



NETWORK OF A COMPANY

Computer network project

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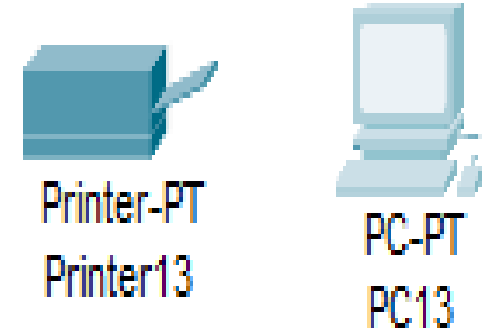
FUNCTIONALITY'S

Requirements by company

- Ground Floor:
 - Reception Room
 - CEO Room
 - Meeting Room
- First Floor
 - Floor Manager Room
 - Product Marketing Department
 - IT Department
 - Finance and HR Department
 - Server Room
- Second Floor
 - Floor Manager Room
 - Product Quality Department
 - Operation Department

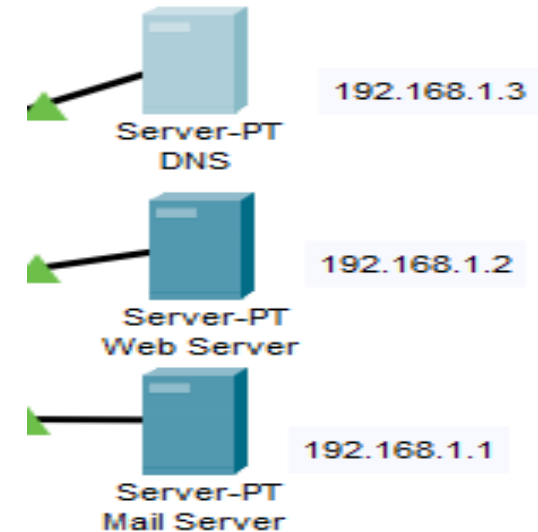
REQUIREMENTS OF THE NETWORK

- **Ground Floor:** This floor has 3 departments:
 - Reception Room
 - 1 computer and 1 Printer.
 - CEO Room
 - 1 computer and printer.
 - Meeting Room
 - 1 computer and 1 printer.



REQUIREMENTS OF THE NETWORK

- **First Floor** First Floor is the main floor of our building and it has 5 departments.
- Floor Manager Room → 1 Computer and 1 Printer.
- Product Marketing Department → 2 Computer and 2 Printer.
- IT Department → 2 Computers and 2 Printers.
- Finance and HR Department → 2 Computers and 2 Printers.
- Server Room → 1 Computer and 1 Printer.
- DNS server
- Mail server
- Web Server



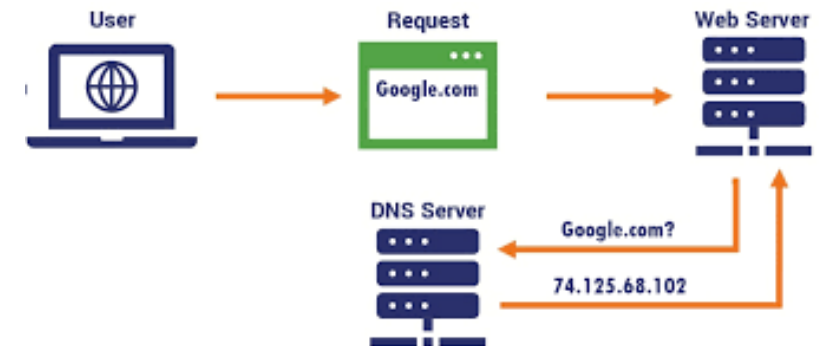
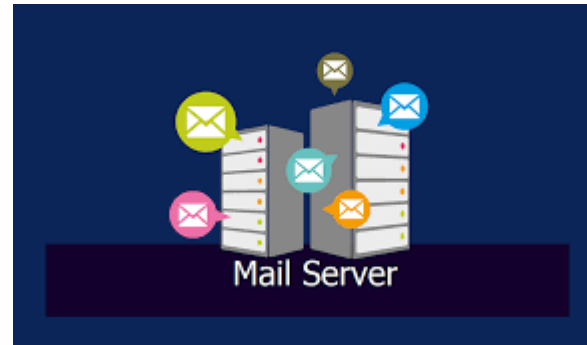
REQUIREMENTS OF THE NETWORK

Second Floor:

- Floor Manager Room
 - 1 Computer and 1 Printer.
- Product Quality Department
 - 2 Computers and 2 Printers.
- Operation Department
 - 1 Computer and 1 Printer.

DEVICES USED IN THIS NETWORK:

- Computers
- Printers
- Wires to Connect network
- Switches
- Servers
- Router



IP Assignment To computer connection to Switch 1.

<i>Computers</i>	<i>Printers</i>	<i>Default Gateway</i>
192.168.3.5	192.168.3.7	192.168.3.6
192.168.3.1	192.168.3.3	192.168.3.6
192.168.3.4	192.168.3.2	192.168.3.6

IP Assignment To computer connection to Switch 2.

<i>PC</i>	<i>Printer</i>	<i>Default Gateway</i>
192.168.1.7	192.168.1.8	192.168.1.20
192.168.1.9	192.168.1.10	192.168.1.20
192.168.1.11	192.168.1.12	192.168.1.20
192.168.1.13	192.168.1.14	192.168.1.20
192.168.1.15	192.168.1.16	192.168.1.20
192.168.1.17	192.168.1.18	192.168.1.20



<i>PC</i>	<i>Printer</i>	<i>Servers</i>	<i>Ip address</i>
192.168.1.4	192.168.1.5	DNS	192.168.1.3
		Web Server	192.168.1.2
		Mail Server	192.168.1.1



IP Assignment To computer connection to Switch 2.

<i>PC</i>	<i>Printer</i>	<i>Default Gateway</i>
192.168.2.1	192.168.2.2	192.168.2.8
192.168.2.3	192.168.2.4	192.168.2.8
192.168.2.5	192.168.2.6	192.168.2.8
192.168.2.7	192.168.2.9	192.168.2.8

A person wearing a dark cap and glasses is seated at a wooden table, working on a laptop. The laptop screen displays a code editor with a dark background and light-colored text. The person is holding a smartphone in their left hand. The background is a blurred night scene with city lights and a bridge structure, suggesting an urban setting. The overall lighting is dim, with the primary light source being the laptop screen and the ambient city lights.

NOW THE DESIGN OF THE
NETWORK....