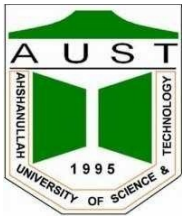
Ahsanullah University of Science & Technology

Department of Computer Science & Engineering



Seba-NGO Management System

Information System Design
&
Software Engineering Lab

CSE-3224

Entity Relation Diagram & Class Diagram

Quest

Submitted By

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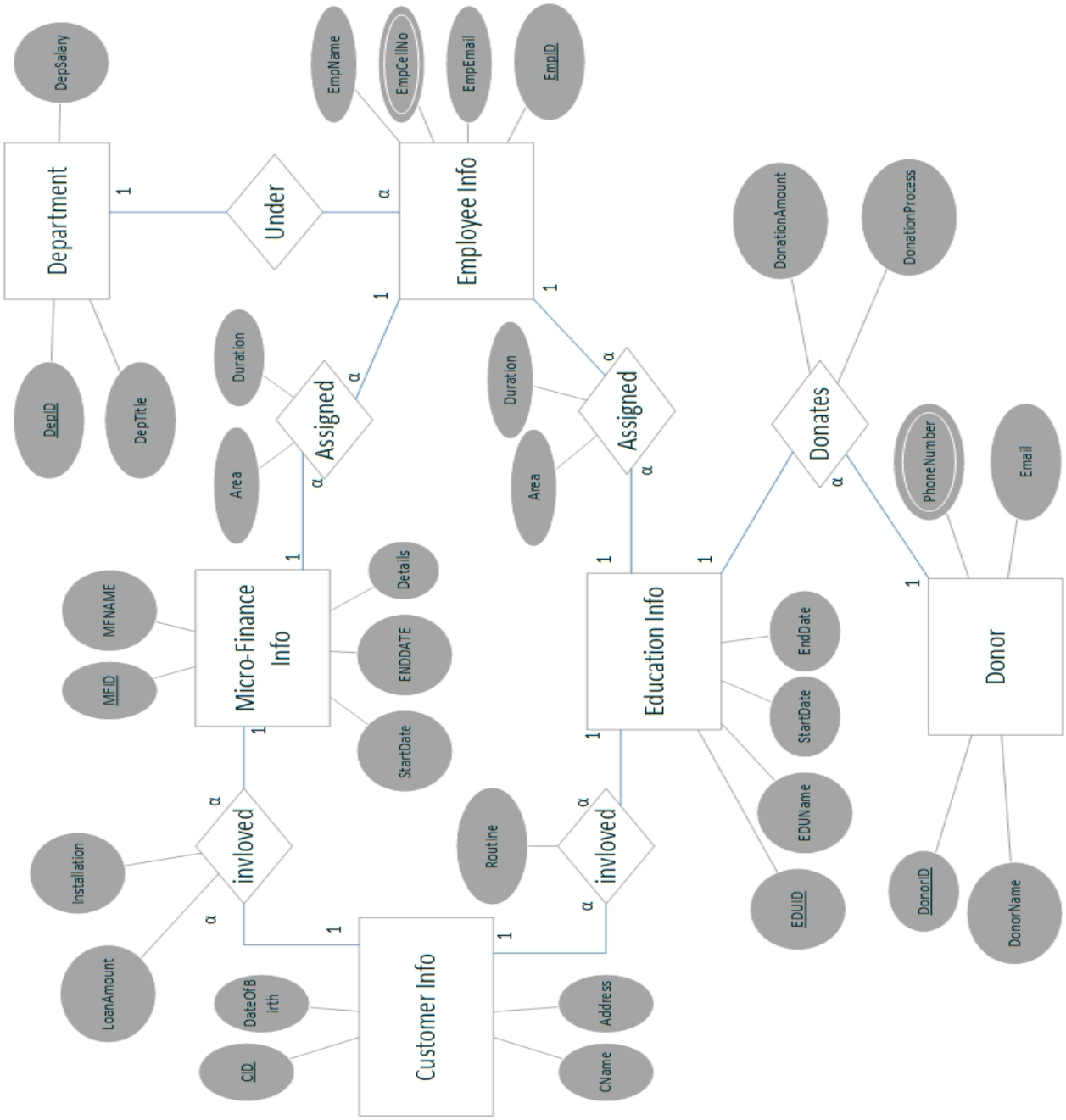
Introduction:

This report has covered two essential parts of this project. These are: **Entity Relation Diagram & Class Diagram**. ERD helped us to determine the data to be stored in the database and the graphical diagrams of ERD made sure of the data flow. On the other hand, Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application.

Entity Relation Diagram:



Database Tables, Attributes & Data Type:

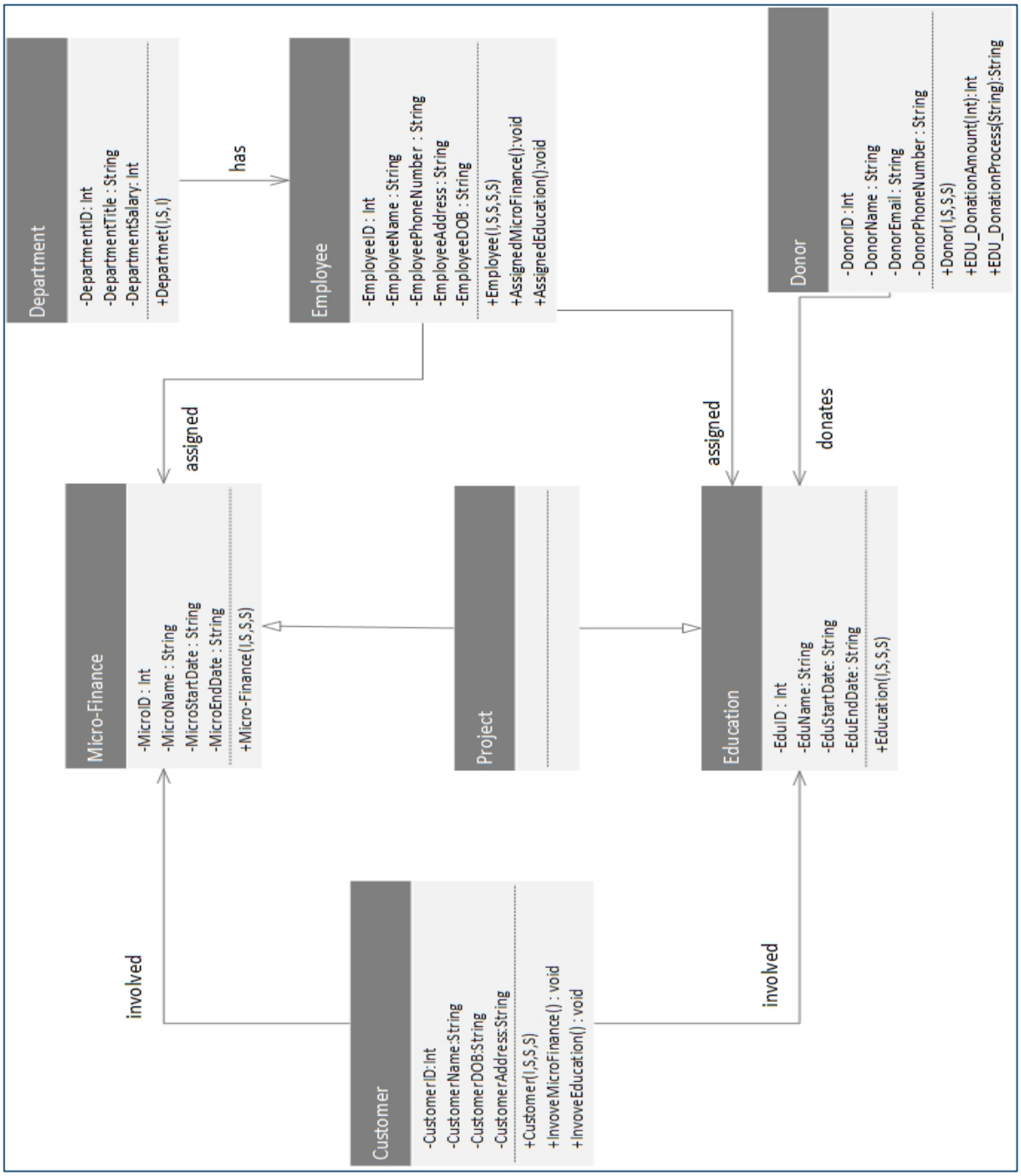
Table Name	Attribute	Data Type
MicroFinance_Info	**MFID**	**INT (Primary Key)**
	MFName	Varchar(100)
	StartDate	Date
	EndDate	Date
	Details	Varchar(1000)
Education_Info	**EDUID**	**INT (Primary Key)**
	EDUNAME	Varchar(100)
	StartDate	Date
	EndDate	Date
Customer_Info	**CID**	**INT (Primary Key)**
	CName	VarChar(100)
	DateOfBirth	Date
	Address	VarChar(1000)
Donor_Info	**DonorID**	**INT (Primary Key)**
	DonorName	Varchar(100)
	PhoneNumber (Multivalued)	Varchar(100)
	Email	Varchar(100)
Department	**DeptID**	**INT (Primary Key)**
	DeptTitle	Varchar(100)
	DeptSalary	Float

Table Name	Attribute	Data Type
Employee_Info	**EmpID**	**INT (Primary Key)**
	EmpName	Varchar(100)
	EmpCellNo (Composite Value)	Varchar(100)
	EmpMail	Varchar(100)
Donation	*DonorID*	*INT (Foreign Key)*
	EDUID	*INT (Foreign Key)*
	DonationAmount	Float
	Donation Process	Varchar(100)
	DonorID, EDUID	**(Primary Key)**
CustomerUnder Education	*CID*	*INT (Foreign Key)*
	EDUID	*INT (Foreign Key)*
	Routine	Varchar(70)
	CID,EDUID	**(Primary Key)**
CustomerUnder MicroFinace	*CID*	*INT (Foreign Key)*
	MFID	*INT (Foreign Key)*
	LoanAmount	Float
	Installation	Float
	CID,MFID	**(Primary Key)**
EducationAssigned Employee	*EDUID*	*INT (Foreign Key)*
	EmpID	*INT (Foreign Key)*
	Area	Varchar(100)
	Duration	Varchar (10)
	EDUID, EmpID	**(Primary Key)**

Table Name	Attribute	*Data Type*
MicroFinanceAssigned Employee	*CFID*	*INT (Foreign Key)*
	EmpID	*INT (Foreign Key)*
	Area	Varchar(100)
	Duration	Varchar (10)
	CFID, EmpID	**(Primary Key)**

Class Diagram:

- The class diagram is a static diagram.
- It represents the static view of an application.
- Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application
- Analysis and design of the object oriented design of an application.
- Describe responsibilities of a system.
- Base for component and deployment diagrams.
- Forward and reverse engineering.



Conclusion:

This concludes the ERD and Class Diagram. This report deals with how data are being stored and how they are stored. This also helps to create clear view of usage of this software for different classes when they are proposed and used.