

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Information Technology

Department of Artificial Intelligence and Data Science

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Class: SY Division: B Roll No: 272028

Semester: IV Academic Year: 2022-2023

Subject Name & Code: Software Engineering: ADUA22204

Title of Assignment: Class Diagram.

Date of Performance: 01-04-2023 Date of Submission: 17-04-2023

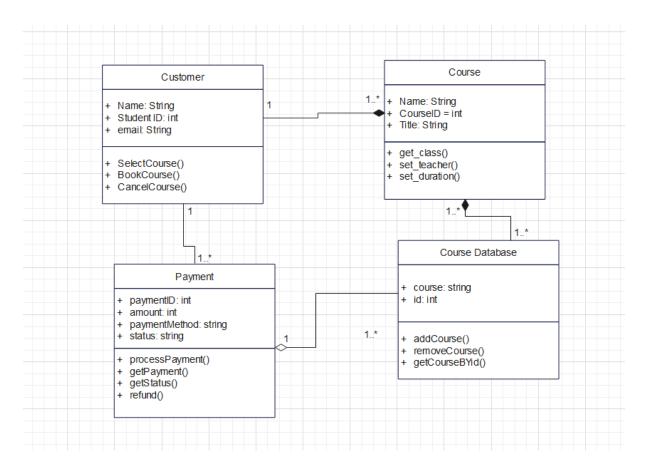
Aim: - To make class diagram.

		SE Assignment no: 5
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	2	the course distinct management of sportment of sportment of
		Introduction to class Diagram
	-70	A class diagram is a types of UMI diagram used in software engineering
-ur		To model the structure of asystem in tom of its classes, their attributes,
		method, and the relationship among them.
	2)	In a class diagram, each class is represented as a rectangle with the sidion
	1	The top section contain the class name, the midle section contain the class
4 10	1-	The allients and the bottom section contain the class method.
	0	The attributes of a class wethood: represent the data that is stored in an
		Hypert of that class, and the method represent the operation mal can be
13		by med on that data.
4	7	he relationship between classes can also be depicted in a class diagram
0	100	umost common relationship are inheritance where one class extend
-	10	notices, and composition, where a class is composed of one or more
1	0	thur clauses.
0	10	
2.	7	uponent of class diagram.
Ms	JN	emain component of a class diagram are:
1.	Clo	(Attributes) and behaviour of an object.
	1.5	(Attributes) and behaviour of an object.
2	lut	interface must have.
		Mtetjace must have

	Page No. Date
0	Association: An association represent a relationship between the
J.	two classes stean be one - to-one, one to-many, on many-to-many.
	on many-to-many.
L _I	Inheritance: Inhoritance is a mechanism by which one can inherit
	The properties and behavior another class.
en ind	- A Class distriction is a supplied of a month sent of the
5.	Appreciation: Acongation is a special from of association
	Aggregation: Aggregation is a special from of association one class represent a whole that is compose.
Jan and	other classes, which are it part
	A continue and a series of the
6	Composition: composition is a stronger town of aggregation the
arani I	Composition: composition is a stronger from of aggregation the lifetime of the part is tied to the lifetime of the whole
	If the whole is destroyed, thus all it pout an also
	destayed.
	The same and the s
	There is a sound to be should be should be should be splanted as
	These component help to model the structure of software system and it relationship, and can be used as a bunepoint for
	system divide a security, as a second security, as a second secon
	implementation.
	· Communication of the second
	Prranciali
	Parale
and the same	
	Hands on the study toxist because the first
	probability and decide destruction for the second second second second second

Software Requirement: Star UML.

User story:



Conclusion: Hence we have successfully implemented the class diagram and learned how to make class diagram for any CPS.