

# Class Notes

Friday, April 24, 2015 3:21 PM

## Understanding Portfolio:

- ✱ Used to assess your level of fluency
  - Technology Topics
  - UML Diagrams
  - Examples of Professionalism
- ✱ You Provide Direct Evidence to me

## Hibernate:

1. The Singleton Pattern
2. The Proxy Pattern
3. The Factory Pattern
4. HQL
5. Many To Many definition
6. Many To Many example and diagrams
7. Full Hibernate annotations declaration and description
8. Many-To-One and One-To-Many Relationships
9. Bi-directional One-ToMany Relationships

UML

- Class
- Sequence
- State
- Use case

## How to use git:

- git add

- `git commit -m "This is my first commit"`
- `git push`

hashmaps map keys to values

# Weekly Journal

Saturday, April 25, 2015 4:55 PM

April 25, 2015

The week has been kind of weird. I broke my arm, and I have been behind in all my work this week due to sleeping a lot from the pain meds. I am not even sure exactly what I am supposed to be doing on this class, but I am sure I will get into the rhythm this week. I am not going to type much this week considering I have only one hand to type at the moment. I think I have everything done that I need to get done this week. I hope my semester in this class is a great one. I hope to end my final semester in college on the best note that I can.

May 23, 2015

This week I think is my breaking point! I

# Team Meetings

Wednesday, May 6, 2015 10:11 PM

May 6, 2015

Using GitHub for the first.

GUI

- drag file
- open GUI
- commit
- sync

PWR

git pull  
git push

What will I be learning this week?

- Java Collections - ~~just~~ L the series

Other Items

- what you did today?  
yesterday?  
tomorrow?

# Elevator Pitch - Project Idea

Wednesday, April 29, 2015 12:12 PM

## Wall Paper switcher

### How will it switch?

- Based on location
- Based on time of day
- Based on battery Percentage

### How many wall papers can we switch?

- 5 Wall papers

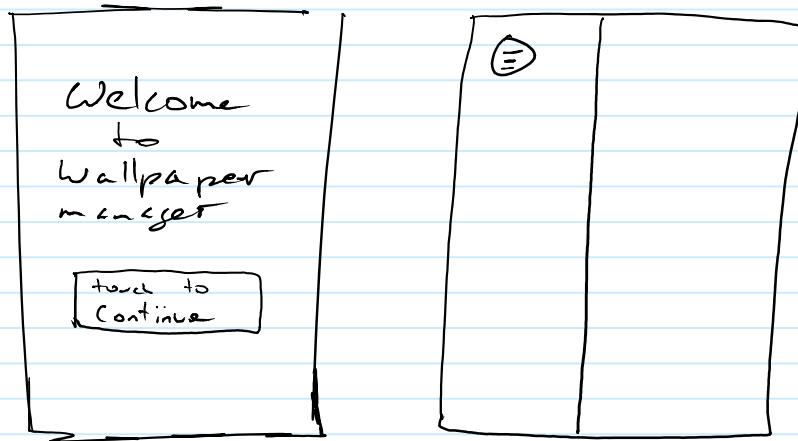
### Why?

- For design
- Saving battery
- Can't decide what wall paper you like

### Other Items:

- App will be process that runs in the background
- Process that runs in the background
  - Make sure that it runs smoothly in the background
  - If Battery option is selected, then process should shut itself off so it doesn't continue to run the background.

## The Application



# Use Case Document

Monday, May 25, 2015

9:45 PM

# UML

Saturday, May 23, 2015 4:12 PM

## Class Diagrams

- A class is basically a template for which objects are created.
- Classes define attributes, information that are relevant to their instances, operations, and functionality that the objects support. Some of the more important guidelines

## Use Case Diagram

### Useful Links:

- <http://www.agilemodeling.com/artifacts/useCaseDiagram.htm>

## General Notes

- Purpose of a use case diagram is to capture the dynamic aspect of a system.
- Use case diagrams are used to gather the requirements of a system including internal and external influences.
-

# JAVA Collections

Wednesday, May 13, 2015 1:05 PM

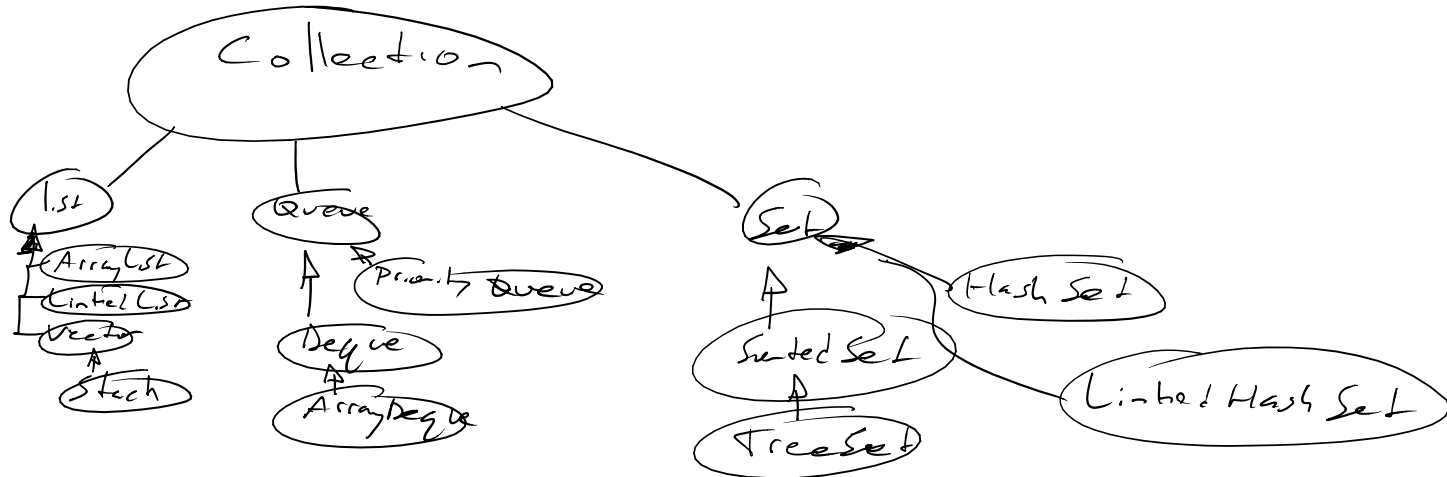
From <https://docs.oracle.com/javase/tutorial/collections/intro/index.html>

- Java Collections can sometimes be called a container. It is simply an object that groups multiple elements into a single unit.

Other resources

- <https://docs.oracle.com/javase/tutorial/collections/>
- <http://www.java2novice.com/java-collections-and-util/>
- [http://www.tutorialspoint.com/javaexamples/java\\_collections.htm](http://www.tutorialspoint.com/javaexamples/java_collections.htm)
- <http://math.hws.edu/javanotes/c10/s4.html>
- <https://www.youtube.com/watch?v=mkCTxtLe7XU>

Collections provide a set of classes to store and manipulate objects or groups of objects



— What is a collection??

- Similar stuff
- ↳ collection of anything

ex/ employee



# Hibernate

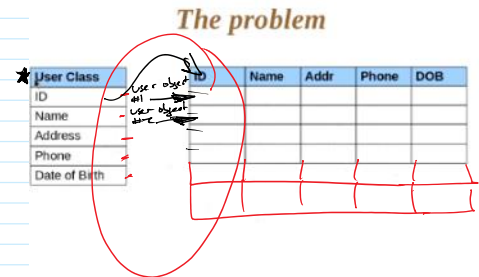
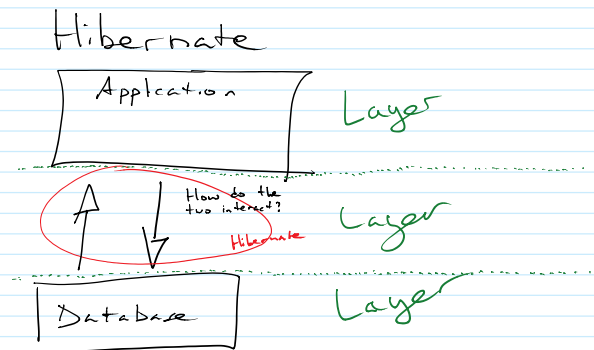
Tuesday, May 19, 2015 10:47 PM

## Useful Links:

- [http://en.wikipedia.org/wiki/Hibernate\\_%28Java%29](http://en.wikipedia.org/wiki/Hibernate_%28Java%29)
- Used in the data layer of applications
- [http://www.theregister.co.uk/2005/12/06/hibernate\\_object\\_relational\\_mapping\\_2/](http://www.theregister.co.uk/2005/12/06/hibernate_object_relational_mapping_2/)
- <https://www.youtube.com/watch?v=66XbyTM7tM4>
- <https://www.youtube.com/watch?v=wNT-EZsaC98>
- <http://www.vnrgroups.com/articles/java-hibernate-tutorial-part-1/>
- <http://www.vnrgroups.com/articles/java-hibernate-tutorial-part-2/>

## General Notes

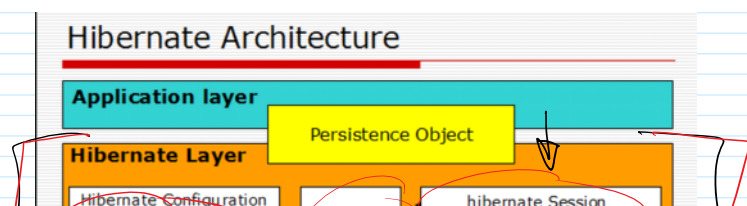
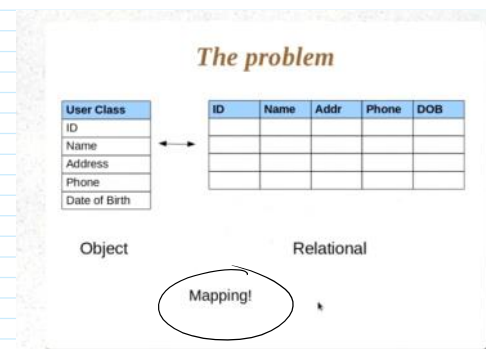
- An object relational mapping framework for the Java language, providing a framework for mapping
- an object-oriented domain model to a traditional relational database
- It is an ORM tool
- Used in the data layer of applications, meaning the layer in which the applications interact with the data.
- Implements JPA - Java Persistence API - Persistence implement
  - More portable if not wanting to use hibernate
- The problem they are trying to solve
  - Saving data in a relational Database
  - Each of these objects data would have data for a particular user
- Need to use hibernate configuration in xml file

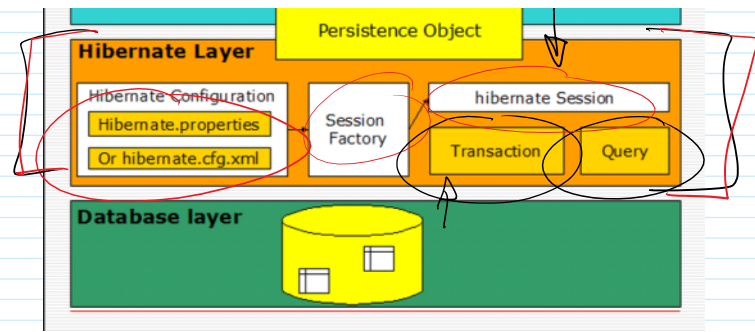


EX1 - user object #1 is saved as row #1

- A class corresponds to a table, an object corresponds to a row in that table

→ problem is objects there in java no objects in database  
\* Mapping is what is a pain





# JSON

Monday, May 25, 2015 12:28 PM

JavaScript Object Notation

# MVC (Model View Controller)

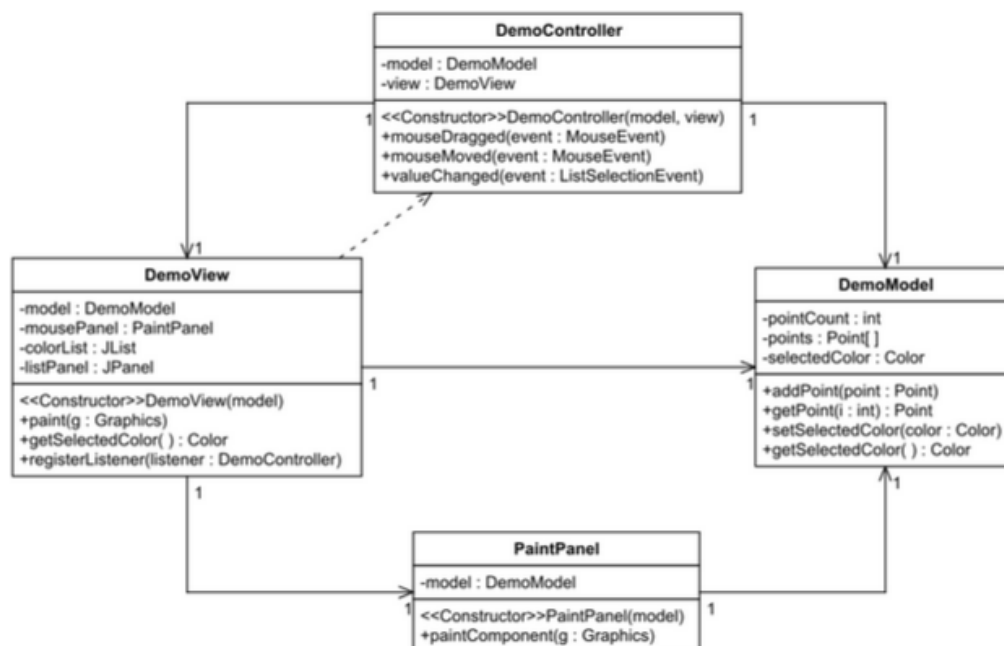
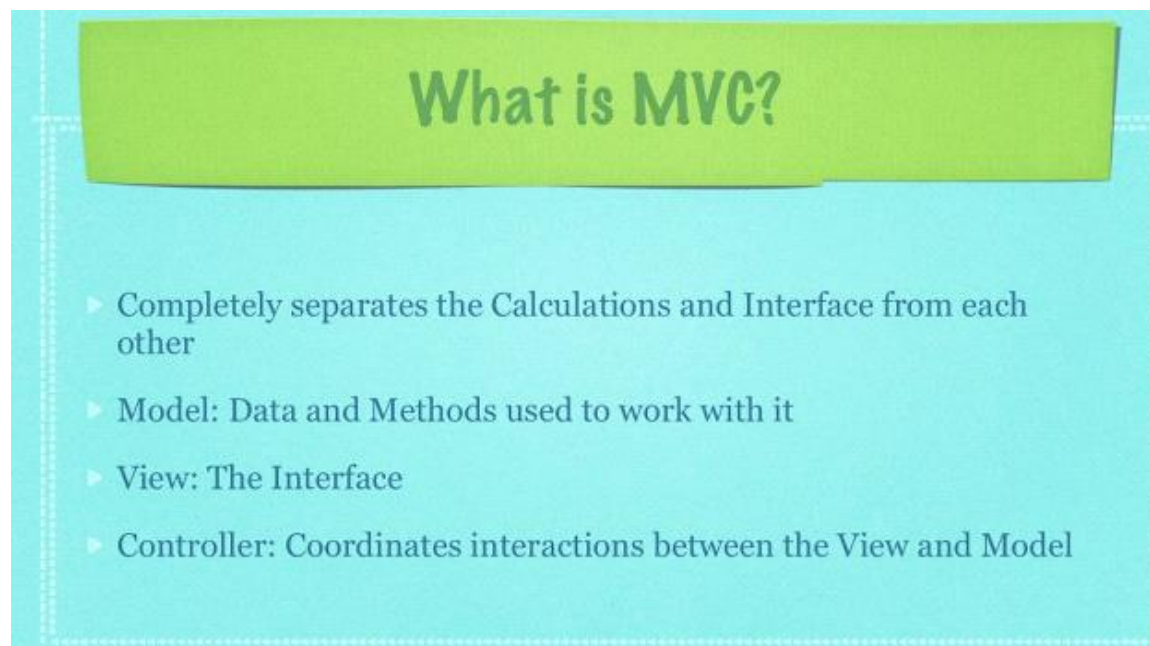
Monday, May 25, 2015 4:17 PM

Useful Links:

<http://www.newthinktank.com/2013/02/mvc-java-tutorial/>

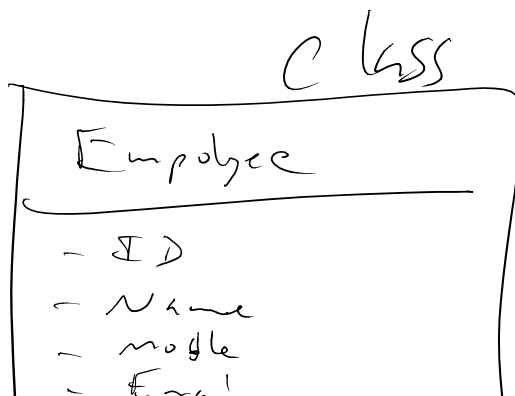
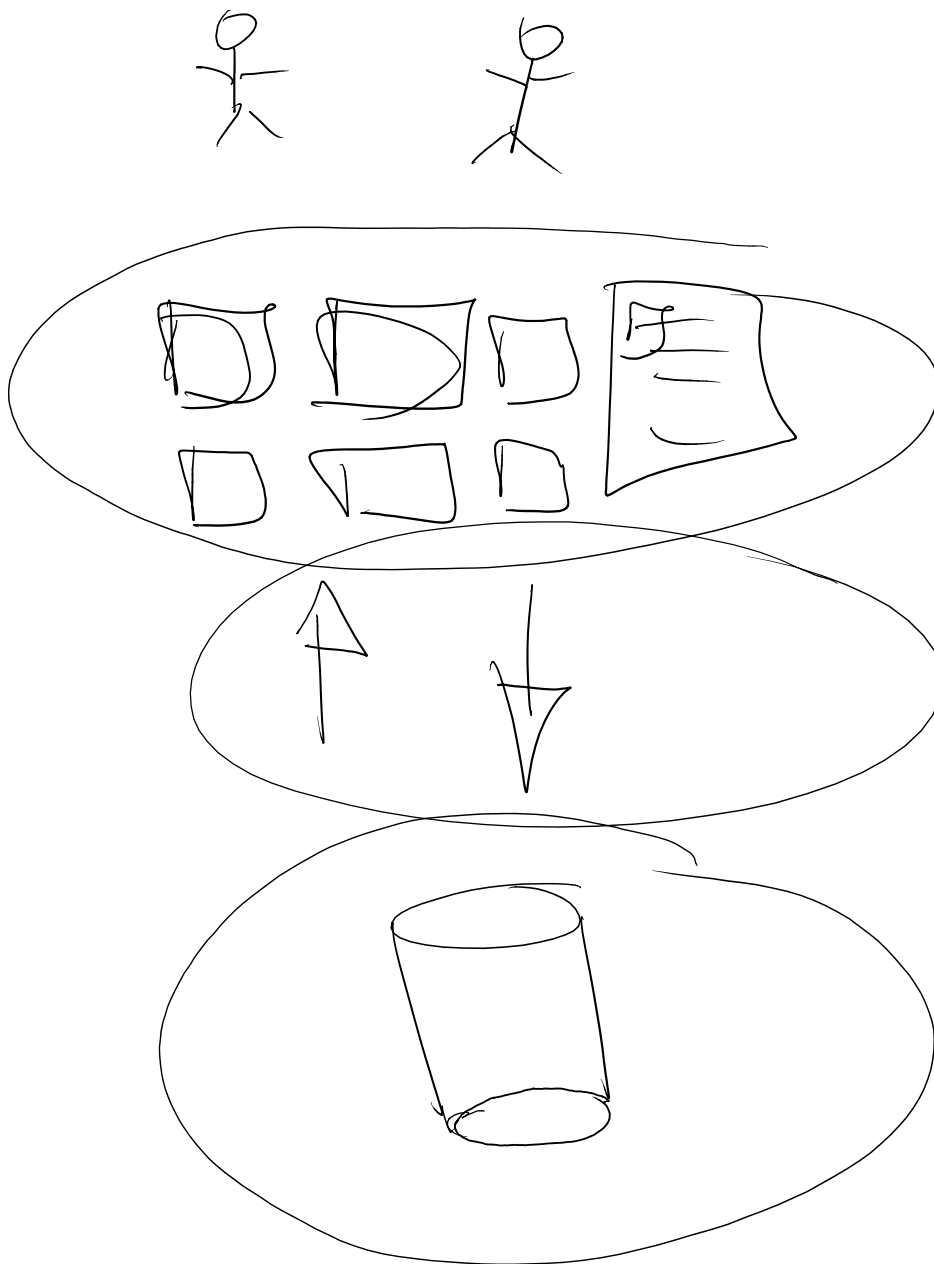
<http://www.cs.utsa.edu/~cs3443/mvc-example.html>

<http://www.codeproject.com/Articles/25057/Simple-Example-of-MVC-Model-View-Controller-Design>



# Presentation Notes

Monday, May 25, 2015 5:12 PM



ID	Name	mobile	Email
1			
2			
3			
4			

- name  
- mogle  
- Email

