## National University of Computer and Emerging Sciences



# **Laboratory Manuals** *for* **Computer Networks - Lab**

(CL -3001)

Department of Computer Science FAST-NU, Lahore, Pakistan

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Lab Manual 09

**Objective:** TCP Multi-threading using threads.

### In lab Statement: (20) ONLINE VOTING SYSTEM

You are to devise an online vote casting system using **TCP** multithreaded server-client program. The voters will log on from client systems and cast their votes. Note that

#### One client can cast a vote ONCE AND ONLY ONCE.

A list of registered voters is available in a text file in the following format:

#### Name/CNIC number

System should be secure and should only allow clients with authentic name and CNIC to cast the vote.

#### The Server shall

- First of all take the client's name and CNIC and match it with the content of the text file (Voters\_List.txt).
- If the details match, then it will welcome the voter and display the names and poll symbols of the candidates on the terminal.(Candidates\_List.txt) The voter will then cast the vote by MENTIONING THE POLL SYMBOL (not the name) OF THE CANDIDATE. All these details are to be recorded in an output text file.
- This system should work perfectly for at least 5 different clients. Page 2 of 3