



BA/SA:

Are You Human?

Prior to an election, many countries around the world face the task of finalizing up-to-date lists of eligible voters. This is done based on records of the population that the country has access to. The country can then be regarded as a central authority which has full information about the population. In practice, such central authorities often fail to produce complete and up to date lists due to for example recent unrecorded changes such as deaths. Such mistakes can open up the possibility to add dummy votes and thus forge the election outcome.

This thesis focuses on a more difficult task - a voting system without central authorities. In this case, there is no authority which has access to the full registration list. Instead, each voter has to prove its eligibility to vote by providing a so called *proof of personhood*. We want to investigate the possibility of constructing such a proof while reducing the number of malicious people who try to vote multiple times. Assuming that the voters do not want to reveal their identity, the goal is to build a system in which malicious voters are not be able to change the true voting outcome. We already have some ideas which can serve as a starting point to your thesis.



Requirements: Creativity and programming experience. Android programming experience is an advantage. The student(s) should be able to work independently!

Interested? Please contact us for more details!

Contacts

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