**Task: Dormitory Network Configuration Using Config Interface**

**Task 1: As a Student, Configure the Router**

1. **Add the Router to the Topology**:
   * Enter the **dormitory** in the **physical topology**, and click on the **Main Wiring Closet**. Select a **Home Router** from the “Network Devices” and “Wireless Devices” panel.
   * Drag the router into the workspace and put it on the table. Then back to the dormitory room.
2. **Connect the PC to the Router**:
   * Use a **Copper Straight-Through** cable to connect the **PC**’s **FastEthernet0** port to the router’s **GigabitEthernet 1** port.
3. **Configure the Router**:
   * Find the router that you add just now. **Click the router** to open the configuration page.
   * Go to the **Config tab**, select Wireless 2.4G, and configure the SSID:
     + **SSID**: Dorm\_WiFi
     + **Authentication**: WPA2-PSK
     + **Password**: dormwifi123
4. **Configure the Laptop’s Wireless Connection**:
   * **Click the Laptop**, go to the Desktop tab, and open PC Wireless.
   * Click Connect, select the SSID Dorm\_WiFi, and enter the password dormwifi.
   * In the command prompt, type ipconfig to check if the laptop has received an IP address.

**Task 2: As an Admin, Configure VLAN 10 and VLAN 20 on the Dormitory Office Switch**

Since the hardware is already connected, and you are using the **Config tab**, follow these steps:

1. **Open the Switch Configuration**:
   * Enter the **hall office** in the **logical Topology. Click the hall Switch** to open the configuration window.
   * Go to the **Config** tab, and from the left panel, select **VLAN Database** under "SWITCHING".
2. **Create VLAN 10 and VLAN 20**:
   * In the **VLAN Configuration** section:
     + **VLAN Number**: Enter 10.
     + **VLAN Name**: Enter Dorm\_Student (for student dormitory).
     + Click the Add button to create VLAN 10.
     + Repeat the process for VLAN 20:
       - **VLAN Number**: 20
       - **VLAN Name**: Hall\_office (for public areas).
       - Click Add to create VLAN 20.
3. **Assign VLANs to Switch Ports**:
   * From the **Config** tab, select **INTERFACE** (e.g., FastEthernet0/1 or FastEthernet0/2).
   * In the **VLAN** field:
     + For **FastEthernet0/1**, select VLAN 10 from the dropdown (for student dormitory devices).
     + For **FastEthernet0/2**, select VLAN 20 from the dropdown (for office devices).
   * Ensure the **Port Status** is set to **On** for each port.
4. **Verify VLAN Assignments**:
   * Under the **VLAN Database**, verify that both VLAN 10 (Dorm\_Student) and VLAN 20 (Dorm\_Public) appear in the list, and that the correct ports are assigned.
5. **Test VLAN Isolation**:
   * Ensure that devices connected to **VLAN 10** (student dormitory) can communicate with each other but are isolated from **VLAN 20** (public area) devices.
   * You can test this by using the ping command between devices on different VLANs.