Fingerprint Voting System

**Project Proposal**

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1. **Introduction**

Election is a very important and critical process for all the governments around the world. However, there is almost no development regarding the elections and how they are made. Whether it is a big country or not they all use a variety of voting systems that involve papers and stamps. For our project, we propose a new and more innovative method to use in governmental elections. This new method allows citizens to vote with their fingerprints without any doubt of election fraud and provides a fair election.

1. **Project Description**
   1. **Overview**

Our software project aims to provide a system that allows citizens to vote by pressing their fingertips to a touch screen. The completed project will have a user interface and a training manual for election workers to help them navigate in the system. The system should be compatible with Windows operating systems.

The main goal is to make the election process faster, easier, and fairer than the ones currently in use. It also reduces the overall waste and offers a more environmental approach.

* 1. **Objectives**

- To provide an equal election.

- Provide an easy use interface for citizens to use in the election period.

- To speed up the process of election and the calculation of the results.

- Making sure every citizen votes only for themselves and once.

- Reduce the waste of paper and other resources that are used to hold a traditional election.

- Optimizing the fingerprint database with the software to store the corresponding results for later calculation.

- Minimizing the number of invalid votes by not allowing users to vote for different options simultaneously

* 1. **Target Customers**
* Governments: The system allows users to vote with their fingerprints, so that the results remain unadulterated. This level of security is only required when it comes to governmental matters. Therefore, the target customers of our software are all the governments around the world which embraces democratic practices to decide on governmental matters.
  1. **Value Proposition**

Our software fills the need of a certainly genuine and fraud free election so that both the citizens and the government of the country can be assured of a fair competition. It speeds up the process of election which usually takes a lot of time according to the population of the country. In addition to that, this software also helps speed up the calculation of the results since the data is already stored in the system. Another important contribution of our software to business is its environmental aspect since it promises to reduce the waste of paper and many other resources.

1. **Preliminary Plan**
   1. **Planned Deliverables**

At the end of the project, we aim to provide users a secure and innovative voting system. This system will come with an easy to use interface for users to interact with. Also, there will also be a user manual documentation for the election workers to study to better understand how the system works. There will not be any prototypes or increments.

* 1. **Working Plan**

It is a governmental project. Requirements are very clear and certain. The Waterfall model is the most suited model for this project. Our development team will have to be precise and work according to a scheduled plan in order to successfully complete the system. First, we will define the requirements with the customers in great detail. Then with our team we will design the software on paper and start implementing it. When the implementation tasks are done, we will check for verification. If the product is what the customer needs, as a last step, we will provide the documentation of the project for future maintenance.

This project will have a specific deadline. The software system should be up and running according to the requirements of the customer at the end of the customers’ time limit for this project. Therefore, the planning should be done very carefully and in advance.

The team will have regular meetings after every step of the project is done. We will also come together at the end of the project to evaluate the process and discuss how we can make it better and more effective.

The project will use government database for citizen ID records and fingerprints. Integrating our software system with this database and capabilities of the government we will put out an innovative and practical voting system for many people to use.

The milestones of this project will be the phases that was defined above. Every step of this project will be done one after the other using the previous steps outcomes as the basis.