7005ICT - Assignment 2

Due Date: 5pm Friday 4 October 2024 (Week 11)
Weight: 50%
Individual Assignment

Task 1 (46%)
Complete ALL the requirements for the 2703ICT Assignment 2.

Task 2 (4%)
If this course is to teach a different language/framework, the language and framework that would be selected is most likely going to be Python/Django as Python has become the most popular language and Django is the most popular fully fledged framework (equivalent to Laravel) for Python.

However, selecting a language/framework by popularity is not always the best criteria for deciding the language/framework to teach. There are other more important factors such as the applicability of the fundamental concepts.

Instead of the conventional Model View Controller (MVC), Django imposes the use of Model View Template (MVT). Your task is to compare Laravel's MVC with Django's MVT by:

1. Use a simple example from your assignment submission to show and compare how your Laravel MVC code would be implemented in Django's MVT.
2. Refer to the table below comparing MVC with MVT (Source https://www.geeksforgeeks.org/difference-between-mvc-and-mvt-design-patterns/)

S.NO.	Model View Controller (MVC)	Model View Template (MVT)
1.	MVC has controller that drives both Model and View.	MVT has Views for receiving HTTP request and returning HTTP response.
2.	View tells how the user data will be presented.	Templates are used in MVT for that purpose.
3.	In MVC, we have to write all the control specific code.	Controller part is managed by the framework itself.
4.	Highly coupled	Loosely coupled
5.	Modifications are difficult	Modifications are easy
6.	Suitable for development of large applications but not for small applications.	Suitable both small and large applications.
7.	Flow is clearly defined thus easy to understand.	Flow is sometimes harder to understand as compared to MVC.
8.	It doesn't involve mapping of URLs.	URL pattern mapping takes place.
9.	Examples are ASP.NET MVC, Spring MVC etc.	Django uses MVT pattern.

Select a comparison/row from the above table between rows 3 to 8 (e.g. MVC his highly coupled and MVT is loosely coupled) and discuss the following:

1. Explain what it means, provide example if necessary.
2. In the context of Laravel's MVC vs Django's MVT, do you agree or disagree with the author? Provide your reason to convince the marker regarding your position.

Note: for some of the comparisons, the teaching team is not fully convinced by the author, hence if you agree with the author, you will need to provide more convincing arguments than what the author have provided.

Write at most 1.5 pages. Submit this task as a PDF file via L@G.