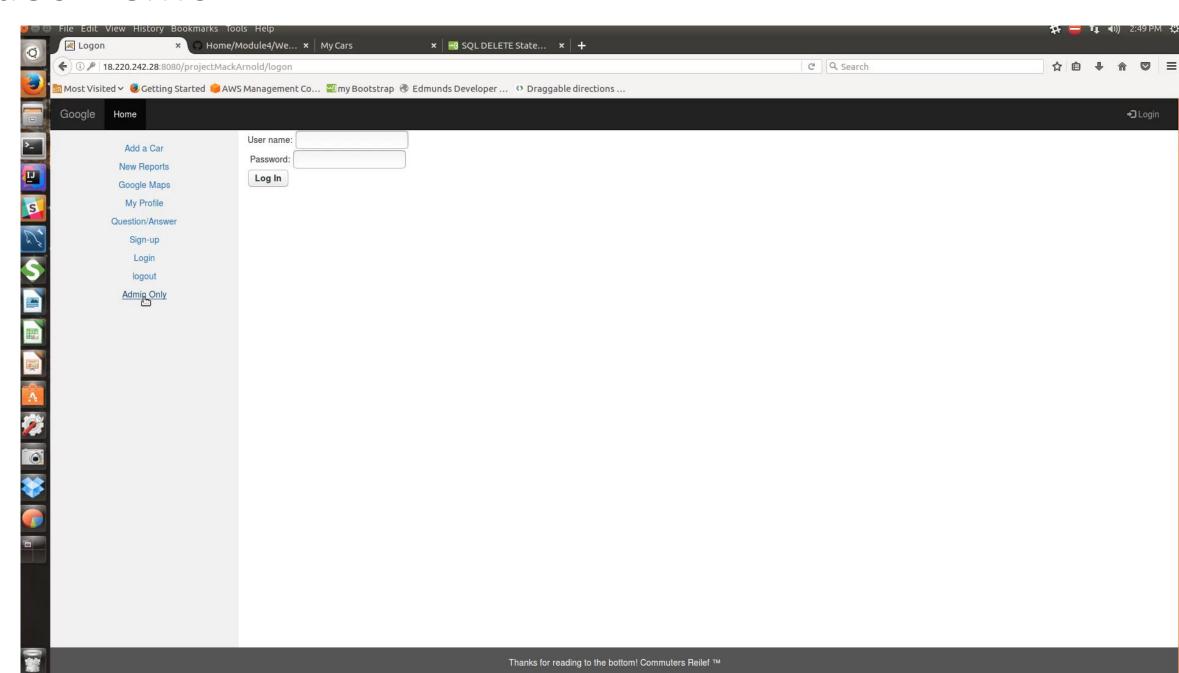
# Final presentation

By: Mack Arnold

#### Commuter Releif

- This application will store your cars
- It will store your reports you make with the correct calculations
- Soon it will be able to email it to your employer
- You can delete cars and reports to your liking
- Only the Admin(me) can delete users.

### Video Demo



Here is my all my test passing with test coverage which is awesome. File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help 📲 🔟 edu.matc.persistence in projectMackArnold 🔻 🕨 🎉 📙 🦞 😲 👺 projectMackArnold > ■ src > ■ test > ■ java > ■ edu > ■ matc > ■ persistence # Project 100% classes, 73% lines covered in 'all classes in scope' 🖶 reports.jsp Method, % Class, % Line, % 🚛 reports-body.jsp edu.matc.... 🟭 right-cars-sidebar.jsp 🚋 right-google-sidebar.jsp 🟭 right-sidebar.jsp 🟭 sidebar.jsp 🚋 sidebar-google.jsp 🟭 SignUp.jsp 🚛 signup-body.jsp 🏭 taglib.jsp 🟭 userBody.jsp 🟭 userSearch.jsp ▶ ■ META-INF ▶ ■ WEB-INF Search Everywhere Double Shift 🟭 index.jsp style.css Go to File Ctrl+Shift+N test 🔳 Recent Files Ctrl+E ▼ 🖿 iava Navigation Bar Alt+Home CarsHibDaoTest RouteDaoTest Drop files here to open UserHibernateDaoTest userRoleHibDaoTest resources 🌉 MackProject 📗 edu.matc.persistence in projectMackArnold ↓ □ 至 ← → □ □ 唑 ♠ All 20 tests passed - 2s 277ms 2s 277ms /usr/lib/jvm/java-8-oracle/bin/java ... persistence (edu.matc) ---- IntelliJ IDEA coverage runner ----sampling ... ▼ ⊗ RouteDaoTest include patterns: edu\.matc\.persistence\..\* ✓ deleteRoute exclude patterns:2017-12-06 15:07:14,594 0 [main] INFO org.hibernate.annotations.common.Version - HCANN000001: Hibernate Commons Annotations {4.0.5.F 2017-12-06 15:07:14,608 14 [main] INFO org.hibernate.Version - HHH000412: Hibernate Core {4.3.11.Final} 2017-12-06 15:07:14,610 16 [main] INFO org.hibernate.cfg.Environment - HHH000206: hibernate.properties not found SelectRoute
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 2017-12-06 15:07:14,617 23 [main] INFO org.hibernate.cfg.Environment - HHH000021: Bytecode provider name : javassist org.hibernate.cfg.Configuration - HHH000043: Configuring from resource: /hibernate.cfg.xml ▶ SuserHibernateDaoTest 2017-12-06 15:07:14,636 42 2017-12-06 15:07:14,636 42 [main] INFO org.hibernate.cfg.Configuration - HHH000040: Configuration resource: /hibernate.cfg.xml ▼ @ userRoleHibDaoTest 2017-12-06 15:07:14,706 112 [main] INFO org.hibernate.cfg.Configuration - HHH000041: Configured SessionFactory: null [main] WARN org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl - HHH000402: Using Hibernate 2017-12-06 15:07:14,827 233 [main] INFO org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl - HHH000401: using driver [c 2017-12-06 15:07:14,838 244 2017-12-06 15:07:14,838 244 org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl - HHH000046: Connection prop [main] INFO ⊗ selectRoleTest 2017-12-06 15:07:14.839 245 [main] INFO org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl - HHH000006: Autocommit mode 2017-12-06 15:07:14,840 246 [main] INFO org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl - HHH000115: Hibernate conne Wed Dec 06 15:07:15 CST 2017 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.

Here is an example of me running a test to select a car and logging it.

```
The car you selected is: Jeep Cpmass
```

Here is an example of my error handling, this is when I was trying to make sure that I'm getting all the components of the route, and adding it to the database

```
//double CityMPG = Double.parseDouble(addRoute.getMpgHigh());
//double highMPG = Double.parseDouble(addRoute.getMpgHigh());
if (addRoute.getMpgCity() != null && addRoute.getMpgHigh() != null) {
    log.info("city miles:" + addRoute.getNumberOfCityMiles());
    log.info("city mpg: " + Double.parseDouble(addRoute.getMpgCity()));
    log.info("highwayMiles: " + addRoute.getNumberOfHighwayMiles());
    log.info("highway mpg: " + Double.parseDouble(addRoute.getMpgHigh()));
    log.info("gas price: " + addRoute.getGasPrice());
    double totalMoney = (((addRoute.getNumberOfCityMiles() / Double.parseDouble(addRoute.getMpgCitog.info(totalMoney);
    decimalFormat.format(totalMoney);
    log.info(totalMoney);
    String totalMoneyString = String.valueOf(totalMoney);
    addRoute.setTotal(totalMoneyString);
}
```

## My API Experience

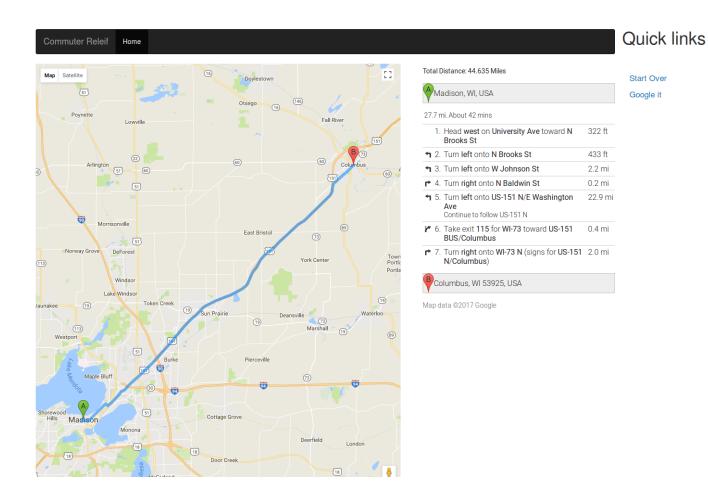
It took forever to figure out after messing with the code I wrote from the API site for this that my bootstrap was messing up the map and wouldn't allow it to show up.

And as you can see I had to pixel push this entire page because my bootstrap kept screwing it up so I tried my best to make it look like the bootstrap I used.

I am also aware that this API consumes javascript, but I really liked this if I could only get it to take the info and make a report out of it. (coming soon)

Add a Car New Reports My Profile Question/Answer Sign-up Login logout Admin Only

Screenshot



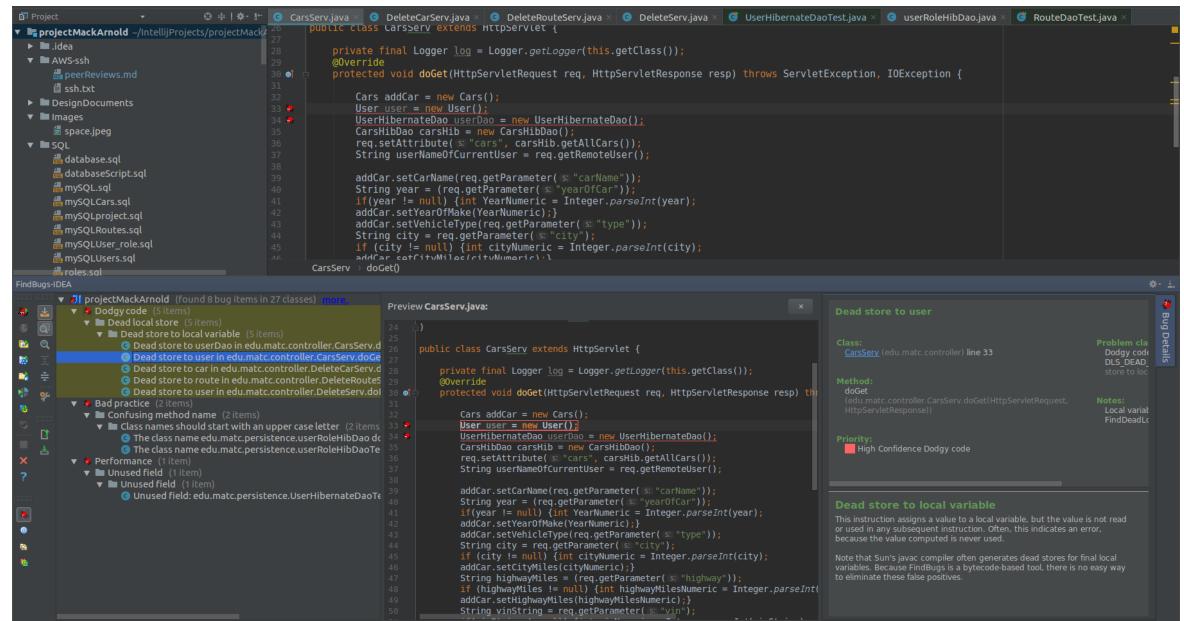
#### Lessons learned

- Using the logger is a great use, but every once and a while clear out the myAppLog. It gets huge and really confusing if your logging a ton of stuff over and over.
- Constantly uploading to AWS is a good idea. I went a month without touching the AWS account, and when I deployed some things worked but not everything. So deploying consistently is a good idea.
- Do the @before or import.sql for testing is a great idea. It saves time and makes less of a hassle in the future.
- Also make the tests right away so when you get to implementing and using hibernate, make sure tests pass so you know your methods work.

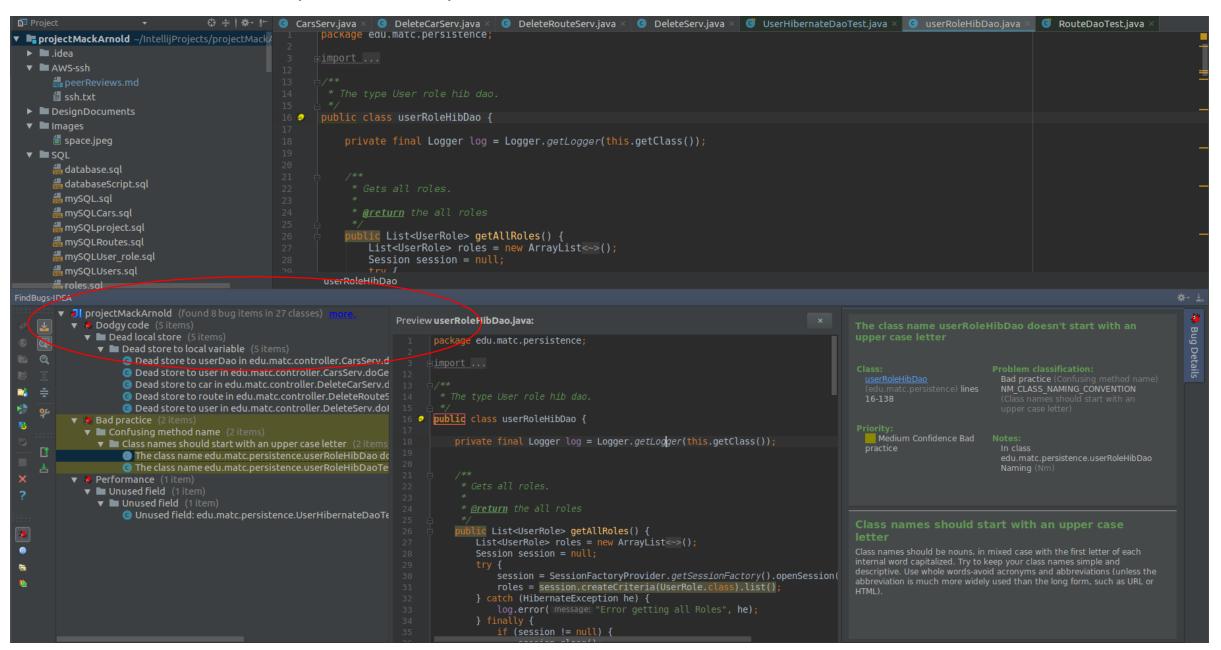
# My individual research topic

- I implemented a code quality plugin to ensure that my code isn't as bad as it was
- The next couple slides will show that there weren't that many errors.
  - Just some unused objects I created, and some names that it didn't understand that I will explain when I get to it.

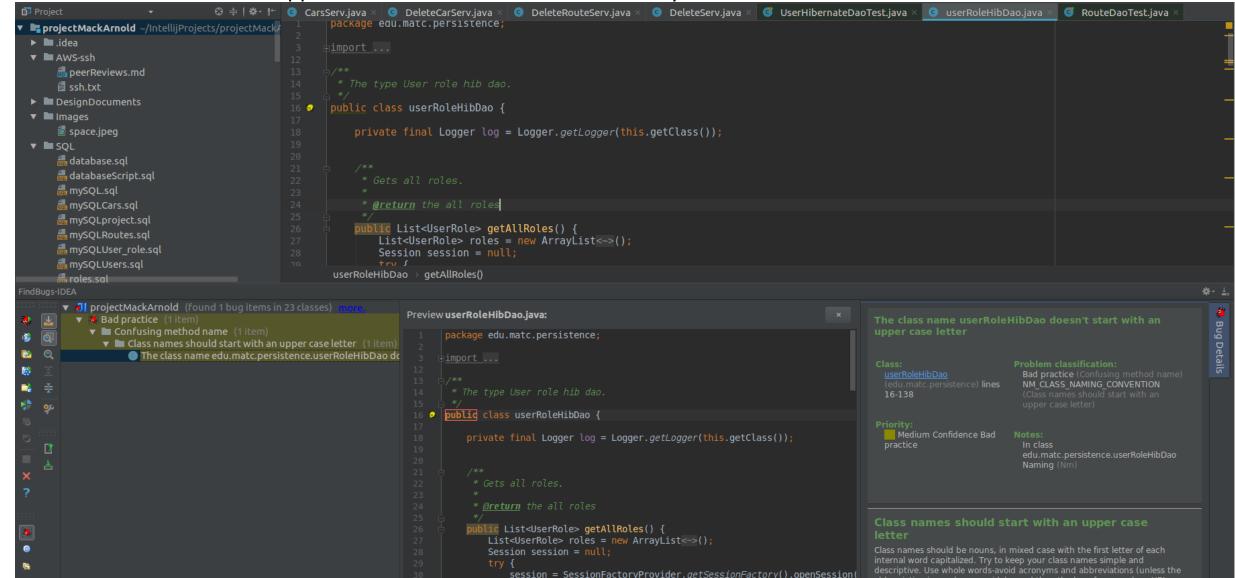
This is an example of the plugin finding an object I made and never used, which intellij sees as well, but this helped me delete redundant code.



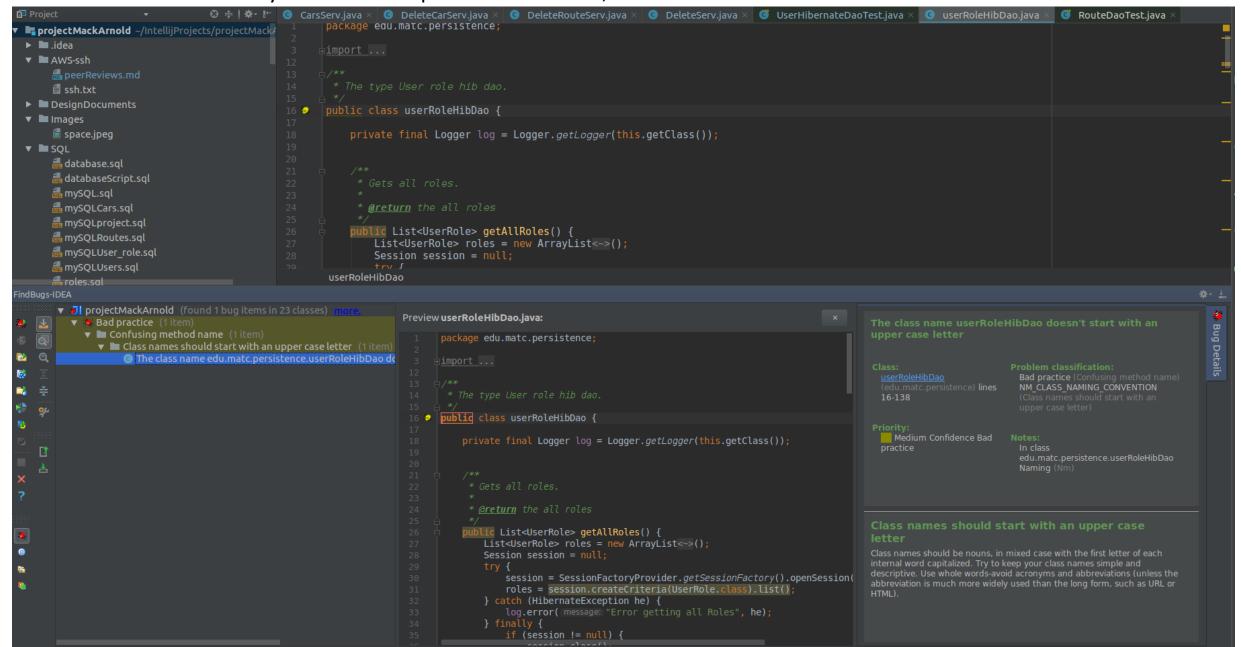
This is to show you that when you run the bug finder, it will say how many bugs in how many classes it analyzed.



And this is What I found that Paula pointed out to me that not everything it will tell you needs to be changed. For this example its complaining about my real weird name for my classes and in this case I don't have to change anything, its just the way I code and read it. It also complains when it sees that I don't have an uppercase class name which can be easily overlooked.



This is another example from the last slide where the class didn't start with a capital letter, but when you hover over the name it says couldn't comprehend the name, but I couldn't hover and screenshot at the same time.



This is the end of my final Individual presentation for Enterprise Java.

I will not be continuing this project....