

American International University-Bangladesh (AIUB)  
**Department of Computer Science  
Faculty of Science &Technology (FST)  
Summer 20\_21  
CSC 2210 Object Oriented Analysis and Design (OOAD)**

**Section: K  
Group No: 07**

**ART GALLERY MANAGEMENT SYSTEM**

An Object-Oriented Analysis and Design (OOAD) project submitted

By

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The project will be Evaluated for the following Course Outcomes

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| **CO3:** Formulate a baseline document to perform feasibility study of a proposed project idea | Total Marks |
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| Project Background Analysis [5Marks] |  |
| Project Feasibility Study [5Marks] |  |
| Project Content Knowledge (e.g., diagram scenario narration) [5Marks] |  |
|  | |
| **CO4:** Design a Complex engineering problem using UML Tools and explain the system using a project report and presentation | Total Marks |
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| Completeness, Correctness, and Diagram Standard Tools [5Marks] |  |
| Report Organization [5Marks] |  |
| Submission and Presentation Delivery [5Marks] |  |

# CHAPTER 1: PROBLEM DOMAIN

## Project Background Analysis

* **Write the background description that helps putting the project into the right context of a problem domain and gives everyone involved a common view of the project.**

This program illustrates the management system of an Online Art Gallery. Utilizing this system, aesthetes can easily buy a painting from the website. Online Art Gallery management system is an application that allows buyers to purchase paintings, scriptures, models online. The purchase is just a click away, they don’t have to go to some old museums and buy from selected stuff. This application will provide you with a wide range of choices. The registration in this application is free, unlike other sites. It provides various categories too, in buyer’s accordance. It provides free home delivery to buyers. It allows users to create their own portfolios. Nearly everything is very much possible to perform with a single click so this system will help customers to computerize the system so that users and clients can access the system online.

* **What is the root cause of this problem? Why is this problem being so important to consider?**

In response to the pandemic situation, museums across the country have temporarily closed their doors to the public. This is the reason why art lovers couldn’t visit museums or galleries and buy their desired paintings.

Art galleries have been providing an efficient means for sellers and buyers to connect with each other since ages. Artists, painters and sculptors can connect and get in touch with the art collectors directly, cutting down on the need of the middlemen. Traditional art galleries serve a lot of purposes. They make the art work of various artists available to the masses, get these artists appropriate amount for their work and enable the common people to view and admire their favorite piece of art. Art galleries have been helping in the growth of both artists and art enthusiast alike. Online Art Gallery is way more convenient than their offline counterparts and possess a lot more functionalities.

## Project Solution and Feasibility Analysis

* **What are the solutions you are going to propose to deal with the problem? why is this solution is particularly appropriate to solve the problem? Is the solution feasible to the meet the business objective?**

Now a day’s people are passionate about art and drawing. They have their hobby on art craft. Sometimes people buy art from gallery. But the during the pandemic situation they cannot go out and buy drawing. That’s why we are developing a software/website where people can view and buy drawing. The main purpose of our software is to maintain people hobby and keep them safe from this pandemic.

This problem is particularly appropriate. Because, now a day the pandemic is spreading too much.

The solution is feasible to meet the business objective.

* **Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals**

Here we are developing a website/software which will have an inventory which will used to store art. User can login to their account to view the gallery. User don not need to go into the store to buy art. We will provide out delivery man to send the art to desire user.

Purpose: The purpose of this project is to develop and object-oriented model for online blood bank management system.

Benefits: The benefits is that this will offer total administration framework that’s will help to keep the data of user and art. The framework gives a web interface to the client where user can buy art. Also the automated system can calculated the art’s price and also update the inventory after user buys an item.

Targets: The main target is to make the system automated. It indicates the prerequisite to create a preparing computer program portion that completes the set of necessities.

Objective: Online Art gallery management is an framework which will create and interface between the buyer and the gallery. Where the whole process will be done automatic.

* **Existing studies presented in the problem area. What are the existing software solutions are available to solve the aforementioned problem?**

There are numerous existing program arrangements are accessible to illuminate the previously mentioned issue in our environment. There are few gallery’s those have online system or server. Where they use to keep track of their sell. For this we are able to say that there’s existing computer can be used to done the whole system by computer program.

* **What makes this project new, innovative, interesting, or otherwise distinct from other similar projects? Does the project duplicate functionality already available in the market?**

The online art gallery management could be a computerized and imaginative project. There are few management system we can see online. But this management system is so much helpful during this pandemic. Because this framework can insure health safety. Also there are several kinds of payments options is included. So user no need to take headache about payment. All the system is well synchronized. So the whole data is stored safely in the database.

# CHAPTER 2: UML DIAGRAM

## 2.1 Use Case Diagram

* + **Does the use case narrative represent the Scenario of the use case diagram?**

Yes.

* + **Does the Use Case diagram include the major use cases, actors who perform the use cases and the relationships among the use cases needed to deliver by the system?**

Yes. The use case is a graphic representation of the interaction among the elements of Art Gallery Management System. It representation the methodology used in system analysis to identify, clarify and to organize system requirements of Art Gallery Management System. An admin of an Art gallery management system can manage full application and system. He can also manage customer and delivery man. When a customer wants to log in in the system, he/she has to give username and password. If he/she has not any account, he/she has to create an account first. After login, he/she can view their profile and browse art gallery. Options of view profile are edit profile details and change password. In browse art gallery there is an option of buy art. If a customer wants to buy an art, he/she has to make payment. Options of payment are Cheque, cash on delivery and credit card. An admin and system both of them can manage arts and orders. System updates the inventory after manage an order. A delivery man manages the delivery. For giving delivery he/she has to check order’s details and address. If he/she wants there is an option to view customer’s profile. Every actor can log in and log out from the system.

