In-class Exercises
Week 5, User stories & RIPR

Software Testing & Maintenance

SWE 437

http://go.gmu.edu/swe437

Dr. Brittany Johnson-Matthews

(Dr. B for short)

In-class Exercise #1: User stories

Write user stories for **new functionalities** for the Piazza web app.

Use the style illustrated in the readings. Write **one user story for each of the following three functionalities**:

      Color coding posts

      Dictating the content of a given post

      Subscribing to be notified of new posts based on keywords

Pick one of your user stories.

Design **at least three TDD tests** for that user story.

"Design" means to describe the inputs and expected outputs–you do not need to implement them in JUnit.

In-class Exercise #2: RIPR

Consider the [Primes.java](#) class. It has a fault in the `computePrimes()` method that is documented in comments.

Download and compile Primes. A test input value is a single integer. If possible, **find a test input value that satisfies each of the following test requirements**. If one is not possible, briefly explain why.

- Does not reach the fault
- Reaches the fault, but does not infect the program state
- Reaches the fault, infects the program state, but does not propagate
- Reaches the fault, infects the program state, and propagates to a failure in the output

You can be the test oracle, that is, you inspect the output visually.
You can also assume all failures are revealed (that is, you will observe all failures).