

PRA3 - TDD and deploying web applications

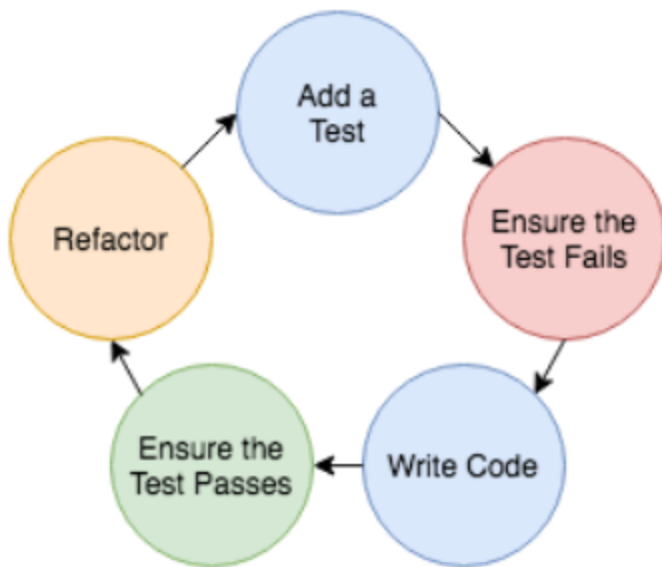
New Attempt

- Due Oct 4 by 6p.m.
- Points 4
- Submitting a website url

Learning Goals:

- Successfully run and interpret unit tests for a Flask application to verify functionality.
- Deploy web applications using industry-standard tools and practices.

Introduction of TDD




Test-Driven Development (TDD) is an iterative development cycle that emphasizes writing automated tests before writing the actual feature or function. Put another way, TDD combines building and testing. This process not only helps ensure correctness of the code -- but also helps to indirectly evolve the design and architecture of the project at hand.

TDD usually follows the "Red-Green-Refactor" cycle, as shown in the image above:


- Write a test
- Run the test (it should fail)
- Write just enough code for the test to pass
- Refactor code and retest, again and again (if necessary)

* For more, check out What is Test-Driven Development? (<https://testdriven.io/test-driven-development/>  (<https://testdriven.io/test-driven-development/>)).

Preparation

- Pick a web application hosting platform
 - Sign up for [Render](https://render.com/)  (<https://render.com/>) -- a web application and database hosting platform with free pricing options. (Please make sure you access it with your UofT account.)
 - Alternatively, you can use any other web application hosting service you prefer.

Activities

- Follow the instructions in the README.md at <https://github.com/shuruizUofT/flaskr-tdd>  (<https://github.com/shuruizUofT/flaskr-tdd>)
- Submit your repo URL to this assignment

PRA-TDD			
Criteria	Ratings		Pts
Complete the TDD task	2 pts Full Marks	0 pts No Marks	2 pts
Deployment of Flask web app	2 pts Full Marks	0 pts No Marks	2 pts
			Total Points: 4