2017 Java Coding Competition - Finals

The Problem

Congrats on mastering your first assignment with SF University. We hope you enjoyed building blocks and conquering the concept of poly blocks. Your new assignment is to create a block chain and explain how SF could benefit from its technology. We have provided some basic requirements that include payments for claims and documenting these transactions through block chain.

Description of the Basic Requirements (Successfully pass JUnit tests)

Block chain – A list of permanent records (blocks) that are linked together using a timestamp and other transactional data. The block chain eliminates paper processes and increases efficiencies building trust among all participants involved.

BlockchainTest – step 1

- Run JUnits 1st time – expected results (Runs: 3/3, Errors: 0, Failures: 3)
- Verify chain after adding 2 claims and 2 payments for those claims.
- Etc.

Extra features - Step 2:

Blockchain is not just for crypto currency. It has a number of other benefits. Please find features that could be useful from an insurance/financial perspective.

- Example of insurance implementation:
  http://www.insurancejournal.com/news/international/2017/10/30/469647.htm

First Actions:

- Import the problem statement into your IDE - GitHub
- Prepare for your presentation (No powerpoints – UML is a good way to present design)

When you are done:

- Update the feedback.txt file and include the following information:
  - Your team – name of each individual participating.
  - How many JUnits you were able to execute successfully.
  - Document and describe the additional "nice to have" features included, to help the judges properly grade your submission and explain how to properly execute new enhancements.
- Push your changes to one single branch for you and your teammate. Open a single pull request after development is completed.

Questions:

- Analysts will be outside of your room to help with any questions you may have.

Rules

- Contestants cannot seek help from individuals outside their team.
- Teams are expected to have the necessary tools and JARs preloaded on their machines **prior** to the competition.

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How you will be Graded

Grading is broken up into 3 grading components:

Online Competition –	10
Finals Competition (coding) –	10
Presentation -	10

Finals Competition (coding):	Points

• 100% core requirements (Step 1) met, including:
  o Number of JUnits that pass using correct functionality in the program
  o Code must compile and execute
	2

• Code Cleanliness, Maintainability, Code documentation:	2
• Object-oriented principles:	2
• Creativity (Step 2):	4