

# Computer Networks and Distributed Systems

## Exercise Sheet 4

### Exercise 4.1

- a) Describe persistent / non-persistent HTTP with and without pipelining. Discuss advantages and disadvantages!
- b) Consider an e-commerce site, that wants to track the activity of its users. Describe how this can be realized using cookies.

**Exercise 4.2** Describe the Java classes `Socket` and `ServerSocket` with focus on the functions `(Server-)Socket.bind()`, `(Server-)Socket.close()`, `Socket.connect()`, `ServerSocket.accept()`. Give brief code examples to explain their usage.

Hint: Use the Java API.

### Exercise 4.3

What is the difference between P2P nets and client-server architectures? Give four examples for P2P systems.