

Chittagong University of Engineering & Technology

Chattogram - 4349

Software Engineering (Sessional)

CSE-434

Name of the Report

**Submission of Analysis Model & Design Model using various UML Diagrams**

# Name of the Students:

|  |  |  |
| --- | --- | --- |
| Simon Islam | Moinul Islam | Md. Mainul Islam |
| *ID: 1504062* | *ID: 1504077* | *ID: 1504079* |

## Activity Diagram



Login

Signup

Authenticate

Valid

Authenticate

Invalid Invalid

Check

Check

Valid

Sell Item

Product Listings

View Profile

Add Info, Price,

Contact

Search Product

Update Database

History

Edit Profile

Yes

No

Buy?

Sell More Item?

No

Yes

Recommend

ation System

Change

Password

Establish Connection

with Seller

Confirm Order &

Update Database

Logout

Figure 1: Activity Diagram of the proposed project

## Class Diagram

**User**

**Seller**

**Buyer**

**Product**

*Recommendation System*

Recommends

Buys

Sells

<<Enumeration>>

**User State**

Connects

|  |
| --- |
| **User** |
| -ID  +Username  -Password  +Profile Picture #Name #Address #Contact No  +Logged in |
| +Login()  +Logout() |

|  |
| --- |
| <<Enumeration>>  **User State** |
| New Active Banned  Blocked |
|  |

Figure 2: Class Diagram of the proposed project

1

1

Connects

0..\*

Buys

0..\*

0..\*

Sells

0..\*

Recommends

*-Recommendproduct()*

+ID

+Name

+Description

+Picture

+Type

+Added by

+Date Adder

+Price

*Recommendation System*

**Product**

+Buyitem()

+Confirm Order()

+Cancel Order()

+Sellitem()

+Remove\_item()

**Buyer**

**Seller**