University of Makati

College of Computing and Information Sciences

ELEC 5 – Group Activity

Scenario: [INTELLITECH] Motor Vehicle Plate Number Coding Detector (Traffic Monitoring Application)

A local government unit are currently in a process of developing a traffic management system to help them in maintaining the traffic in their city especially during peak seasons. As part of the developing team that they hired, your team were ask to proposed a feature about number coding scheme. They want the feature to be simple and easy to use with minimal variable inputs from the vehicle owner such as vehicle type, plate number, day, and time. The output should be simple as follows "Your motor vehicle with Plate No. ______ is CODING / NOT CODING today." Other details are as follows:

Table 1: Example 1 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT
Vehicle Type	Honda CRV
Plate Number	DKM 1377
Day	Thursday
Time	1300
OUTPUT RESULT	Motor Vehicle Honda CRV with Plate No. DKM 1377 is CODING today.

Table 2: Example 2 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT	
Vehicle Type	Toyota Camry	
Plate Number	UAP 2853	
Day	Monday	
Time	0830	
OUTPUT RESULT	Motor Vehicle Toyota Camry with Plate No. UAP 2853 is NOT CODING today/during weekends.	

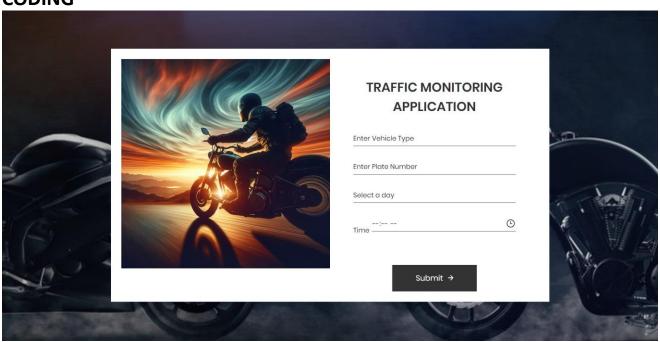
Table 3: Example 3 Variable Inputs with Sample Data

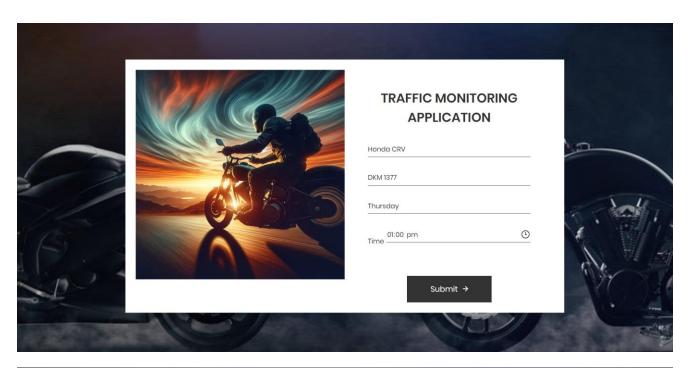
VARIABLE INPUT	SAMPLE INPUT		
Vehicle Type	Honda Bravo Motorcycle		
Plate Number	DA 93600		
Day	Wednesday		
Time	1500		
OUTPUT RESULT	Motor Vehicle Honda Bravo Motorcycle with Plat		
	No. DA 93600 is EXEMPTED in coding scheme.		

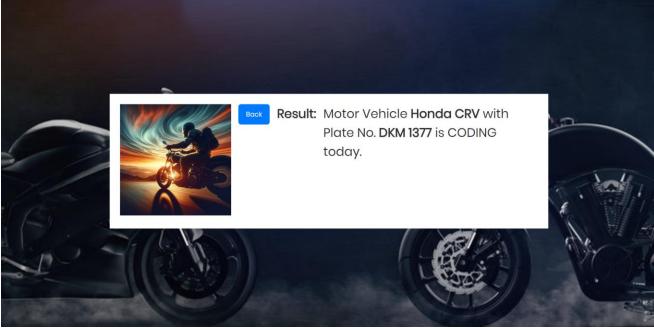
Rubrics (50 Total points)

Criteria	Mastery (2.5 points)	Meeting (1.5 points)	Does Not Meet (0.5 point)			
Scientific Accuracy	Use of multiple variables that demonstrate understanding of environmental factors.	Use of some variables that demonstrate understanding of environmental factors.	Use of variables that fail to demonstrate understanding of environmental factors.			
Coding Efficiency	Code is easy to follow and direct.	Code is mostly easy to follow and direct.	Code is convoluted and unnecessarily long.			
https://forum.code.org/t/share-your-rubric-for-assessing-computer-models/2927/48						

CODING

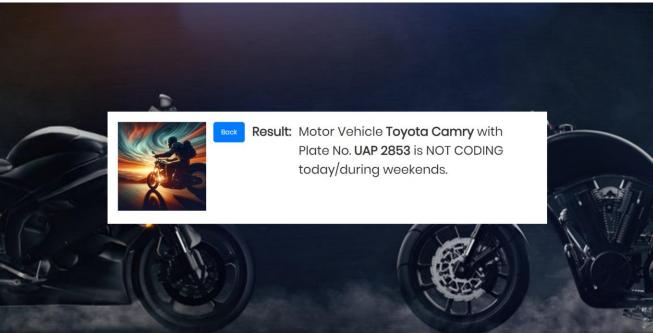






NOT CODING





EXEMPTED

