

HSM project

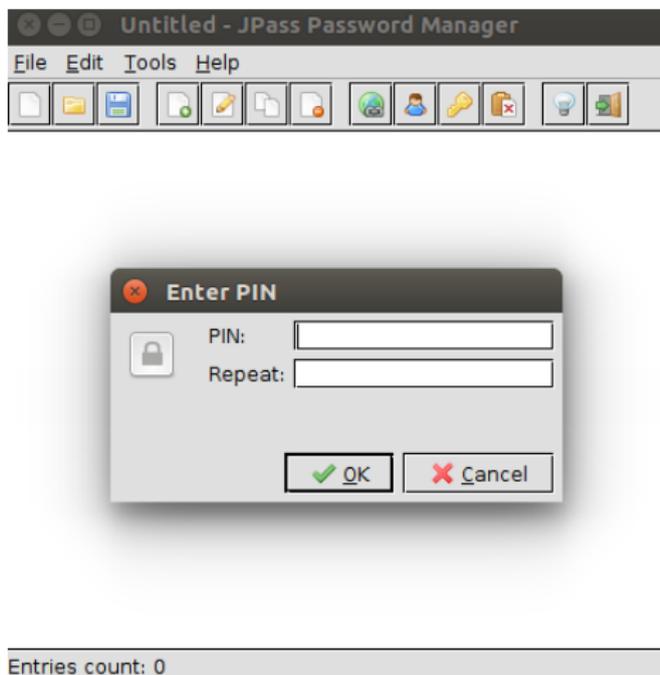
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Design — previous design

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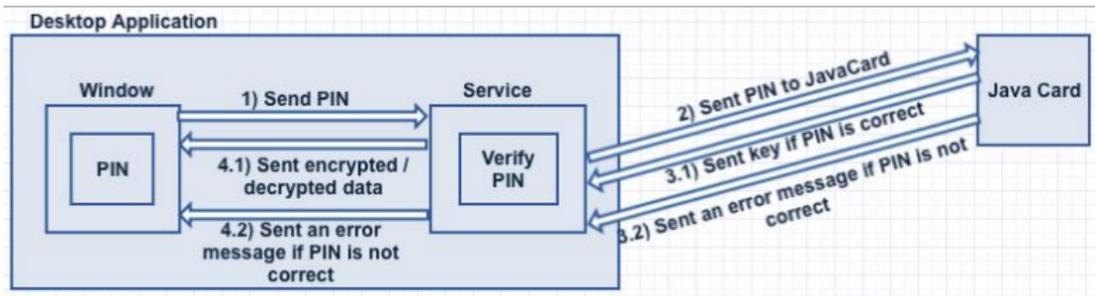


- Based on JPass project.
- The user set a 4 digit PIN instead of a password.
- JavaCard verify if the PIN is correct, if yes the encryption key is sent to PasswordSafe Application to perform the Encryption / Decryption, else the user can set at maximum 5 Wrong PIN.
- If the user exceed the limits, he is asked for a secret that he has already saved in a safe location. If the user fail to set this secret the JavaCard is blocked.

Design — new design

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- Communication between the Desktop application and the JavaCard is using secure Channel (GP API).
- AES key is used to encrypt data.
- Automata based programing.