CLONES:

All the Application Servers should have

→ Same version of code

→ Store sessions and user-specific information
in an external Centralized Database / Persistent Cache.

CACHING:

→ Cache queries

→ What if some data changes?
Which all queries to be removed from
cache?

→ Query changes slightly?

→ Cache objects   PREFERRED

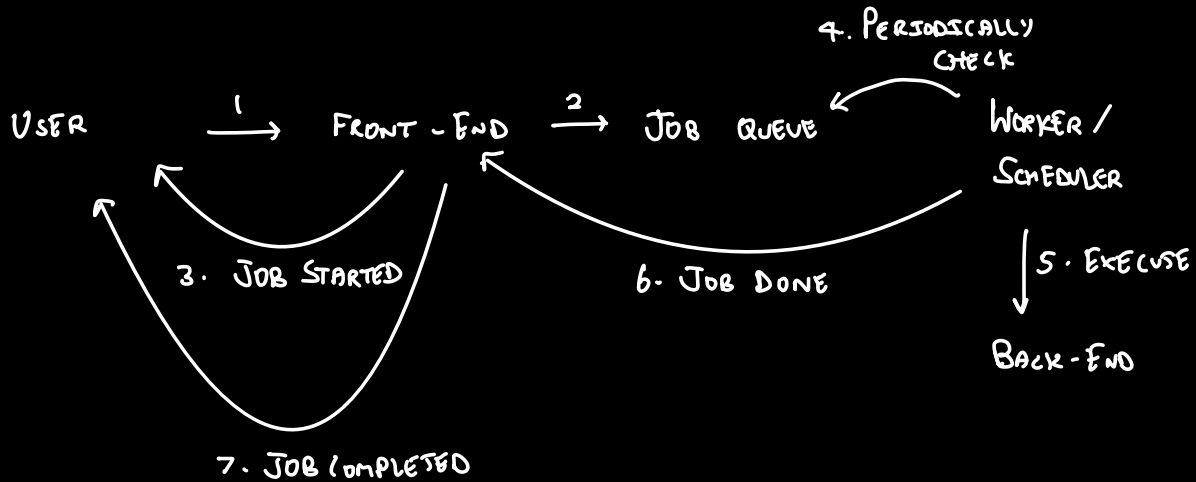→ Query DB → Store in class objects.

→ Cache these objects!

OPTIONS:

→ memcached
→ Redis Cache.

ASYNCHRONISM:

→ Do compute-intensive tasks (expected) before itself and store results.

→ Unexpected task

```
                                            4. PERIODICALLY
                                                 CHECK
USER          1                          2                    WORKER /
    ────────────→   FRONT - END   ───────→  JOB  QUEUE  ←──────  SCHEDULER
                                                                │
            3.  JOB STARTED         6. JOB DONE                 │ 5. EXECUTE
                                                                ↓
                                                            BACK - END
       7. JOB COMPLETED
```

6 → Either poll the results / send signal.