Project Proposal

- **Topic: -** Northeastern Art Gallery Management
- **Mission Statement: -** To design an E-R Diagram for Northeastern Art Gallery. It helps to keeps the information regarding the Artist like Name, DOB, Nationality, Art Style. It also stores the **Year** of Art when it was made, **Subject/Title**, **Type** of Art & **Price** of the art. The artwork is further divided into several types like Contemporary, Pop Art, Cubism, Abstract Expressionism, Art Deco, etc. Northeastern Art Gallery also stores the information about Customers – **Name, Residential Address, Expenditure ($)** spent on gallery and liking of customers.
- **Learning Objectives: -** This project helps to imbibe myriad of new things regarding the Database Management and Design. Some of the objectives are listed below: -
  - To articulate concepts of ACID properties & principles of database transactions & triggering.
  - To maintain (enter, update, and delete) data on Artist.
  - To maintain (enter, update, and delete) data on year of art
  - To maintain (enter, update, and delete) data on subject of art
  - To maintain (enter, update, and delete) data on piece of art
  - Perpetuate (enter, update, and delete) data on several types of art.
  - To maintain (enter, update, and delete) data on customers.
  - To prolong (enter, update, and delete) data on expenditures of customers.
  - To execute search queries on artist's name
  - To fulfil search queries on title
  - To perform search queries on type of art
  - To complete search queries on price of art
  - To perform queries on the name of customer
  - To execute queries on the customer's address
  - To track expenditure of customer in art gallery
  - To track the likings of the customers based on expenditure of art type
  - To track or divide customers on basis of art type
  - To report on artists name
  - To report on artists nationality
  - To report on artists art style
  - To report on customers name
  - To report on customers address
  - To report on customers expenditure
  - To learn and understand how to design Relational/Non-Relational Database
  - Able to distinguish between SQL & NoSQL Database Management Systems
  - Inculcate basic ethics of Team Management & how to communicate with your team peers
  - To define the process of developing a fully-normalized database design
  - Learn how to write and run queries using SQL programming language.