**Summary of Project**

**Project Name:**

**Connect Em**

**“Let’s Get Connected”**

**Instructor:**

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**Group Members:**

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**Summary:**

**Connect Em:**

Connect Em is an app that provide the user a platform that one can easily connect with another friend just after logging in the page for which one has to create ID from Signup Option, in which a new window form will pop up and one has to fill it to get benefit from Connect Em features.

**Features:**

The features of Connect Em are as follows:

One can easily use the features which are given below:

1. Chat
2. Friend List
3. Add Friend
4. Remove Friend

**Chat:**

In the chat, user can easily chat with his friend.

(Make sure to enter the port of sender and friend to start the chat program. For example: if you enter 1 in your port and 2 in friend’s port, your friend has to enter 2 in his port and 1 in his friend’s port).

**Friends List:**

In the Friend List user, can see the name of his/her friends

**Add Friend:**

It provides user to Add his friend easily to get connected.

**Remove Friend:**

User can easily remove anyone from his friend list.

**Serialization:**

**“The process of converting an object into a stream of bytes to store the object or transmit it to memory, a database, or a file is called Serialization”**

In Connect Em, we used Serialization to store huge information of user in one file that can easily accessible. Its main purpose is to save the state of an object in order to be able to recreate it when needed.

**Deserialization:**

The reverse process of Serialization is called

“**Deserialization**”

**Friendship Graph:**

In Connect Em we used a friendship graph in this way that, users are considered to be the vertices and if they are friends then there is an edge between them. In the backend of the graph we are using **Adjacent List**.