## **Architecture**

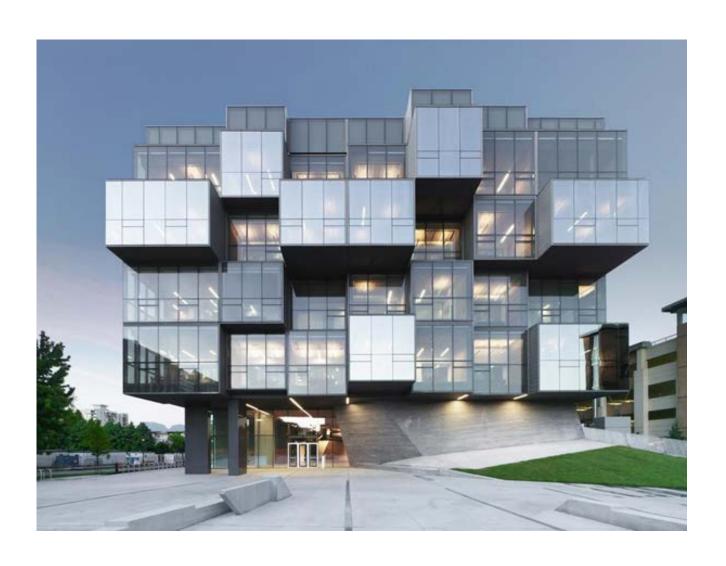
Bryan Hansen

twitter: bh5k

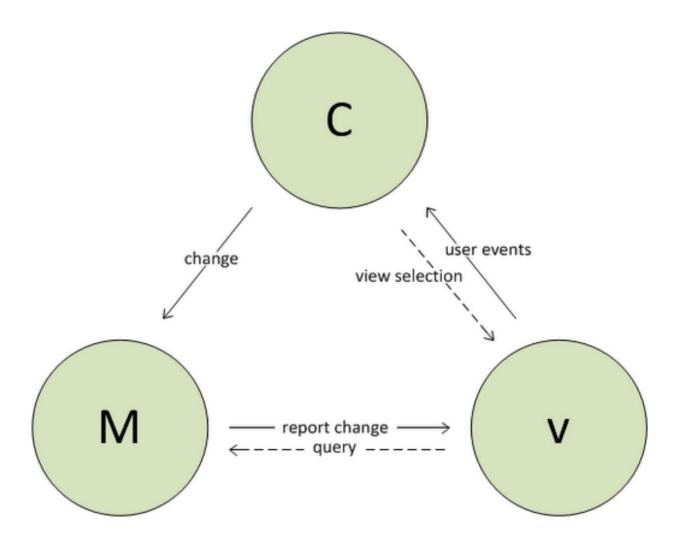
http://www.linkedin.com/in/hansenbryan



## **Architecture**

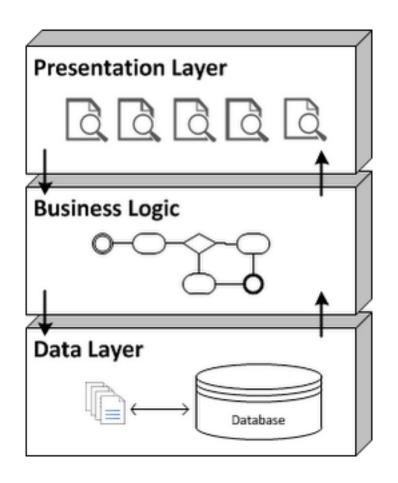


## MVC

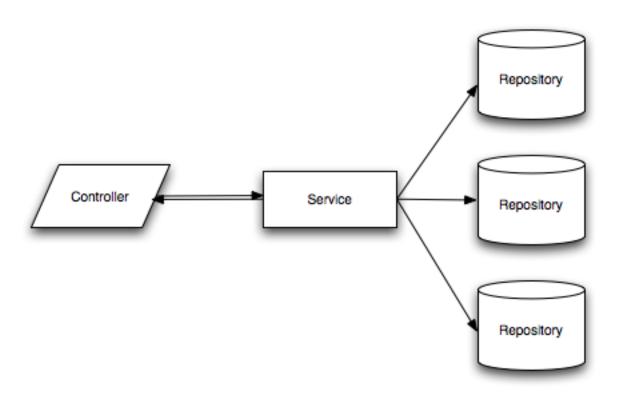


### **Tiered Architectures**

- Separation of concerns
- Reusable layers
- Maintenance



# **Components**



#### Controller

- Handles incoming requests and building the response
- Business logic should not be handled here
- Works with the Service and Repository tier for business logic and data gathering
- Annotated with @Controller
- Handles Exceptions and routes the view accordingly



#### Service

- Annotated with @Service
- The Service tier describes the verbs (actions) of a system
- Where the business logic resides
- Ensures that the business object is in a valid state
- Where transactions often begin (two phase commits)
- Often has the same methods as the Repository, but different focus



### Repository

- Where we interact with JPA
- Annotated with @Repository
- The Repository tier describes the nouns (data) of a system
- Focused on persisting and interacting with the database
- One-to-one mapping with an Object
- Often a one-to-one mapping with a database table



# **Summary**

Software Architecture



N-Tier

Components

Controller

Service

Repository

