# Review of the existing OPENEDU structure and functionality

This review is the result team members using the webpage and trying to do some back engineering of its usability. Also, the insight from the interviews to possible users of opened are considered

## Filters

We find there is some issues within the filters and that these are not so easy to understand. Here some of the issues we considered should be:

1. The filters should be implemented in series. If one choses a given entry on a filter, in the next filter only those entries containing overlapping projects should be available. Ex. If the level beginner is chosen and there are only projects for beginners written in English, then in the language filter only English should appear, and not as for now that all languages can still be chosen.
2. The original language in which a given project exists in the Wikimedia community should agree with the language(s) chosen to show the project. Or at least, if the original project information is not in … Ex. The project “READING WIKIPEDIA IN THE CLASSROOM“ is shown no matter the language chosen in the filters. However, on the project [website](https://outreach.wikimedia.org/wiki/Education/About/Education_Team/Reading_Wikipedia_in_the_Classroom/es), the project information is not given in all the languages. So, the user might have expected to find the material in French, but it is not available. A differentiation must be done specifying in which language the opened user can find the documentation.
3. The three main filters (training, projects and news) are confusing. The user might get a wrong idea of the capabilities and scope of openedu. We suggest having a cleaner homepage, that is increasing on capability and filters as one scroll down the webpage. Maybe something like in this webpage <https://www.europeana.eu/fr>
4. The difference between category and topic is not clear. We suggest keeping only one filter that has the general topics and maybe consider implementing a second filter containing subtopics if when the platform is running the users consider it a useful feature. Further, by improving the search, as will be suggested bellow, maybe less filters are needed.

## Search

We did different tests, to analyze how the search is currently implemented. We realized key words are only searched on the title and subtitle. We considered the description of the project should also be considered on the search.

## Database

The existing structure per se, where there is a relational database having a main table summarizing the opened entries (projects) we find ok. We considered however, that some of the filters should be changed, the database structure should also be updated and modified.

Text stored on the DB should not include any html syntax, this should be included on the deployment of the app. Ex: the descriptions include characters like <p>, this type of formatting should be done in the backend (ex. Through Django filters)

## User Interface

From our experience and the interview with the users, the first arrival to the webpage results in an overload from too much information. On the first look it is not clear what one can achieve by searching in Openedu.

# Further development and recommendations

Our

## Data pipeline

<https://miro.com/app/board/uXjVPO_hDiA=/?moveToWidget=3458764536321960898&cot=14>

## DB structure

### Related projects table:

Keeps records of similar projects. As identified using NLP (see Using Data Science to improve website functionality)

This model is created to save the similarities between the project. A JSONField is chosen given the many to many relationship. A new JSON entry will be generated depending on the required time to calculate the similarity between projects. If the performance is good and the calculation time is short, the similarity can ba calculated after each project upload. Otherwise, this calculation should be done on a daily basis or a weekly basis.

## User Interface

### Customer Journey

<https://miro.com/app/board/uXjVPO_hDiA=/?moveToWidget=3458764536719784651&cot=14>

## User Upload

We suggest having on the one hand a user registration form, where basic information about the user should be saved on the DB. This will reduce the amount of information users need to give each time they are uploading a new educational material.

Further, the upload formular should suggest possible categories and entries as the user is making new entries.

## Using Data Science to improve website functionality