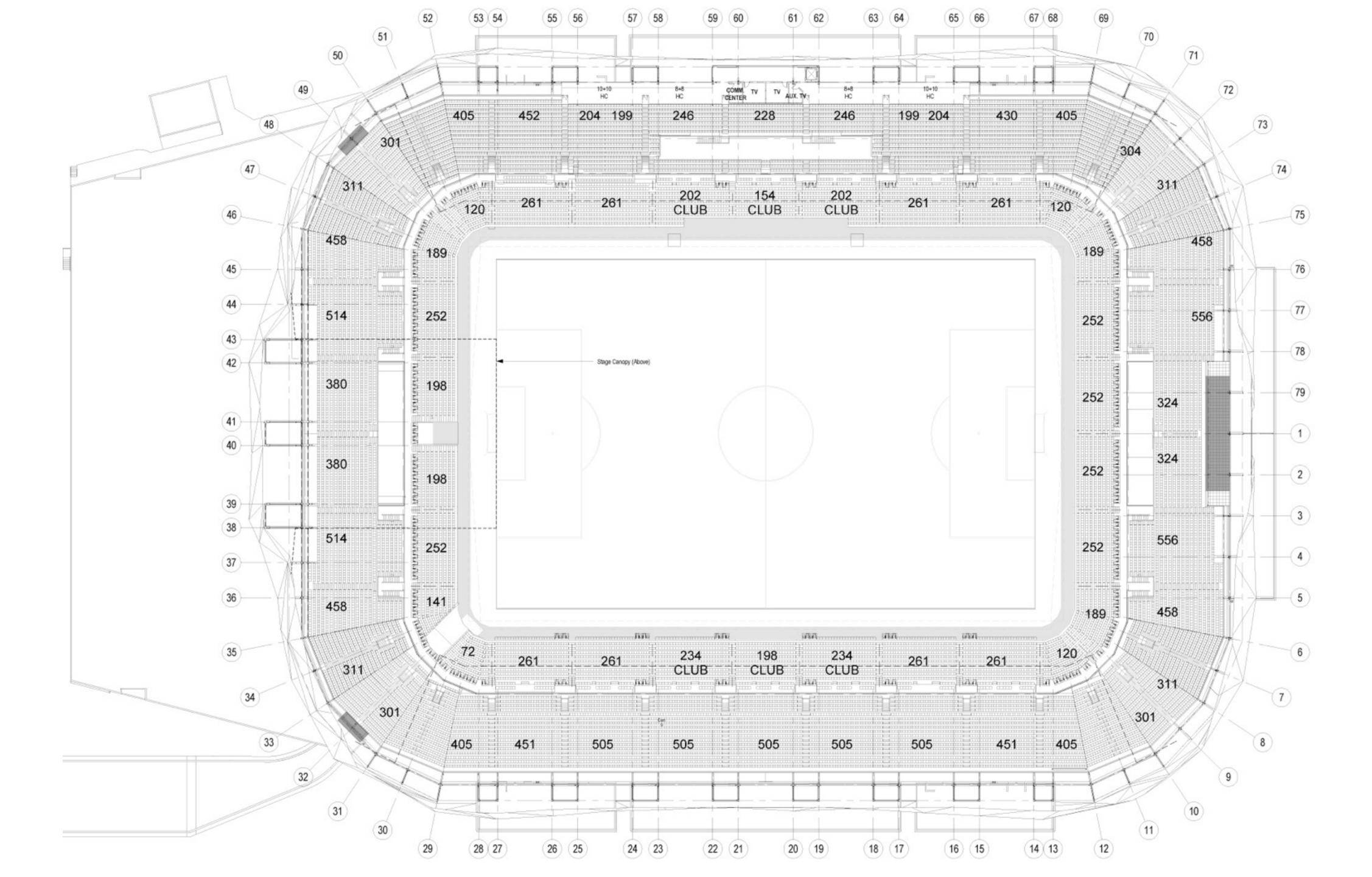
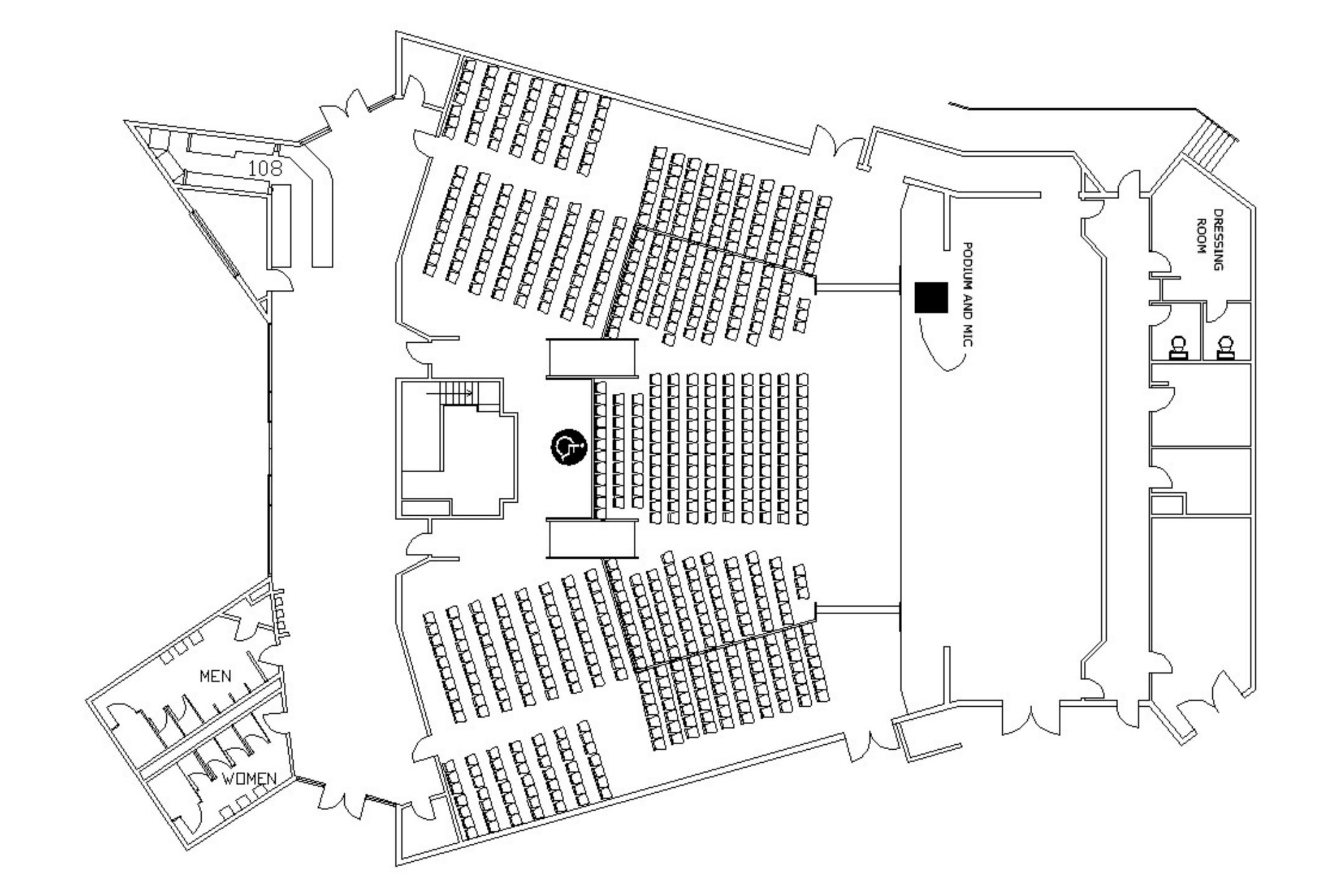
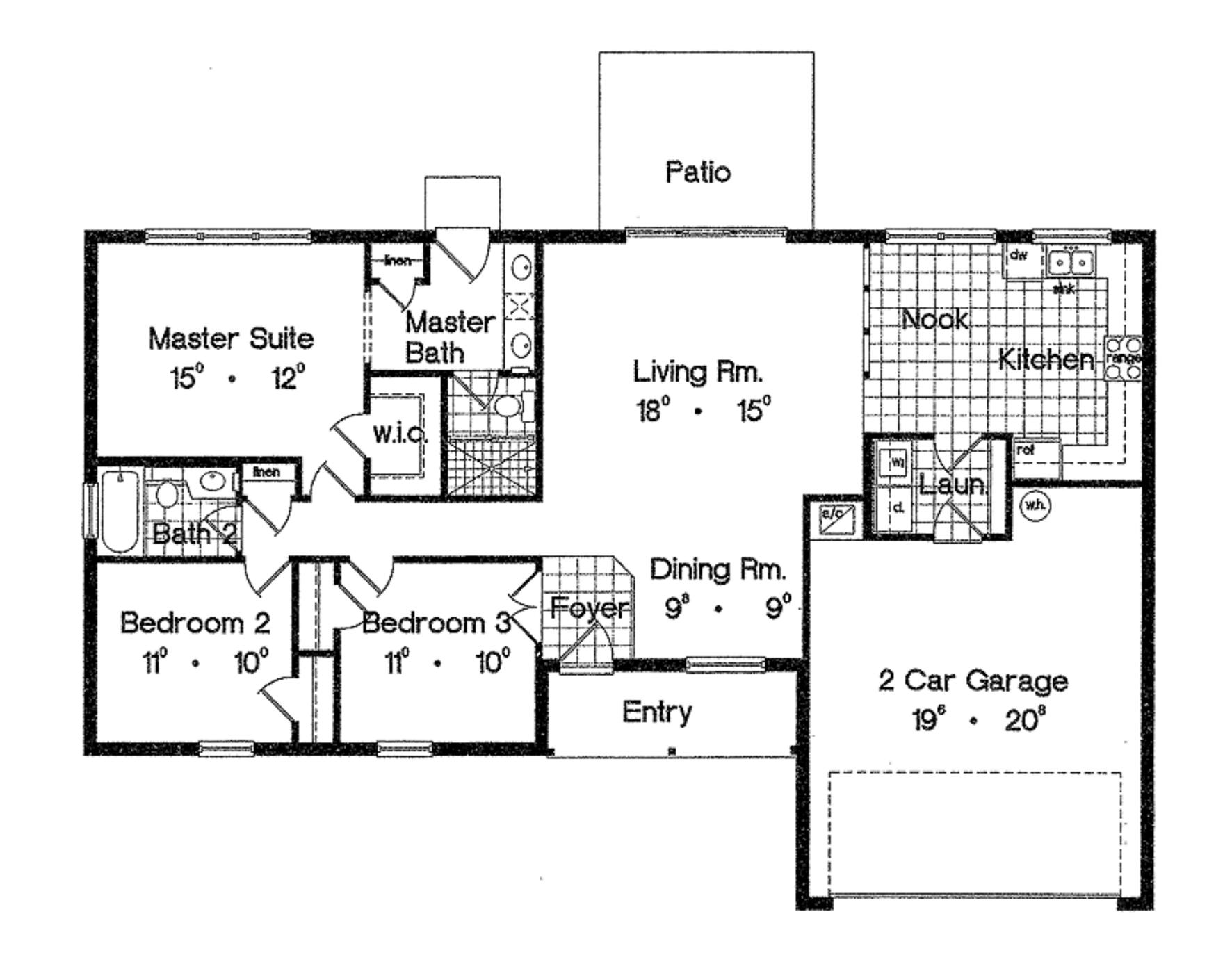
Lecture 2

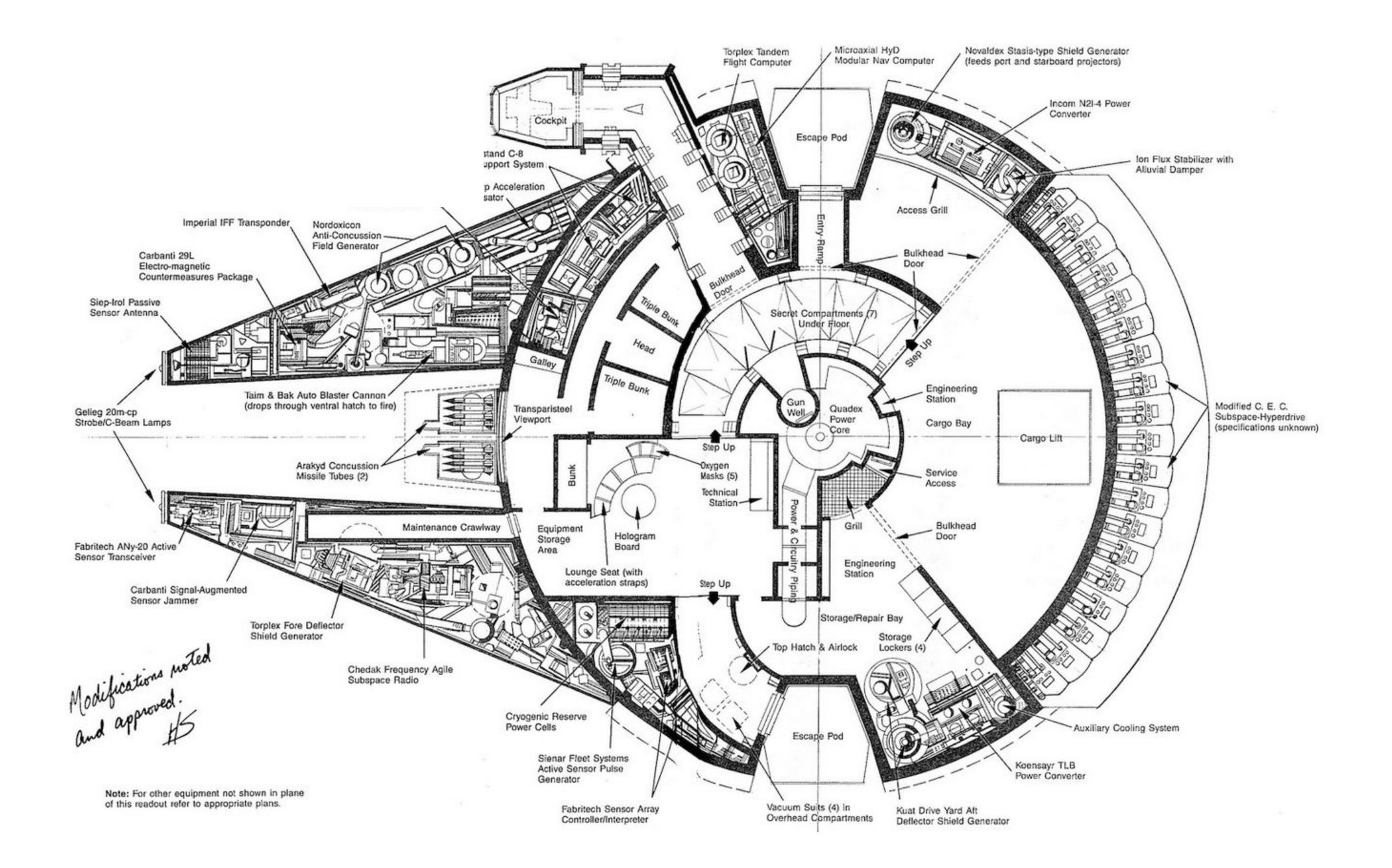
CSCI 6907.12 - Full Stack Application Engineering

Why do you need architecture?









Why do you need architecture?

- It's a way of communication
- You are not alone
- Things change
- Overhead of architecture gives your efficiency in the long wrong

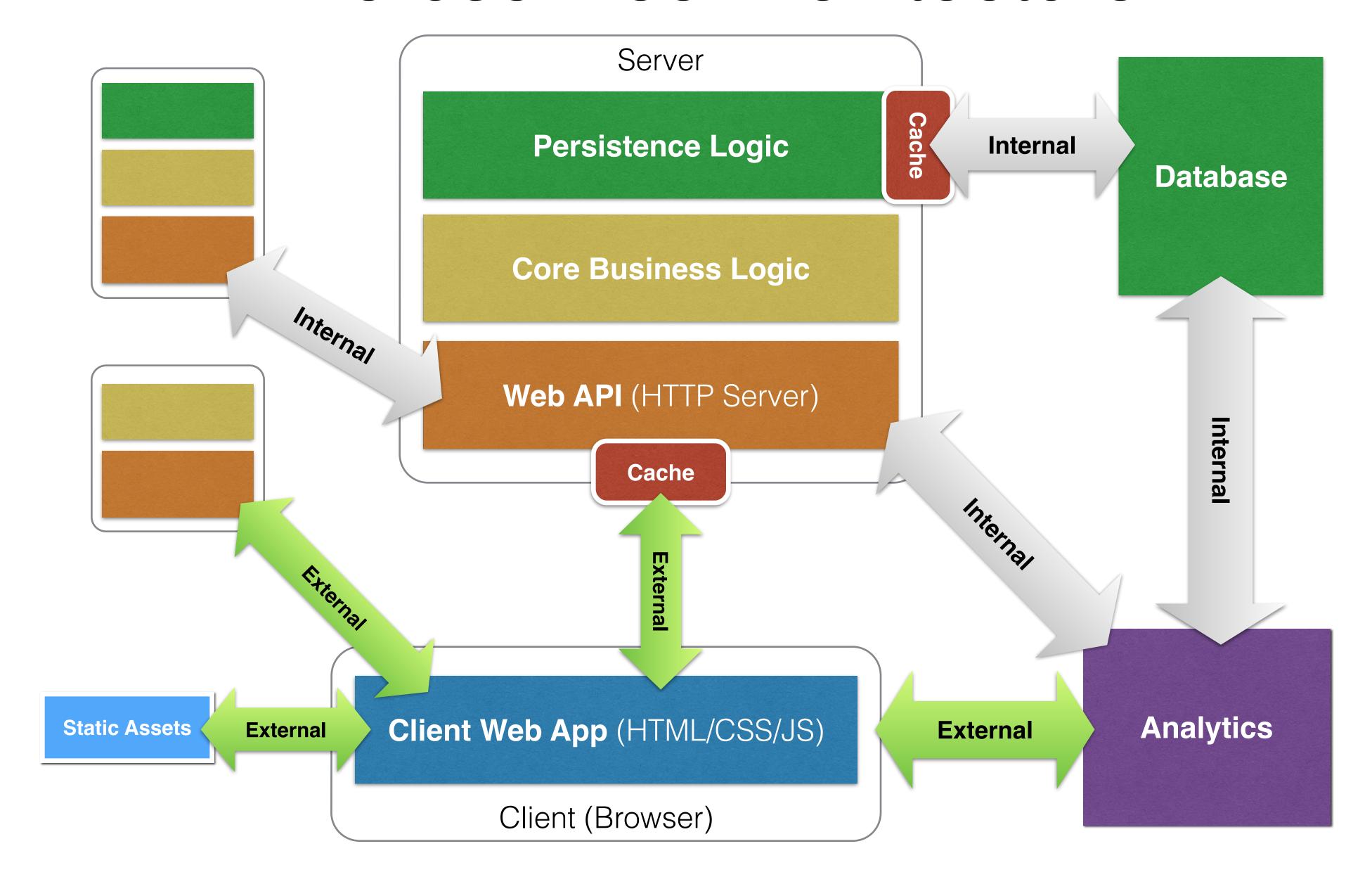
Web Scale!

Scalability means too many things to too many people

Things Change!

- Users Change
- Business Requirements Change
- Laws Change
- Technology Change
- Developers Change
- You Change

Microservice Architecture



Core Business Logic

- Brain of the application
- All computation needed to carry out the application show live here
- Should NOT contain any code regarding persistence or web
- It should be pure logic/computation
- Provides internal interface to other components

But why?

- You want your core logic to be independent of other peripheral technology as much as possible
 - Separation of concern is a good thing
 - Simple is better than complex
 - Allows changes
 - Allows testable code

Write the Test FIRST!

Side-effect free functions

Do one thing and one thing well

Avoid Booleans if possible

Restrict your data domain

DateMe.com

- Dating website where users can post their profiles
- Based on profiles, matches are made
- Recommendations are provided