**NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES- FAST**

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**NETWORK DESIGN OF HOTEL MANAGEMENT SYSTEM & CERTIFICATE AUTOMATION CODE(for SMTP Protocol Demo)**

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**COMPUTER NETWORKS PROJECT**

**SECTION: C**

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# ABSTRACT:

This report describes the network design of a hotel management system. The network design has been made and simulated on Cisco Packet Tracer. The network topology is consisting of different departments. The devices used in this network design are:

* Routers
* Switches
* Servers for DNS,HTTP,FTP

There are following departments in the design:

* Food Quality
* Security
* Operations department
* Accounts
* Main Lobby (The reception which have access to all departments)

# NETWORK REQUIREMENTS:

In hotel, we are working on different departments and those departments have different end devices such as desktops, laptops and phone. There will be a data flow between the devices within the system. A DNS and http server is needed to access the website of our hotel from all departments. The file server is needed so that every department have a shared server which can be used to get and put files on that server. And, VOIP is needed for phone call system.

# FEATURES AND SERVICES (THAT WERE READY IN FIRST EVALUATION):

* FTP
* DNS
* Telnet

# DELIVERABLES (THAT ARE TO BE PRESENTED IN FINAL EVALUATION):

* DHCP
* HTTP
* Routing by RIP V2

We will also be showing a certificate and email automation code to give a demo of SMPT protocol(this would be an independent code and kind of a mini project)

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