

## ДОДАТОК А

### Представлення інтерфейсу вебзастосунку

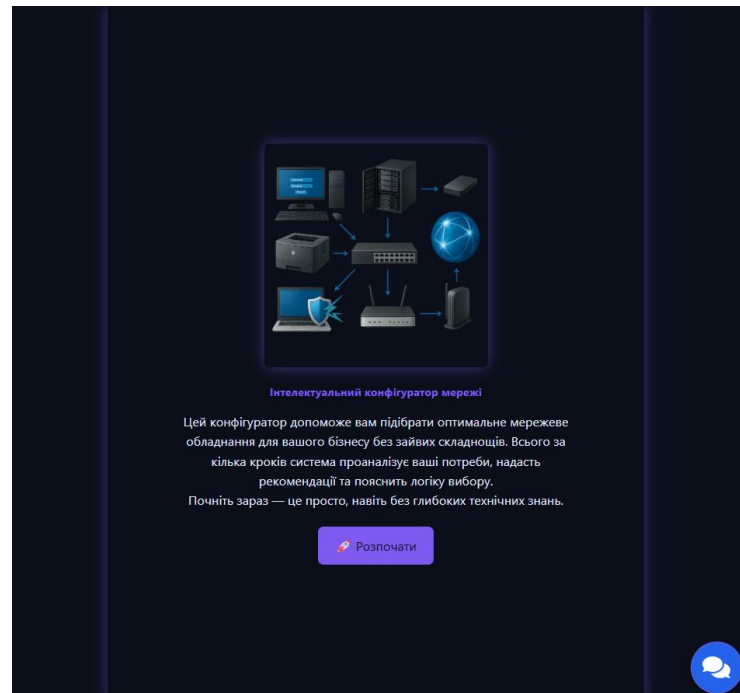


Рисунок А.1 – Інтерфейс WelcomePage

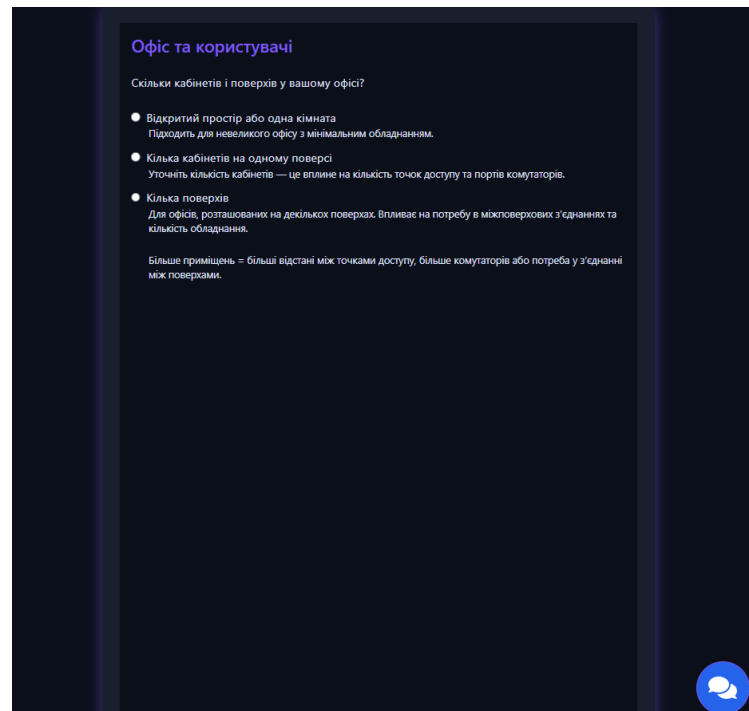


Рисунок А.2 – Інтерфейс OfficeStep

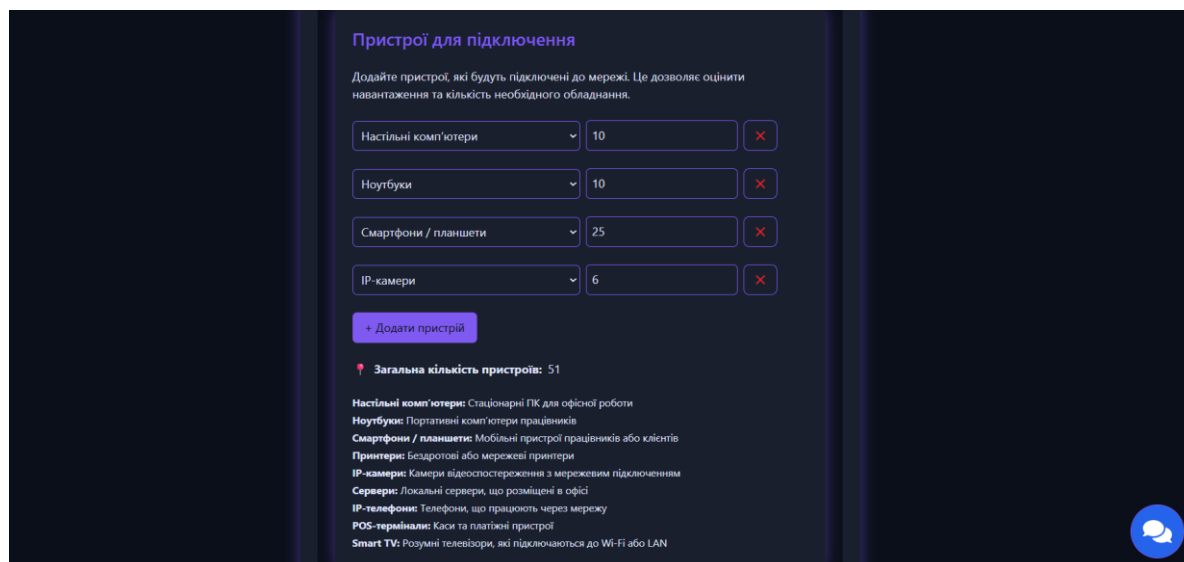


Рисунок А.3 – Інтерфейс DeviceStep

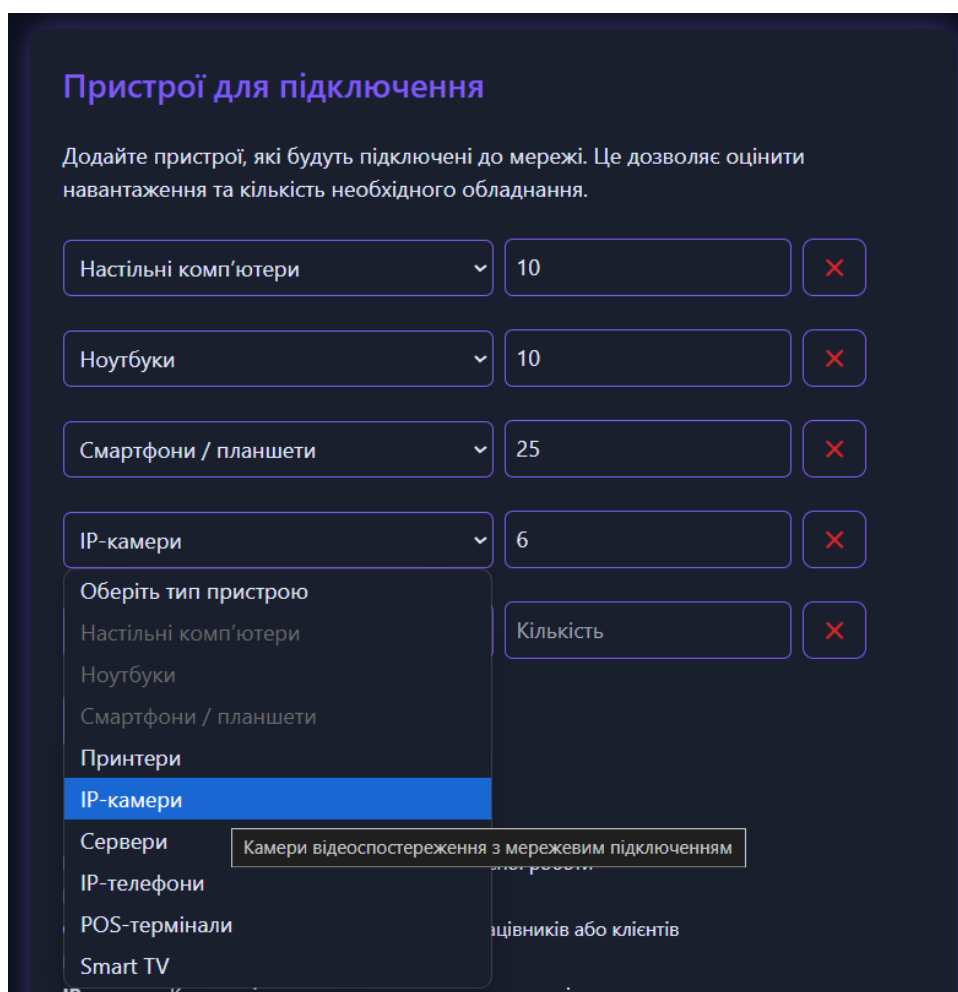


Рисунок А.4 – Інтерактивні підказки DeviceStep

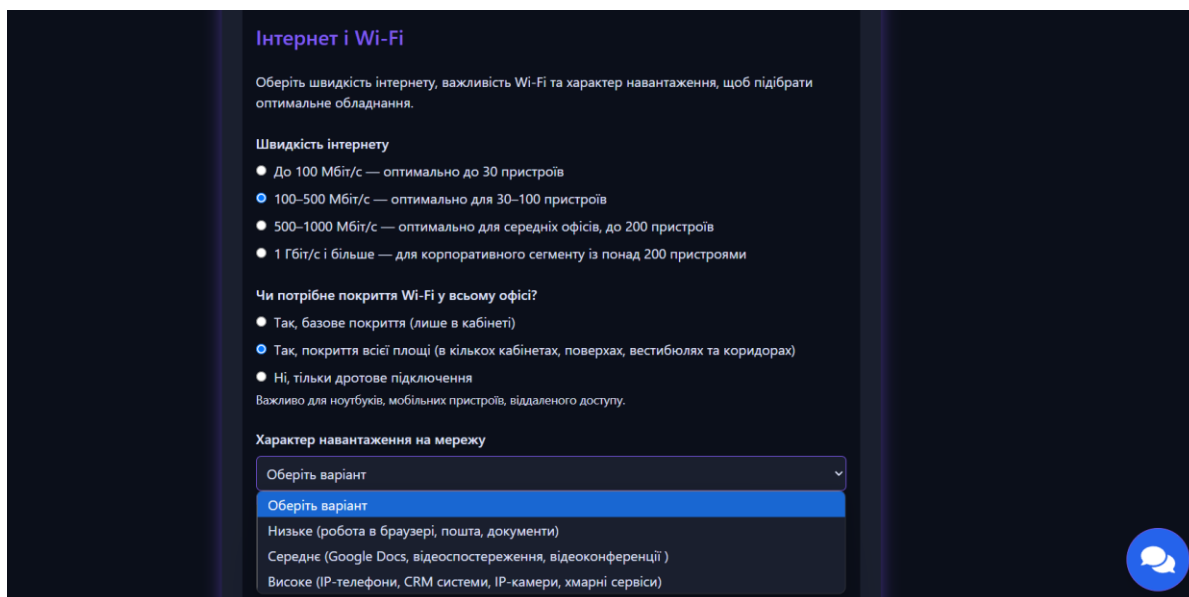


Рисунок А.5 – Інтерфейс InternetStep

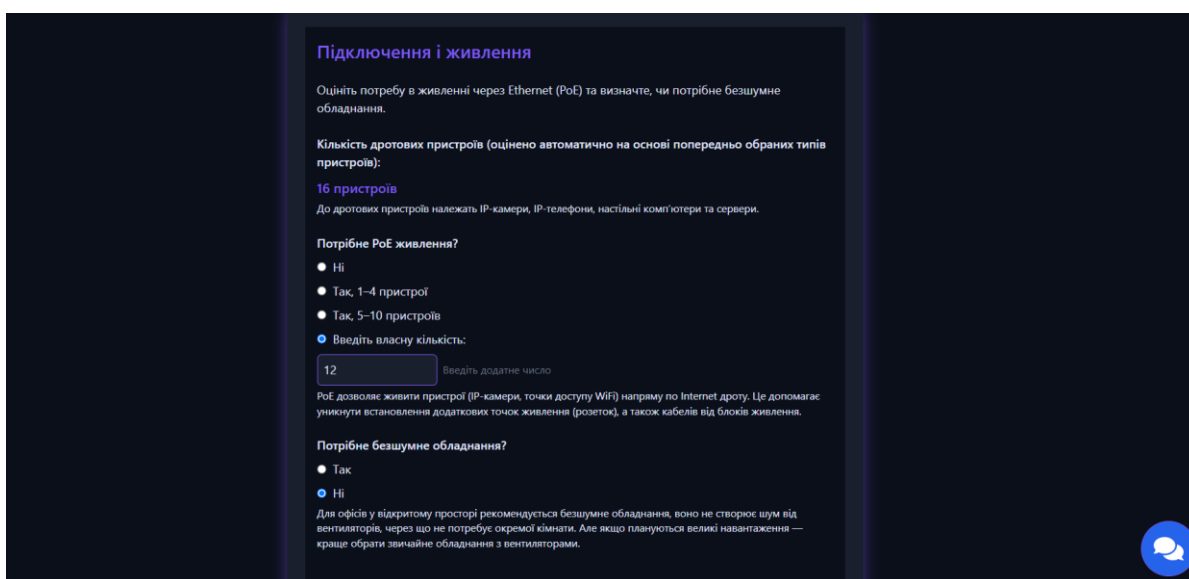


Рисунок А.6 – Інтерфейс ConnectionStep

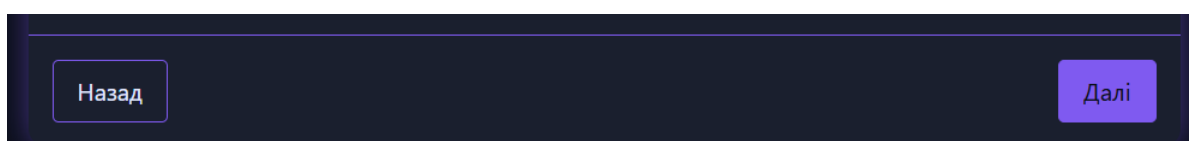


Рисунок А.7 – Навігація між елементами конфігуратора

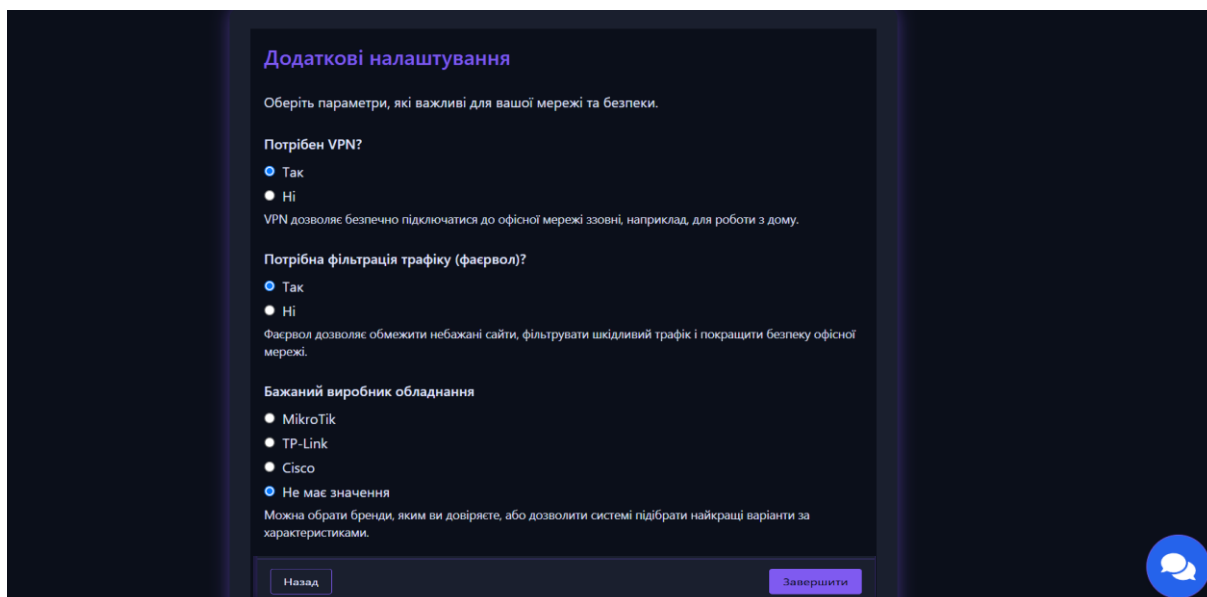


Рисунок А.8 – Інтерфейс ExtrasStep

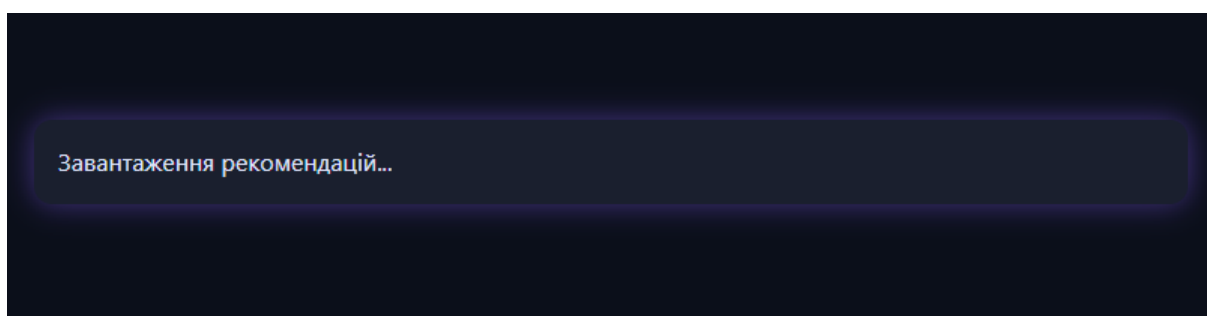


Рисунок А.9 – Вікно завантаження рекомендацій

## ДОДАТОК Б

### Програмний код правил підбору пристроїв

#### Лістинг Б.1 – Програмний код правил підбору пристроїв

```
def filter_device(vendor: str, device_type: str, tier:
str) -> Dict:
    for device in equipment_data:
        if (
            device["vendor"] == vendor and
            device["type"] == device_type and
            device["tier"] == tier
        ):
            return device
    return None

def generate_recommendations(user_vendor: str) ->
Dict[str, List[Dict]]:
    result = {
        "basic": [],
        "balanced": [],
        "pro": []
    }

    if user_vendor == "any":
        # === BASIC – 3 комбінації ===
        result["basic"].append({
            "router": filter_device("Mikrotik", "router",
"basic"),
            "switch": filter_device("TpLink", "switch",
"basic"),
            "access_point": filter_device("TpLink",
"access_point", "basic")
        })
        result["basic"].append({
```

```

        "router": filter_device("Cisco", "router",
"basic"),
        "switch": filter_device("TpLink", "switch",
"basic"),
        "access_point": filter_device("TpLink",
"access_point", "basic")
    })
    result["basic"].append({
        "router": filter_device("TpLink", "router",
"basic"),
        "switch": filter_device("TpLink", "switch",
"basic"),
        "access_point": filter_device("TpLink",
"access_point", "basic")
    })

    # === BALANCED / PRO - Mikrotik + Cisco
    for brand in ["Mikrotik", "Cisco"]:
        result["balanced"].append({
            "router": filter_device(brand, "router",
"balanced"),
            "switch": filter_device(brand, "switch",
"balanced"),
            "access_point": filter_device(brand,
"access_point", "balanced")
        })
        result["pro"].append({
            "router": filter_device(brand, "router",
"pro"),
            "switch": filter_device(brand, "switch",
"pro"),
            "access_point": filter_device(brand,
"access_point", "pro")
        })

    elif user_vendor == "TP-Link":

```

```
# === ТІЛЬКИ 1 BASIC, інше не показується ===
result["basic"].append({
    "router": filter_device("TpLink", "router",
"basic"),
    "switch": filter_device("TpLink", "switch",
"basic"),
    "access_point": filter_device("TpLink",
"access_point", "basic")
})
# balanced/pro залишаються порожніми

elif user_vendor == "MikroTik":
    result["basic"].append({
        "router": filter_device("Mikrotik", "router",
"basic"),
        "switch": filter_device("Mikrotik", "switch",
"basic"),
        "access_point": filter_device("Mikrotik",
"access_point", "basic")
    })
    result["balanced"].append({
        "router": filter_device("Mikrotik", "router",
"balanced"),
        "switch": filter_device("Mikrotik", "switch",
"balanced"),
        "access_point": filter_device("Mikrotik",
"access_point", "balanced")
    })
    result["pro"].append({
        "router": filter_device("Mikrotik", "router",
"pro"),
        "switch": filter_device("Mikrotik", "switch",
"pro"),
        "access_point": filter_device("Mikrotik",
"access_point", "pro")
    })
```

```
elif user_vendor == "Cisco":
    result["basic"].append({
        "router": filter_device("Cisco", "router",
"basic"),
        "switch": filter_device("Cisco", "switch",
"basic"),
        "access_point": filter_device("Cisco",
"access_point", "basic")
    })
    result["balanced"].append({
        "router": filter_device("Cisco", "router",
"balanced"),
        "switch": filter_device("Cisco", "switch",
"balanced"),
        "access_point": filter_device("Cisco",
"access_point", "balanced")
    })
    result["pro"].append({
        "router": filter_device("Cisco", "router",
"pro"),
        "switch": filter_device("Cisco", "switch",
"pro"),
        "access_point": filter_device("Cisco",
"access_point", "pro")
    })

return result
```

