Instructions

For the main question, be ready to:
-   Describe the architecture of your solution and its operations.
-   Define all its components and their interactions.
-   Motivate your design decisions.
-   Make diagrams whenever necessary.
-   **State clearly your choices and assumptions.**

Question 1.

To address the recent issues with the voting software, the Belgian government decided to modernize the ancient (magnetic cards) and centralized vote registration system (interesting thread: [1]). The Belgian Government listed the following requirements:

-   only Belgian citizens can vote (no e-id = no vote);
-   the voting process needs to be transparent, i.e., votes should be publicly verifiable;
-   as the law requires that all citizens need to vote, we also need to be able to identify the citizens that did not vote;
-   non-governmental parties should not be able to identify a voter;
-   the voter should be notified when his vote has been verified;
-   Bryzantine citizens should not be able to influence the election;

with the assumption that,

-   a working internet connection is available.

[1] Discussion: https://twitter.com/MisterCh0c/status/1049926988545306624