

Project 2

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EIT060 Computer Security

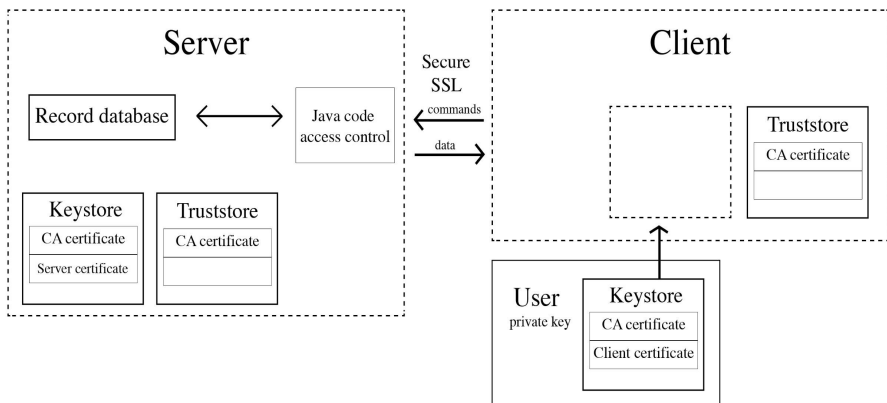
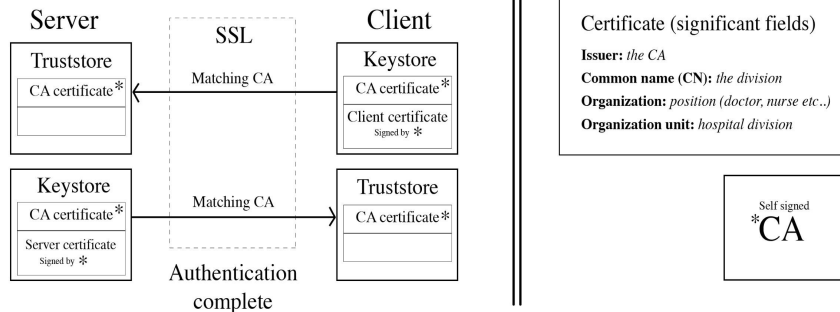
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Agenda

- Login functionality
- Live demonstration
- Password handling

Login functionality

Authentication (with keystores)



```
X509Certificate cert = (X509Certificate) session.getPeerCertificateChain()[0];
String subject = cert.getSubjectDN().getName();
System.out.println("Subject = " + subject);
```

```
String name = subject.substring(3, subject.indexOf(","));
subject = subject.substring(subject.indexOf("OU=") + 3);
String hospitalDivision = subject.substring(0, subject.indexOf(","));
subject = subject.substring(subject.indexOf("O=") + 2);
String occupation = subject.substring(0, subject.indexOf(","));
```

```
String clientMsg = null;
while ((clientMsg = in.readLine()) != null) {
    System.out.println("CLIENTMESSAGE IS: " + clientMsg);
    User user = null;
    switch (occupation.toLowerCase()) {
        case "doctor":
            user = new Doctor(database, name, hospitalDivision, log, firstTimeCreateLog);
            break;
        case "nurse":
            user = new Nurse(database, name, hospitalDivision, log, firstTimeCreateLog);
            break;
        case "patient":
            user = new Patient(database, name, log, firstTimeCreateLog);
            break;
        case "government":
            user = new Government(database, name, log, firstTimeCreateLog);
            break;
    }
}
```

Live Demonstration



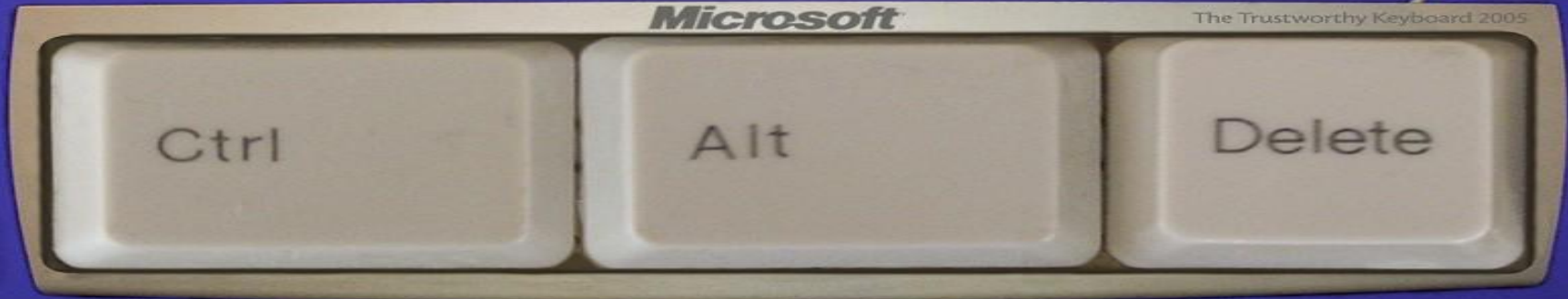
Password handling

- Keystore protection
- Brute force

Frågor?

Bill Gates:

"We decided to stick to the one thing
that's really trustworthy in Windows"



The Trustworthy Keyboard

The next generation keyboards produced by **Microsoft**

FreakingNews.com