



## Tell us what your idea is.

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**Have you ever wondered how an item is made? How it's composed? Or simply pretty informations about it? Ex. What you can say about a simple mouse?**

*My idea is to make a "pokedex-like" recognizer with a phone for everyday item. The Item recognized would be represented in the phone with a 3D model giving a full overview of the object. If supported for the type of object an animation of the exploded model would be provided. Also you can visualize information about the single parts by tapping them or information about the whole (Wiki integration) and fun facts or curiosities about.*

How that would be possible for every object? It would be a community project. The app (a flutter app) would have a section to upload models, informations and other data accessible for everyone.

### USE CASE

Let's back to the mouse example:

Use the phone camera to scan your environment. The phone recognize a mouse on your desk and let you know that, labelling it. If you select the object you can have a preview of the mouse model and a sliding animation with an explode of the parts. Major information provided by Wikipedia (like the evolution in the history) and curiosities about.

### CONTRIBUTION CASE

- After scan, recognize and selecting you can edit the information about the object and add your own details.
- To upload a new model you can pick an object make a bunch of photos from different angle and write down all the information you want.

The app would be developed in flutter with integration of the web where you can only search (not scan) and visualize the objects.

The recognition of the objects would be realized with ML Vision.

A tensor flow model will be trained with all the photos that you provide for a specific object obtaining in output the cleaned 3D model. Once ready, when the model produced is considered enough accurate, the object will be pushed in the dataset with the infos provided, to be recognized by users.



The app would have a fun-learning use in a personal context and also in an educational context.

**Tell us how you plan on bringing it to life.**

## Tell us about you.