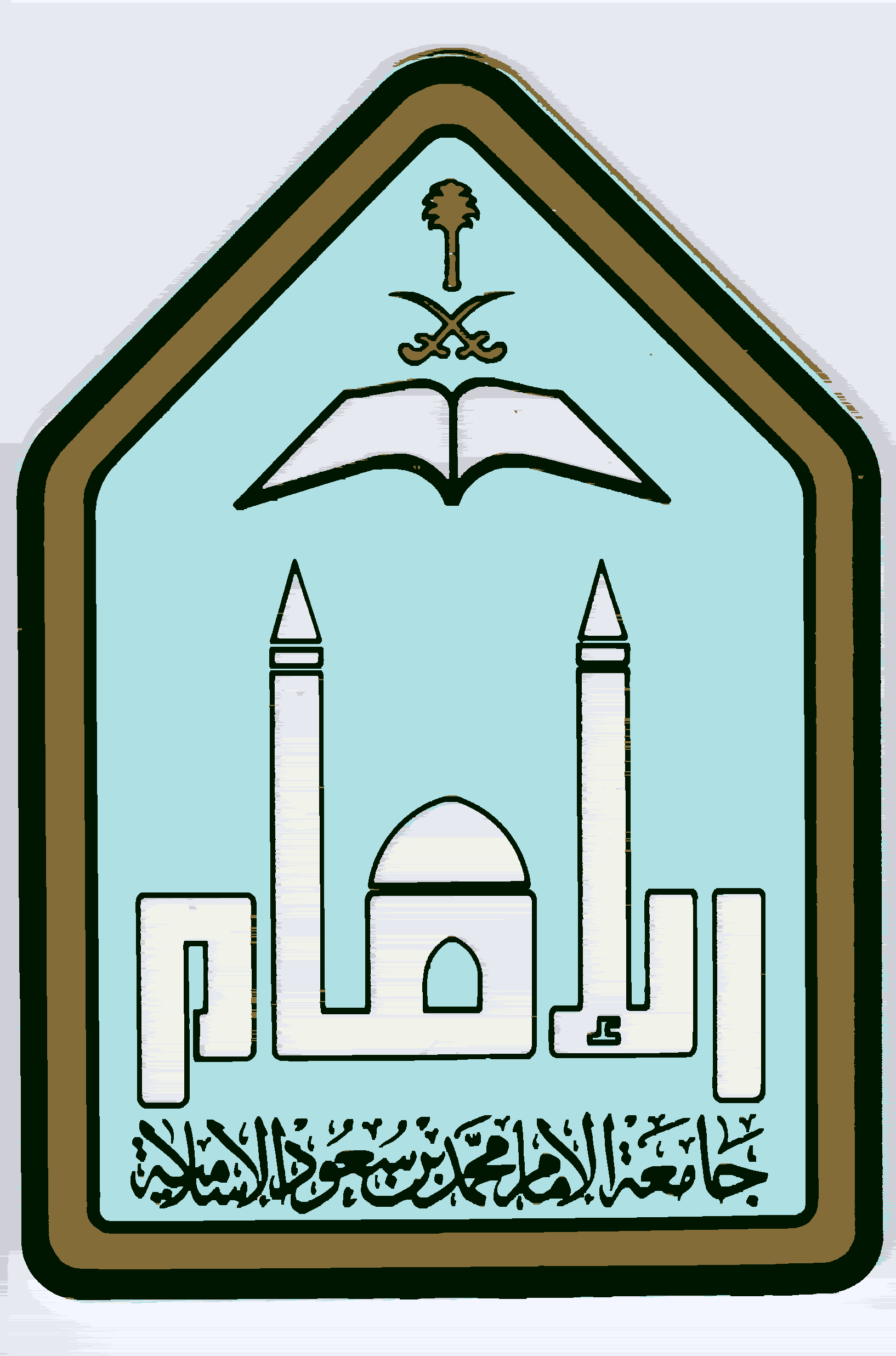
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**CS330–Computer Networks Project**

**TCP-based client server application**

**Students Names:**

Name#1 – Id#1

Name#2 – Id#2

Name#3 – Id#3

Name#4 – Id#4

**Section:** ###

Date of Submission

**1-Setting up the Programming Environment**

We choose the java language because we have knowledge and experience of it.

**We use the following libraries:**

1- java.net: which is provide the classes necessary to create an applet and to run the programs on the network.

2- java.io: which is provide a set of input streams and a set of output streams used to read and write data to files or other input and output services.

3- java.util.Scanner: which is provide to user entering data, then receive user input and parse them into into primitive data types.

**2-Steps for TCP socket programming for client-server connection**

We use java socket programming (Socket s = new Socket ("localhost", 3333)), to implement the

client-server communication over TCP protocol.

We use this cite (<https://www.geeksforgeeks.org/>) for our reference.

**3-Steps for setting up the network**

**4- Codes and comments:**

**Code of server side:**

**Provide a screenshot of the code as it appears in the programming environment.**

**Make sure the code and comments are readable.**

**Code for client side:**

**Provide a screenshot of the code as it appears in the programming environment.**

**Make sure the code and comments are readable.**

**5- Snapshots of the application outputs.**

**Provide a screenshot of the output as it appears in the programming environment.**

**Make sure the output is readable.**

1. **Problems and solutions:**

**This is the most important section of the report. Describe all the problems and challenges you faced in completing the project and cite any resources you used to solve the problems. If you leave this section empty then you are suggesting that you did not complete the project yourself. It is expected that any undergraduate student undertaking this project will face a number of technical and/or programming challenges.**

**Problem 1:**

**Solution:**

**Problem 2:**

**Solution:**

**Problem 3:**

**Solution:**

**Problem 4:**

**Solution:**

**References:**

**List any resources, you used to complete the project, in the order they appear in the report**

[1]

[2]

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