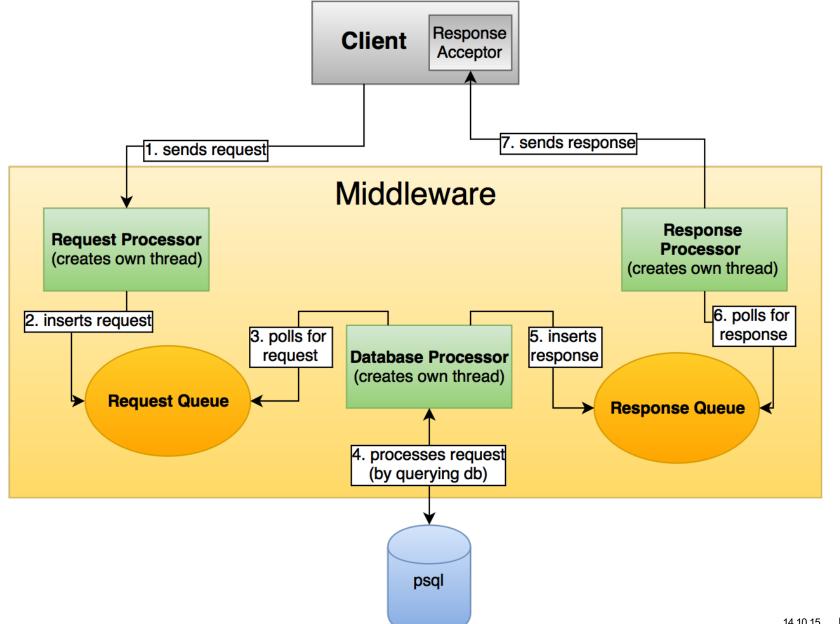




Advanced Systems Lab System Architecture

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Remarks

- Client has an own thread with a ServerSocket to be able to accept responses anytime
- Client disconnects from Middleware as soon as a request is sent
- Client only sends next request after receiving a response (callback), Middleware always has to respond
- Client has to register first, in order to get an ID (but will be assigned the same ID if he reregisters)
- Middleware is consists of 3 main threads (processors), that are hold an own thread pool of "workers"



Database

- Client: ID, IP Address, Port
- Queue: ID
- Message: ID, sender ID, receiver ID, queue ID, content, timestamp
- IDs are foreign keys (to make sure a valid ID is inserted)
- IP & Port needed to allow Client to reregister
- Connection pool at Database Processor



Communication

- Strings
- Start with "Codes" (for any kind of request/response/error)
- Comma separated
- Parsed accordingly by Client and Middleware

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Thank you for your attention.