**Project 2 Report**

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**Program description:**

Implement a secure election protocol with two central facilities CLA Central Legitimization Agency and CTF Central Tabulating Facility. Using asymmetric-key cryptosystem RSA we create a secure way for people to vote electronically. The CLA’s main function is to certify and issue validation numbers to voters. The CTF will takes the voters vote and validation number and counts the voters vote and publishes records when finished.

Our development enviornments differed:

Eclipse and Intellij for Jay and Intellij for Daniel, but we uploaded to github here is the link:

<https://github.com/dster05/SecureVoting>

How to run the program:

1. Run CLA.java first
2. Run CTF.java second
3. Run Voter.java last
4. Voter will connect to CLA
   1. Choose option 1 to get validation number and register
5. Information is processed and validation is issued
   1. the voter is added to a list along with validation number
   2. All information is encrypted and Decrypted
   3. Then sent to CTR
6. Voter then proceeds to cast vote and with CTF
   1. CTF records vote and adds it to tally for Candidate
   2. CTF will then publish the results when voting has ended

***Screenshots:***

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***Contribution to project is :***

***Jay 55%***

***Daniel 45%***