In-class 4: Web app testing with ISP

Due 4-Oct-2019, 3:15pm (Submit to Collab)

**Purpose:** Practice input space testing, apply ISP coverage criteria to test web app, hands-on experience with Selenium

**Instruction:** Work with your neighbors in groups. Consider a small web app, `convert.php`, that allows users to convert measurement.

Design IDM(s) for the app, write tests that satisfy Base Choice Coverage, and then automate your tests. Note: Try to keep your partitioning simple and choose a small number of partitions and blocks.

1. List all of the **input variables**, including the state variables

2. Define **characteristics** of the input variables. Make sure you cover all input variables

3. **Partition** the characteristics into blocks
4. Do all the partitions you design satisfy **completeness** and **disjointness** properties? If not, revise the partitions (refer to task #3)

5. Assign **values** for each block

6. Write a set of **test requirements** that satisfies **Base Choice Coverage**
7. Based on your test requirements (previous question), identify any **infeasible** test requirements you might have

8. Write a **test set** (i.e., a set of test cases), using the values from step 5
9. Automate your tests, using Selenium

Grading rubric
[Total: 10 points]: Done (or provide evidence of your attempt)

Submission

- Take a selfie (or picture) of your team
- Take screenshots of the worksheet (with your answers)
- Submit all pictures/screenshots and your Selenium test (.java file) to Collab (under Assignments/in-class4). No need to zip them. Do not submit .class files.
- Each team submit only one copy
- When submitting your in-class to Collab, make a note in a submission textarea (or text box), clearly specifying all team members’ computing IDs and names. This will help us record your team’s grades efficiently.