Class Notes, 2022-2-3 (Notes by Jennie C *-attribution amended by CM***)**

- Make use of the information loaded into Blackboard (links to resources, etc.)
- Monday PD will offer a cloud based workshop on Monday (via webex) and a 3D workshop on Thursday (via webex). He'll also do workshops for database creation but hasn't announced when that is.
- Naveena Kota will be our TA so she'll drop into our groups now and then (we'll need to invite her I think)
- PD will drop into our meetings at least every couple of weeks
- Before PD accepts our invite to Github he's going to make sure the folders, etc. are set up correctly then he'll join it
- We have to post a link to our meetings in BB (have we?)

POS
- We're looking at generated income and have to protect the money of the owners and clients. The paperwork tells us WHAT the compliances are, but we have to figure out HOW to do it.
- Data storage is extremely important. Security is key. There are 9 data storage points. Understand all of them.
- Financials have to be included. Look at repairshopR to understand HOW they work, BUT write your own code.
- Use VISIO for flowcharts and use case diagrams.
- Resources are listed on Blackboard.
  - authorize.net is used to verify credit cards. Don't use cybersource. It takes 15 days to get paid.
  - java: can't use
  - php: uses sql script to open connection to database, take data out/put data in, then close the database
  - sql: used to manage data
  - javascript: we can use js to wrap up data to send it to php (but we can't use jsnodes or ANYTHING that connects to outside resources)
  - create your own list of resources outside of Blackboard if you don't have one already
- Gantt Chart: Should be filled in with a semester's worth of work. The group leader should resubmit it to Blackboard each week because it should be updated each week as work progresses
- Submit the proposal in the Discussion Board on Blackboard
- Don't forget about debugging
- Assets: things that connect to another website can't be used, BUT we can use some free resources:
  - ex. use php.net for session class setup, use snippets of sql to manipulate data in our database. Snippets of code are general standards so they can be used.
- Don't rely on github or any other resource to have your backups. Make sure you have your own.

POS Resources

Consider the following resources. You must read in order to find useful information!

- Financial Regulatory Compliance
  - https://www.fdic.gov/regulations/laws/important/
- Authorize.net - Online credit card check out processing.
  - https://www.authorize.net/
- Cybersource - Electronic financial processing service.
  - https://www.cybersource.com/
- RepairShopR.com - An inventory and service based POS.
  - https://www.repairshopr.com/
- cubecart - Online store
  - https://www.cubecart.com/
- Visio - flowchart tool
  - https://www.office.com/launch/visio?auth=2
- C4model.com - Software Architecture Document Guide
  - https://c4model.com/

Programming Resources.

- C/C++ Resource - Full Programming Documentation
  - http://www.cplusplus.com/
- Java   Resource - Full Programming Documentation
  - https://www.oracle.com/technetwork/java/javahome-150442.html
- PHP   Resource - Full Programming Documentation
  - https://www.php.net/
- SQL (Structured Query Language) Resource - Full Programming Documentation
  - https://dev.mysql.com/doc/
- JavaScript Resource - Full Programming Documentation
  - https://developer.mozilla.org/en-US/docs/Web/JavaScript
- Stack Overflow Resource - Assistance when something that should work, doesn't
  - https://stackoverflow.com/questions
- SANS - Cyber Security
  - https://www.sans.org/
- UNREAL (for making games)
  - quixel is a plugin for unreal (it gives you walls, windows, textures…)
- **MySQL Documentation: https://dev.mysql.com/doc/**
- **Simple tutorial from W3 Schools: https://www.w3schools.com/sql/**