

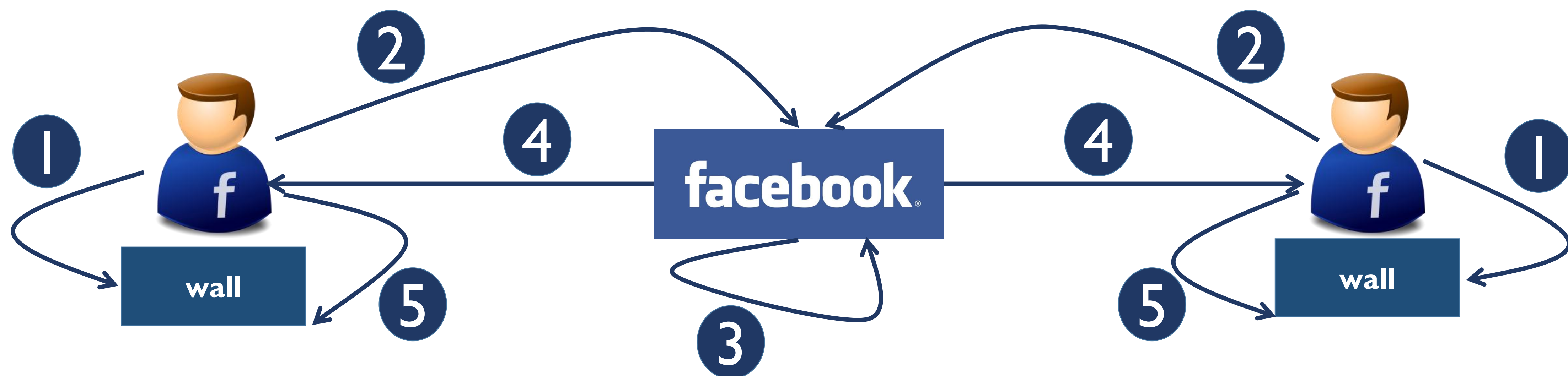
Sunny: Synthesis of Interactive, Cloud-Based Heterogeneous Software Systems

students: **Aleksandar Milicevic** (MIT) and **Milos Gligoric** (UIUC)

recommenders: **Daniel Jackson** (MIT) and **Darko Marinov** (UIUC)

Consider implementing Facebook wall

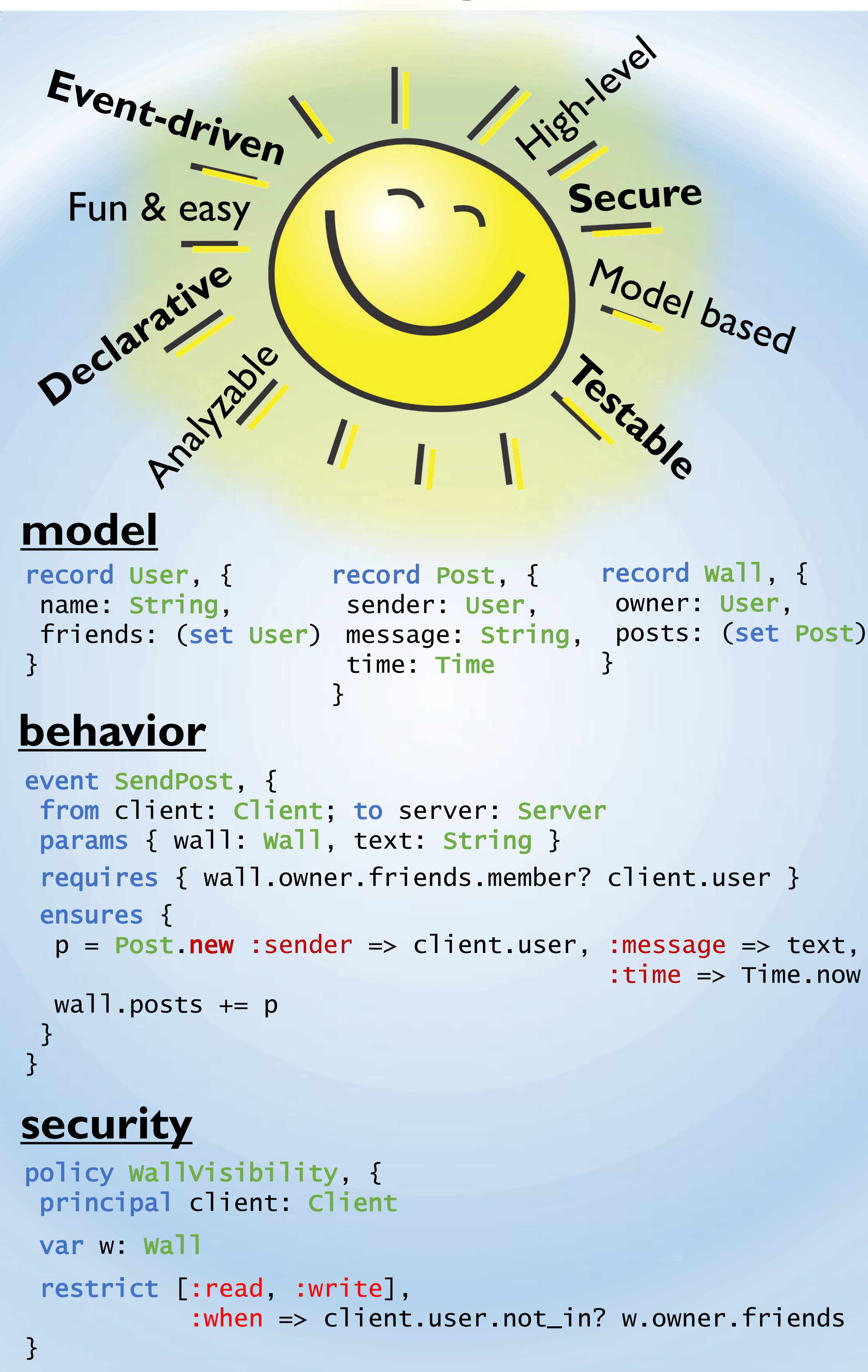
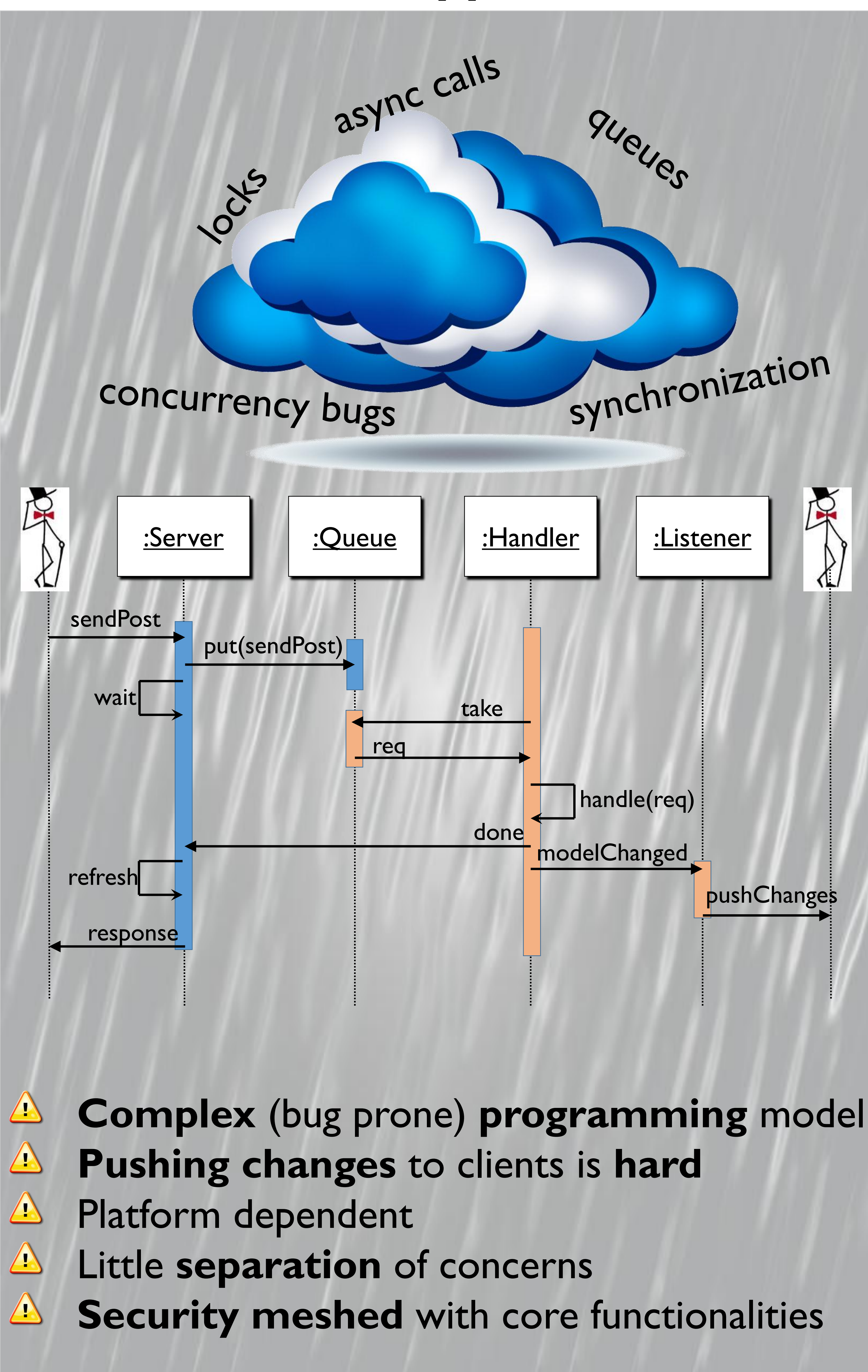
1. Post on wall
2. Send update
3. Synchronize
4. Propagate
5. Update view



Current approaches

vs.

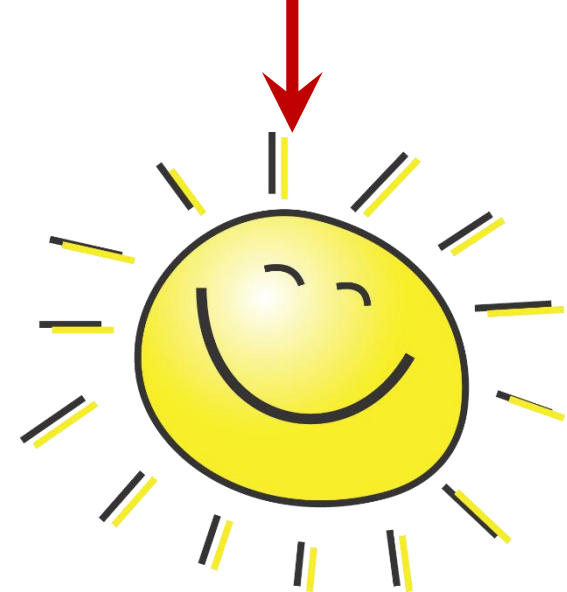
Sunny



Innovation and benefits

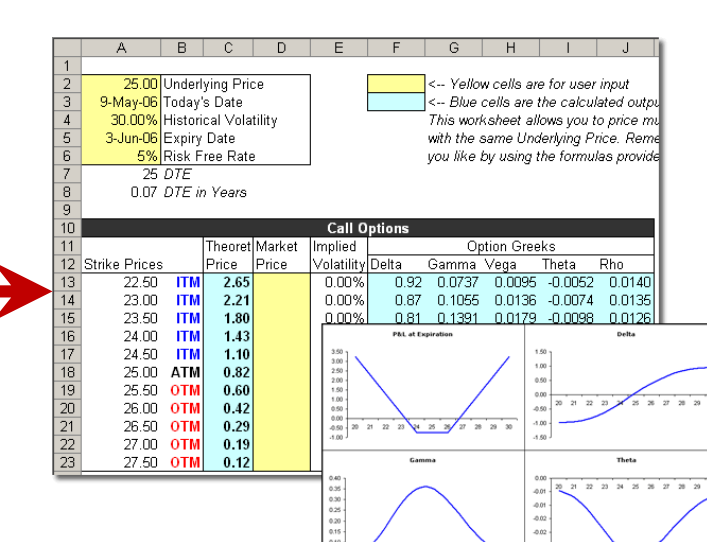
- Generic platform for programming a whole class of event-driven system

cloud-based event-driven apps



similar to

spreadsheets



cms



- Rich platform for industry
 - speeds up development and eliminates a whole class of concurrency bugs by construction
- Application in the cyber-security domain
 - security policies defined independently and formally checked