**REQUIREMENTS**

## **Functional Requirements:**

* Software Requirements:

Code blocks 20.3

Operating system - windows

* Candidates data should be managed in a file.
* Transparency:

Voters should be able to possess a general knowledge and understanding of the voting process.

* Accuracy:

The system shall record and count all the votes correctly.

* No voter should be able to vote more than once.
* The voter shall be prevented from choosing more than one candidate.
* Cost-effectiveness:

Election systems should be affordable and efficient.

## **Non-functional Requirements:**

The non-functional requirements of this application are usability, availability and reliability.

* Usability:

Usability refers to how easily people relate to an application. The application should be easy to understand, to use and should be implemented in a way that will limit user errors which may result from unintentional manipulation of the data. The application should provide information on the basic functionalities and what the application is about. Furthermore, the application should be familiar to the user and must not require a lot of computer expertise to use it.

* Availability:

The user must be able to control the application to the best of their ability. Given the time voting is open and when it closes, the user can choose to vote within that set time without having wait for their free period like the earlier system encourages.

* Reliability:

The data entered by a user must be promptly and correctly stored in the database. This must be able to recover from hardware failure.

* Performance:

Response time of e-vote should be less than 5 second most of the time.