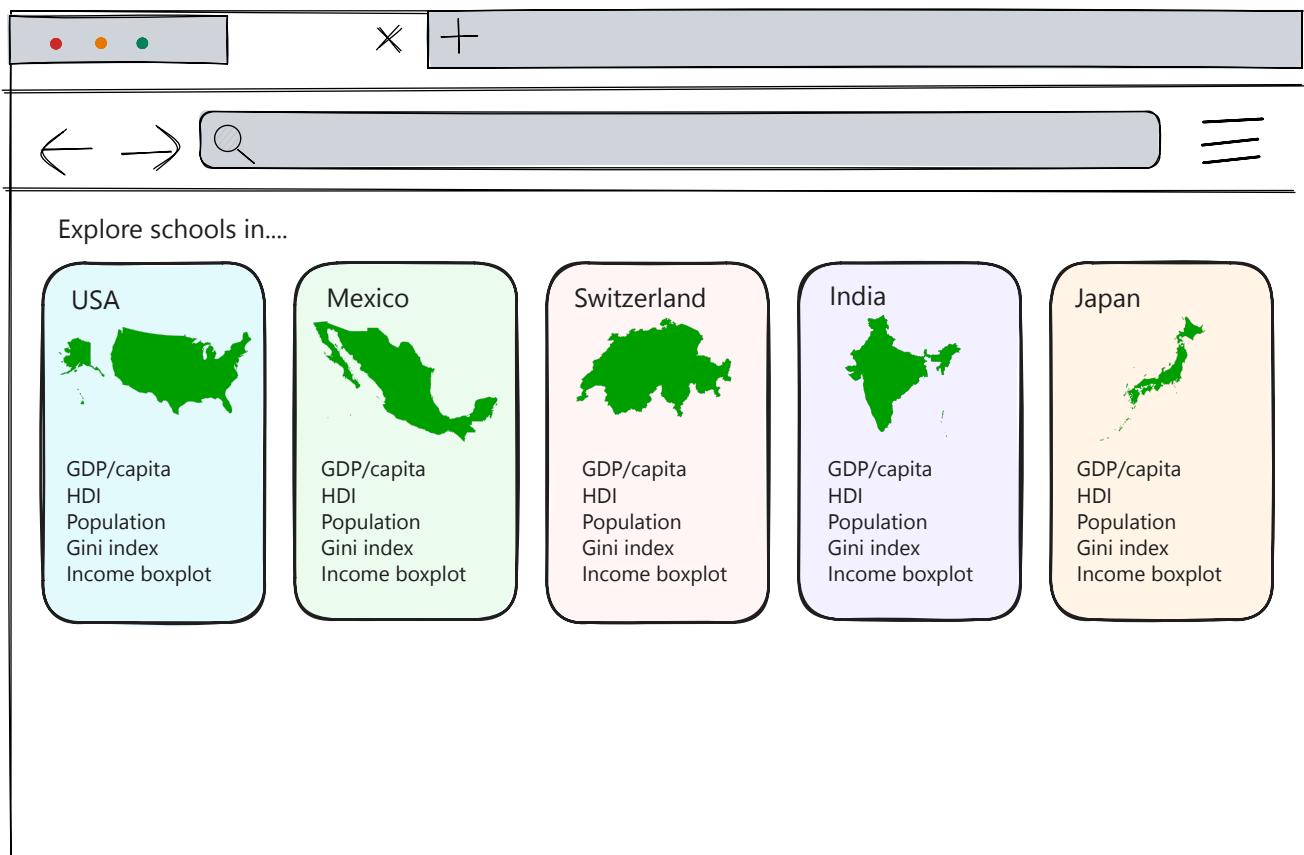
1. Explore many indicators, on different scales, highlighting either the differences or some possible causes of those differences between schools or school systems.
2. Discover quickly disparities within the world or within a same country
3. Discover links between indicators and/or school conditions

## 2. The visualisation

The project will allow users to create their own infinite story, navigating between school systems (i.e. countries) or individual schools (+/- 3 per countries) by selecting indicators (either "macro", so by country, or "micro", so by school). The previous steps in the story will be kept, allowing the user to visualise its whole travel.



On opening, the website will display 5 countries, their map and some generic information about the countries:



Once the user has selected a country, it displays a card with more information about the selected country, and on the map of the country, the different schools for which we have information:

Explore schools in....

The user can then either select an indicator (for example the enrolment figures) and compare the results for this indicator between the countries, or click on a school and see the profile of this school:

Explore schools in....

USA

GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

Mexico

GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

Switzerland

GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

India

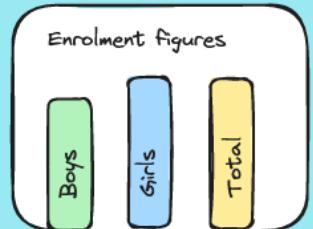
GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

Japan

GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

## Schools in USA

Click on a school or data to explore more !



GDP/capita  
HDI  
Population  
Gini index  
Income boxplot

Government expenditure on education  
% of public schools  
literacy rate  
mean number of years in school  
PISA score

## J.Biden School, NY A school in the US

500\$/year

Subjects :  
- 2nd language  
- History  
- Music



Canteen



Classroom



Sport room

cost of house  
in the neighborhood  
**\$6m**



Satellite image



Science class



Infirmary

From this, the user could for example click on a numeric value to compare this "micro" indicator with the corresponding values for other schools, then click on the value of a school to see the page of a new school:

J.Biden School, NY A school in the US

500\$/year

10 students/class

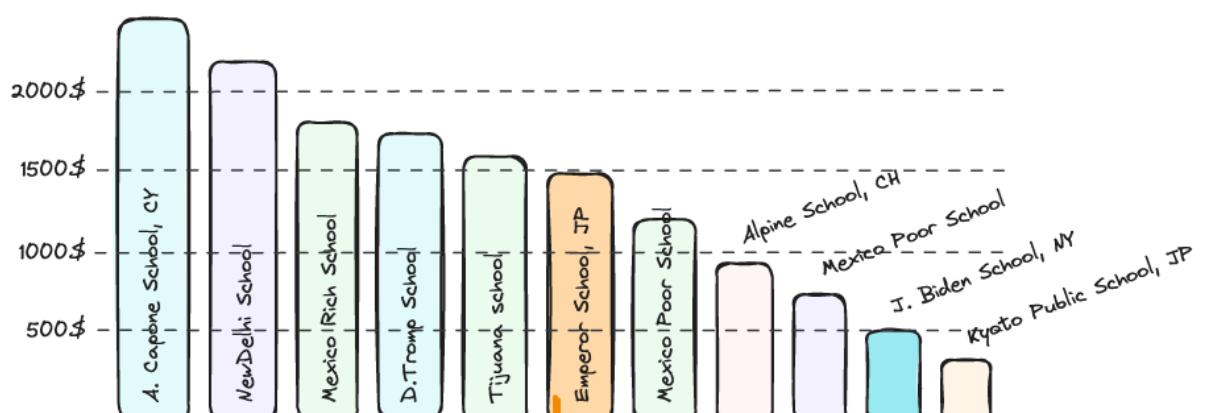
Subjects :

- 2nd language
- History
- Music

Canteen Classroom Sport room

Satellite image Science class Infirmery

### Cost of school for parents, per year



Emperor School, Tokyo A school in JAPAN

1500\$/year

**Subjects :**

- 2nd language
- History
- Music



Canteen



classroom



Sport room

cost of house  
in the neighborhood

\$3m



Satellite image

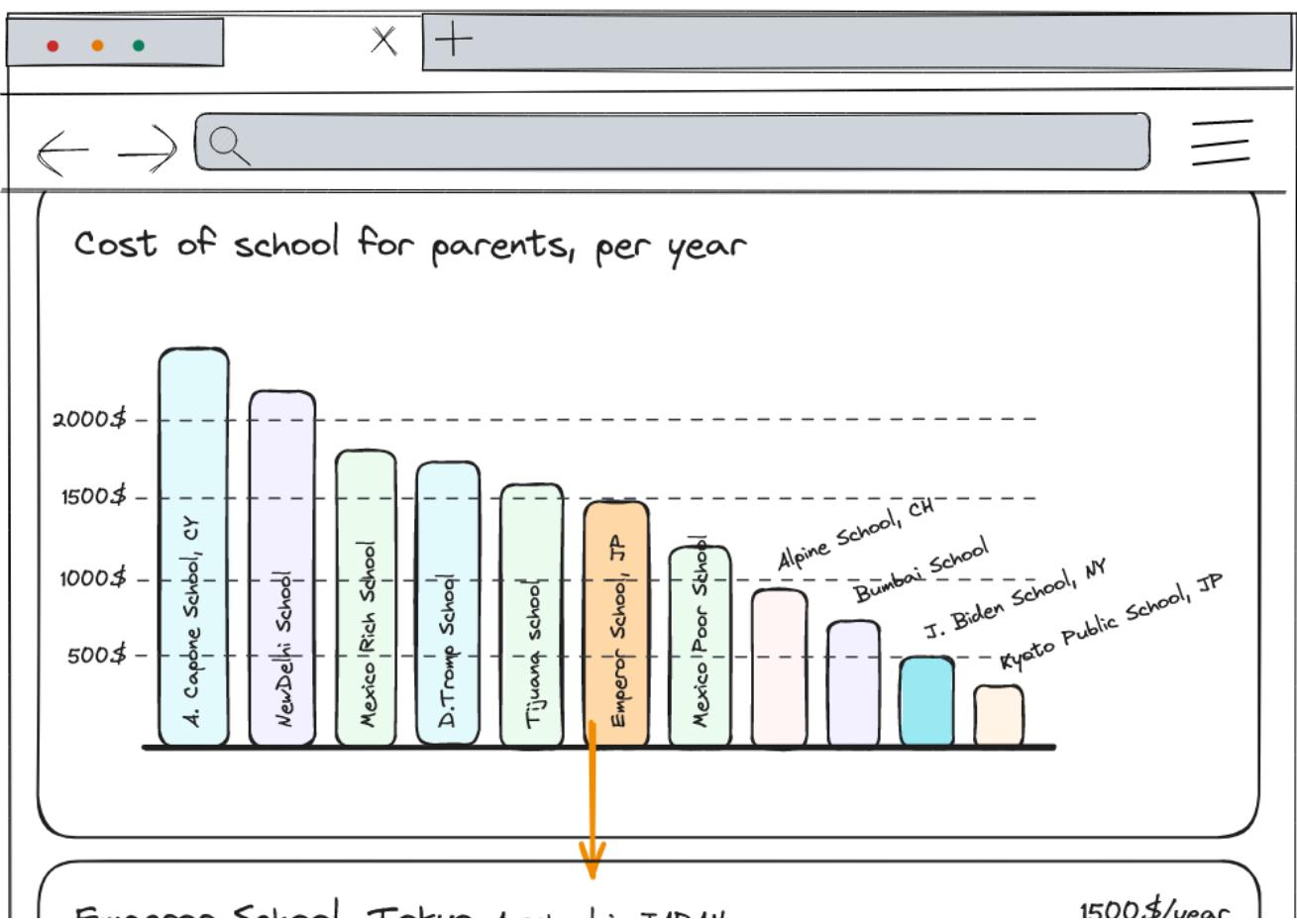


Science class



Infirmary

The user can also click on an image of a facility to compare the facilities of different schools :



## EMPEROR SCHOOL, TOKYO A SCHOOL IN JAPAN

16 students/class

- Subjects :
- 2nd language
  - History
  - Music



Canteen



Classroom



Sport room

cost of house  
in the neighborhood  
**\$3m**



Satellite image



Science class



Infirmary

### Canteens



J. Biden School, NY, US



Emperor School, Tokyo, JP



Alpine School, VD, CH



J. Biden School, NY, US



Bumbai School, India



D. Tromp School, FL, US

## 3. The implementation

In order to implement the visualisation, the project can be broken down into several independent blocs :

1. General website behaviour, data management
2. Country blocs and associated visualisation
3. School blocs and associated visualisation
4. "Macro" visualisations (indicators over countries)

5. "Micro" visualisations (indicators over schools)

6. Picture visualisation

Additionnal features that could be added if time permit have also been identified :

- Keeping track of which schools/countries have been visited to highlight them
- Allow additional filtering in the data (e.g. by genre or by age) if we have the data for it