

程序代写代做 CS编程辅导

INFC0036 Project: Security Part



1 Security Part

Design and implement a secure end to end messaging tool.

Basic exemplary flow:

1. In a page, user A logs in, typing username, pwd
2. If successfully log in, showing friend list, could contain just one; if log in fail, show failure reason.
3. After both A,B log in (in two pages, assuming they are “friends” in the chat), A sends a message (the personalized testing message will be notified before the deadline) to B securely, showing at B’s side.

Template. We have provided a website template so that you can run a server and show corresponding sites with the prepared the html pages. While the control functions are located at the corresponding Python files. You can just modify and add function in corresponding Python files. You may want extra package to use advanced libraries.

Examine criteria:

1. Properly store passwords on the server — 15 points
2. When log in, first check server’s certificate (e.g., you can manually create one using a hardcoded CA public key in your code) — 25 points
3. Securely transmitting a pwd to server (leveraging secure protocols or design the secure transmission properly) — 10 points
4. Properly check whether password is correct (at least use the simple method that defends against offline pre-computation attacks) — 10 points
5. Securely transmitting the message from A to B, even the server who can forward communication transcript cannot read the message, or modify the ciphertext (leveraging secure protocols or design the authenticated secure transmission properly) — 40 points

Reporting requirement.

1. Explain how you address each of above items
2. Attach screenshots as evidence

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3. Clearly identify how group members divide the tasks
4. No explicit word requirement

Submission deadline
due on Saturday mid
Demonstrators/tutors.

Remark 1: The template
using other language,
security features listed



port about the security part (and corresponding code) will be
an report, you are required to give demonstration to your
s 50% and demonstration contributes 50%.

at an example, if you prefer to do it in other framework, or
sure you can demonstrate that you properly implement the

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