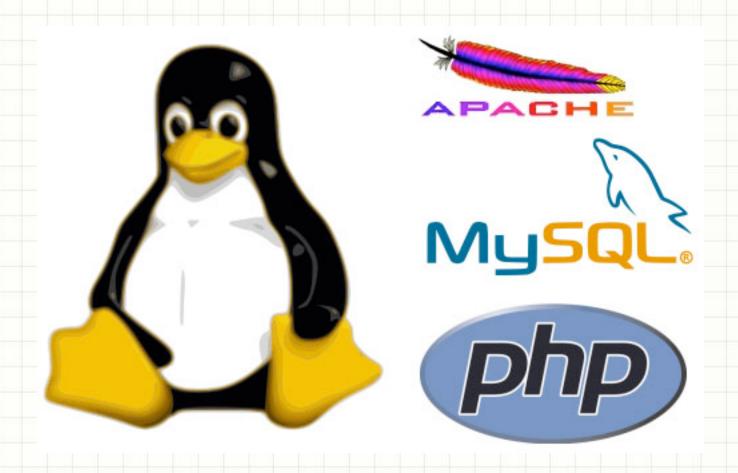


DATA STORAGE

Université Nice Sophia Antipolis



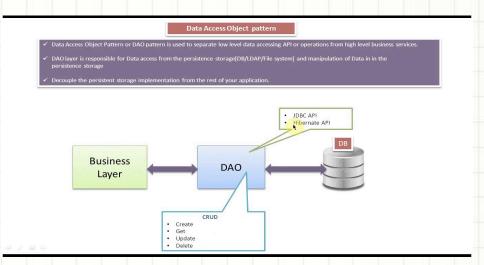
Typical student app



Databases

- Do you need one?
- Who accesses it?
 - Your users and the DB is handling concurrency
 - Your app and the DB is its own tier, slave of a real model
- SQL vs. non-SQL
- O/R mapping, DAO





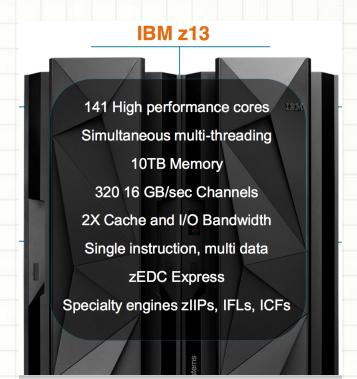
Database and big data

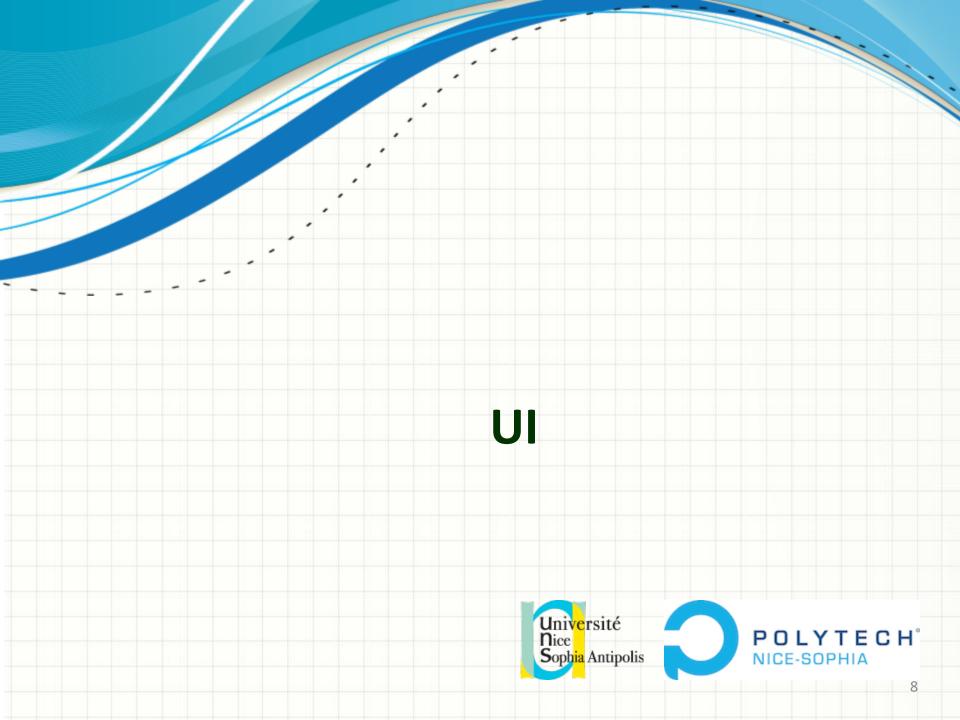
- DB handles large volume well
- Details in January

Other places to store data

- Files
- XML streams (XPath, XQuery, XML DBs)
- Distributed
 - Eg: in client!
 - Even in your device

In memory!

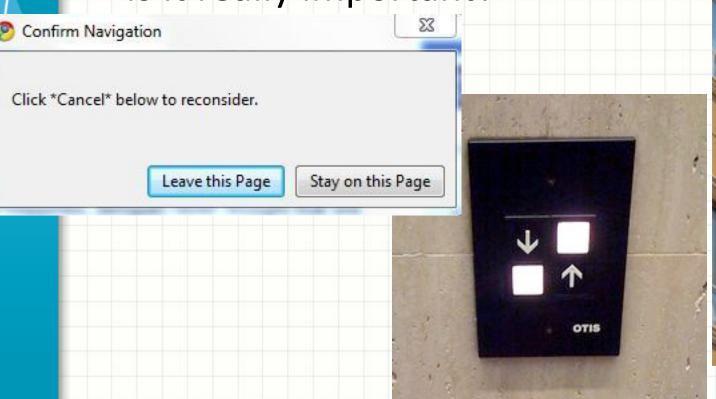




Why UI?

Why tackle UI in an architecture class?

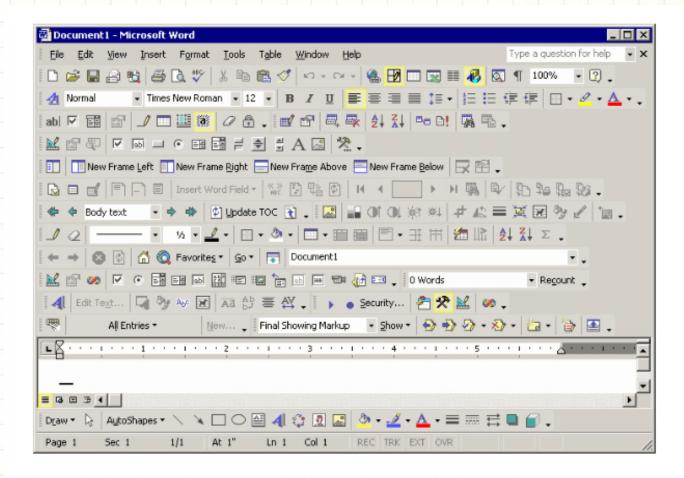
Is it really important?





Choose the right UI type

Fat client



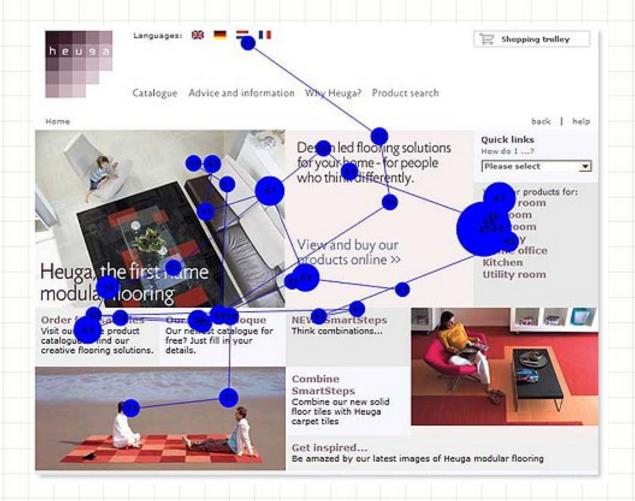
Choose the right UI type

- Thin client
- Mobile
- Device





Eye tracking



REMOTE INVOCATION





How to invoke code running somewhere else?

- "somewhere else" =
 - Distant
 - Local, but in another process
- RPC
- Events
- Messages
- Web Services
- REST API

Things to consider

- Synchronous / async
 - What does the caller do in the meantime?
 - How does it know the call failed?
- Message size
- Marshalling / unmarshalling → coupling

Batch processing

