РАЗВОЈ СОФТВЕРА 2

Команде и упити



Command-Query Separation

Command

Does something

Should modify state

Should not return a value



Command-Query Separation

Command

Does something

Should modify state

Should not return a value

Query

Answers a question

Should not modify state

Always returns a value



Command-Query Separation

Command

Does something

Should modify state

Should not return a value (ideally)

Query

Answers a question

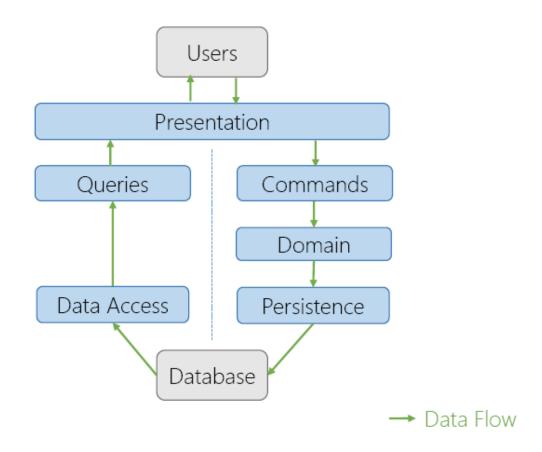
Should not modify state

Always returns a value

Avoid mixing the two!

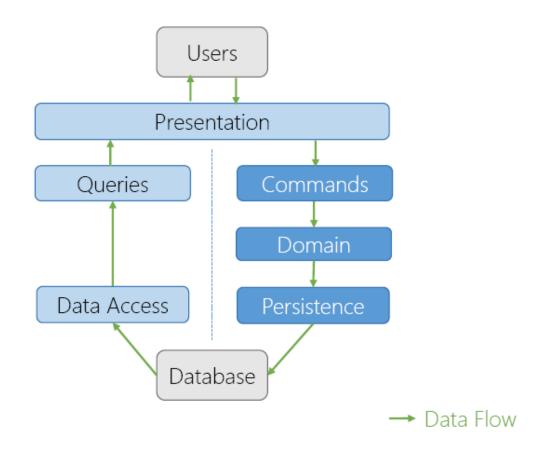


CQRS Architectures



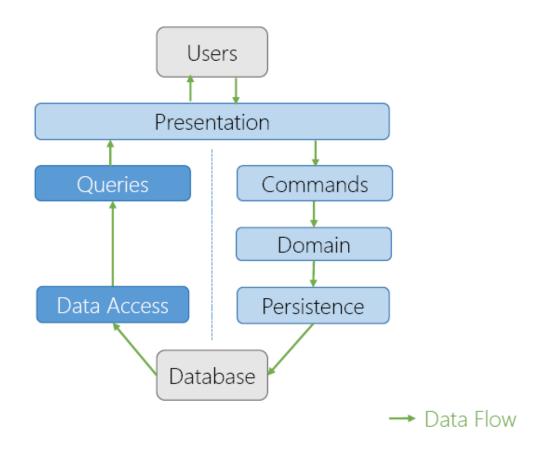


CQRS Architectures





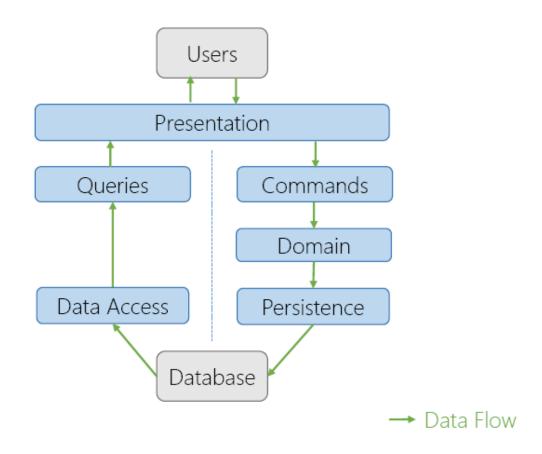
CQRS Architectures





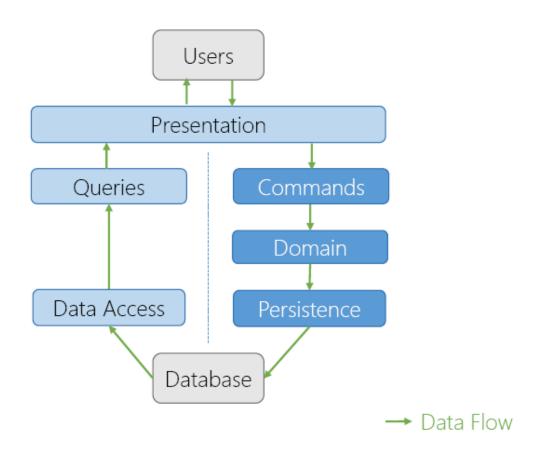


CQRS Type 1 – Single Database



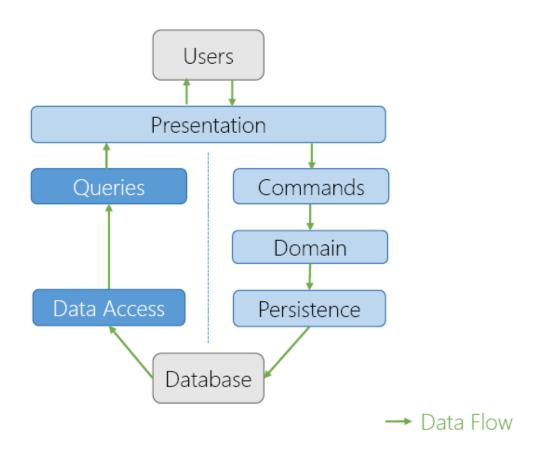


CQRS Type 1 – Single Database

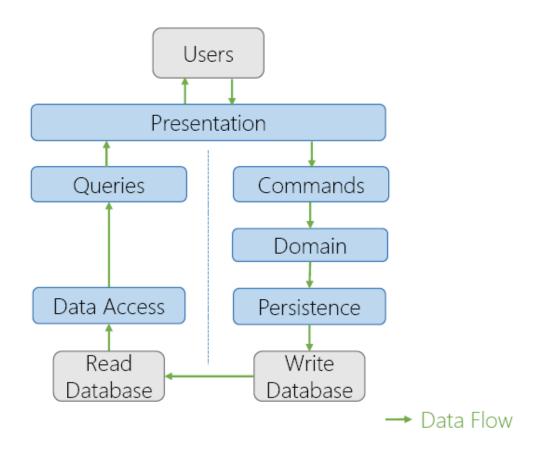




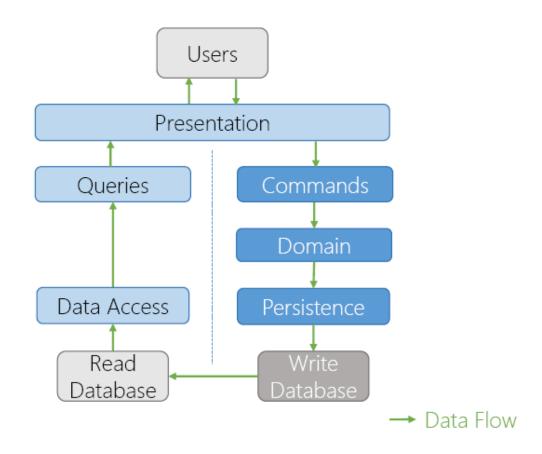
CQRS Type 1 – Single Database



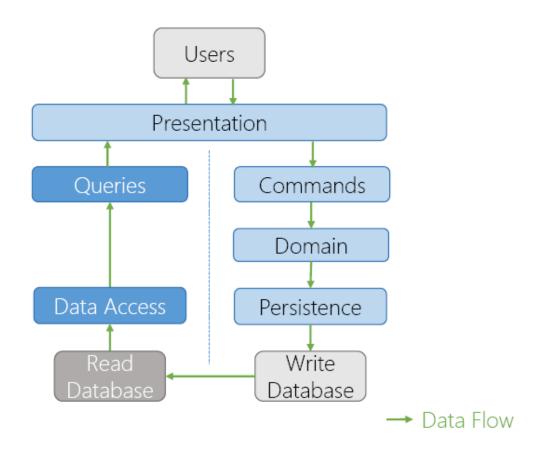




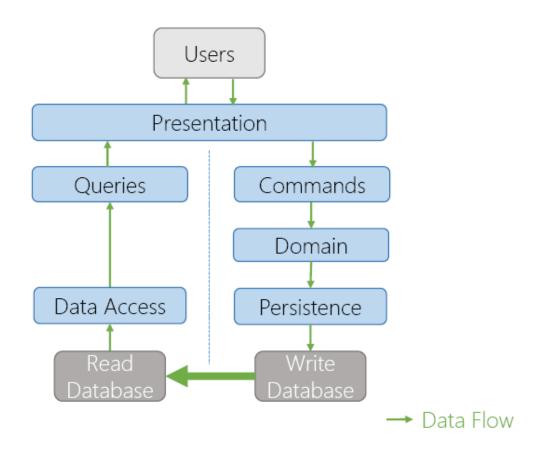




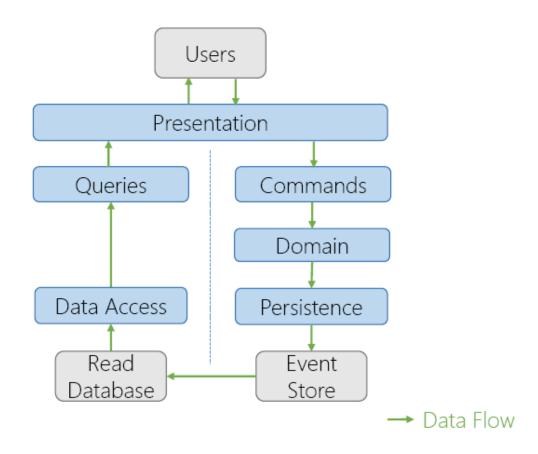




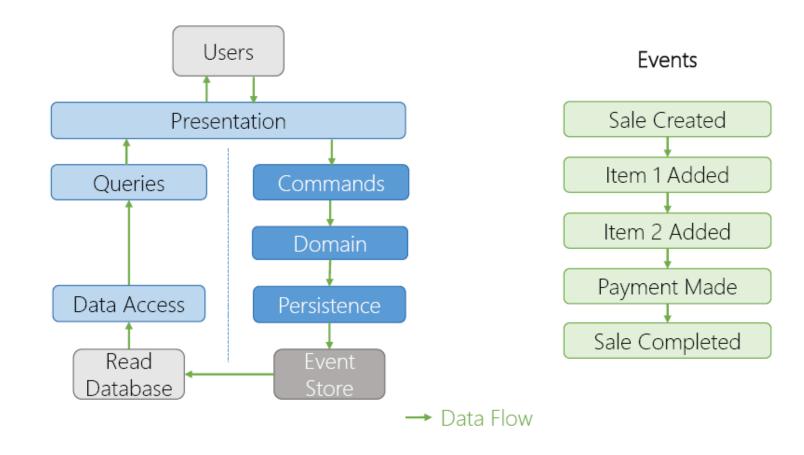




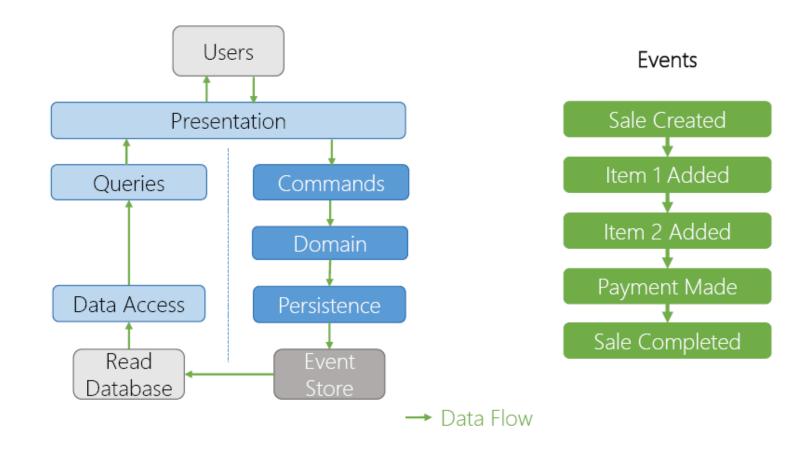




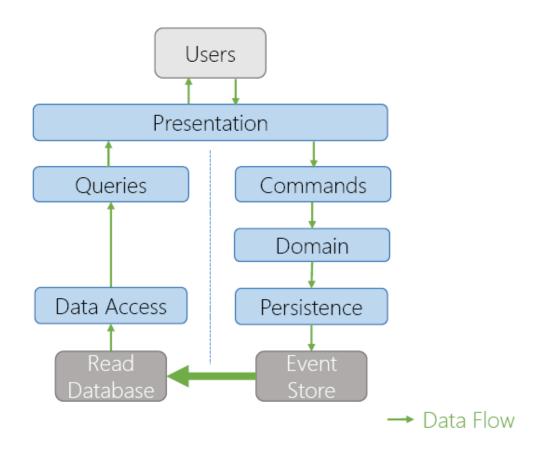






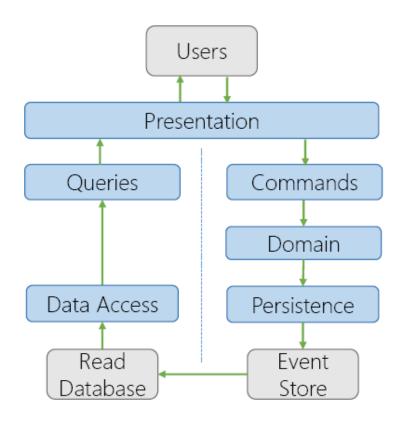








Complete audit trail
Point-in-time reconstruction
Replay events
Rebuild production database







Why Use CQRS?

Pros

More efficient design Simpler within each stack Optimized performance



Why Use CQRS?

Pros

More efficient design Simpler within each stack Optimized performance

Cons

Inconsistent across stacks
Type 2 is more complex
Type 3 might be overkill

