Team Name: **SMIRJ**

Key Tools/Technologies:

- Visual Studio 2019 will be used as the IDE to write the source code for the application.
    - This is because extensions such as Qt or Windows Presentation Foundation will be very helpful for designing a GUI and a framework for our voting platform application. We will be using C++ and C# as the language of choice when developing the application.
- Qt (or Windows Presentation Foundation) will be used for the framework and UI components.
    - Qt (or possibly WPF) will be used as an application and an extension inside of Visual Studio 2019 to create the GUI/UI for the user. It will also be used to create the framework for our application design. It will also be useful for deploying our application. More importantly, it allows for making our application cross platform.
- SQL for creating our database.
    - SQL will be very important for us to create and manage a relational database management system. It creates a collection of highly structured tables, where each row reflects a data entity, and every column defines an information field. It will be crucial for storing, updating, and retrieving voting information and voter's information.
- ASP.NET for the backend using C#.
    - We will be using ASP.NET for creating and working on the backend of our application. It will allow us to create a free web platform for our secure voting application. This will most likely be used to create a Web API for the application.
- GitHub for pushing and deploying different builds of the application
    - GitHub will be used so that our group can keep track of the versions of our application and have an external source to keep our project in. GitHub will also be used to let the TA and the professor keep track of the current state of our project's development.
- Microsoft Word for creating Milestone updates and provide documentation for the user.
    - We can use Microsoft Word to write key information for the user regarding how to use the application to securely vote in an election, for bills, or otherwise. Microsoft Word also has hundreds of useful features and is just one of many like it. The ease of access to Microsoft Word is the main reason we chose it over other options.