

# Projeto interdisciplinar

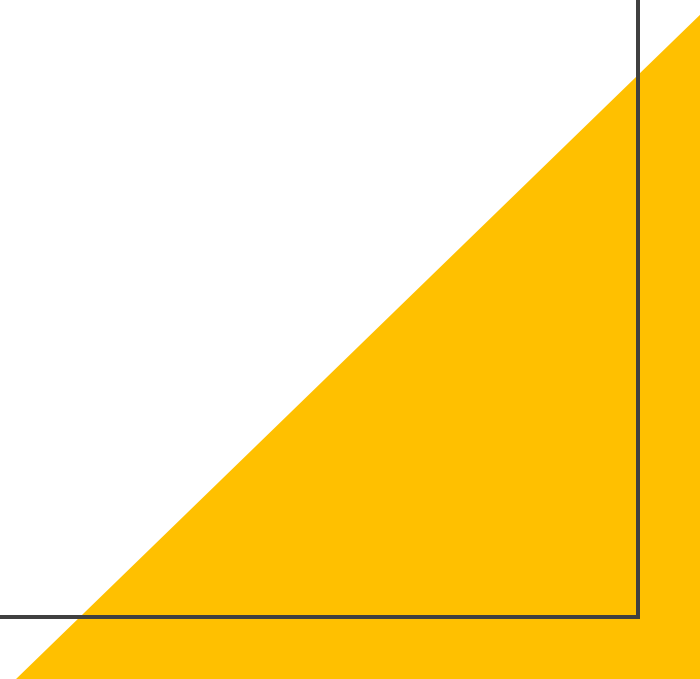
## Módulo 16

Trabalho realizado por : Marco Henriques e André Custódio

# Estrutura de apresentação

- Introdução
- Objetivos
- Cronograma inicial
- Redes
- SGBD
- Diagrama
- Website
- Aplicação Admin
- Cronograma final
- Conclusão
- Web grafia

# Introdução



# Objetivos

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Criar um site de gestão em ASP.NET para gerir funcionários, produtos e encomendas.

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Encriptar palavras-chave com o RSA no C#;

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Desenvolver uma base de dados em SQL server.

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Criar uma rede para os dois edifícios da empresa Veste Bem.

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Criar uma rede virtual para interligar os dois edifícios.

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Desenvolver com recurso ao Cisco Packet Tracer o diagrama da rede.

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Atribuir os IPs a cada ponto de rede.

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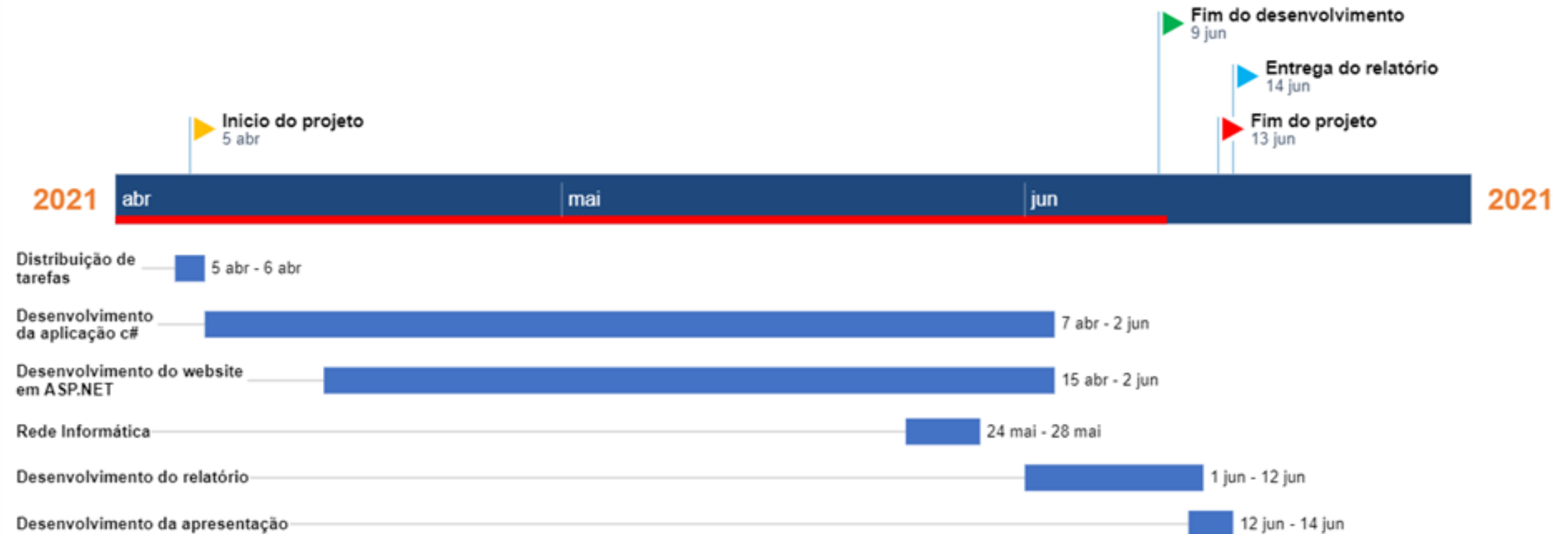
Criar Vlans entre os departamentos da sede de Secção de Vendas e a Direção.

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Estabelecer a ligação entre a sede e a sucursal de setúbal.

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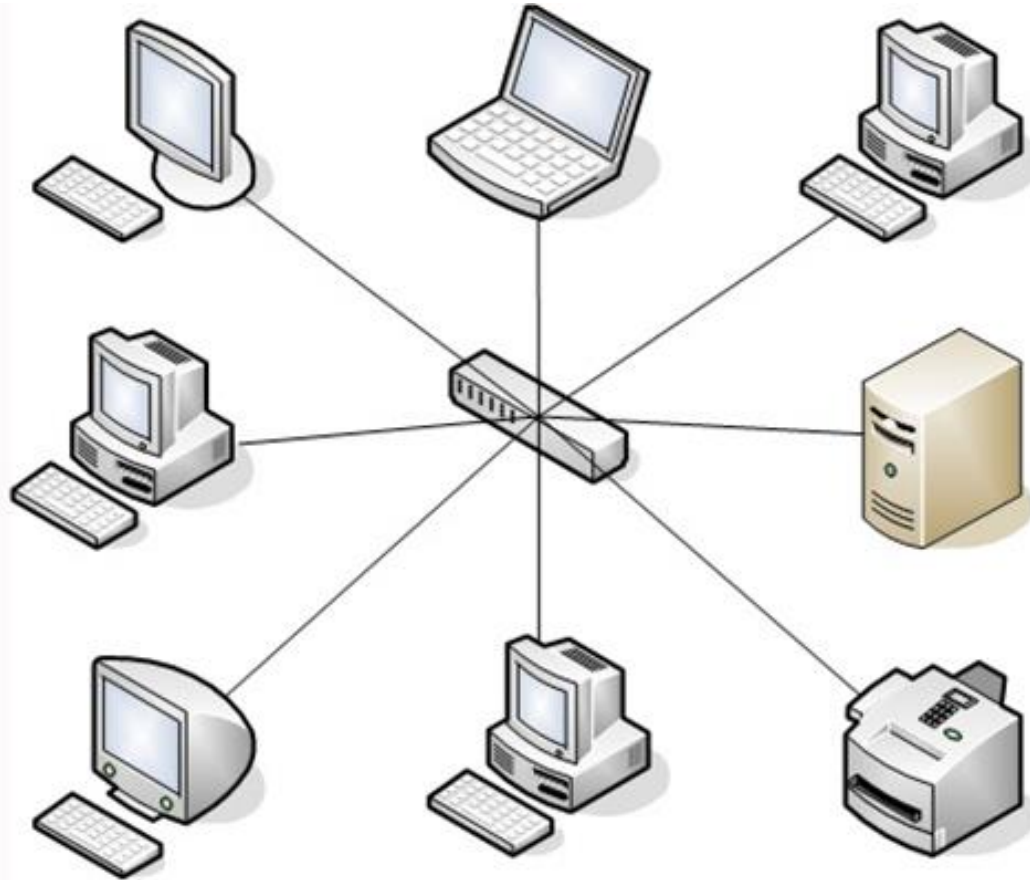
# Cronograma inicial





# Redes

## Topologia adotada - Estrela



### Vantagens:

1. Limita o impacto de falhas
2. Gestão centralizada
3. Maior desempenho e segurança

### Desvantagens:

1. Maior custo
2. Dependência do dispositivo central

| Sta Maria da Feira |              |             |               |               |             |
|--------------------|--------------|-------------|---------------|---------------|-------------|
| Tabela de Ip's     |              |             |               |               |             |
| Computador         | Ip           | Ip Inicial  | Ip Final      | Broadcast     | Gateway     |
| Vendas-1           | 192.168.2.25 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Vendas-2           | 192.168.2.13 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Vendas-3           | 192.168.2.26 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Vendas-4           | 192.168.2.12 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Armazem/Fábrica-1  | 192.168.2.16 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Armazem/Fábrica-2  | 192.168.2.23 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Armazem/Fábrica-3  | 192.168.2.22 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Armazem/Fábrica-4  | 192.168.2.14 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Armazem/Fábrica-5  | 192.168.2.21 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-1   | 192.168.2.37 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-2   | 192.168.2.38 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-3   | 192.168.2.32 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-4   | 192.168.2.9  | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-5   | 192.168.2.41 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-6   | 192.168.2.5  | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Informatica/RH-7   | 192.168.2.28 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-1          | 192.168.2.17 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-2          | 192.168.2.6  | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-3          | 192.168.2.33 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-4          | 192.168.2.34 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-5          | 192.168.2.11 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Direção-6          | 192.168.2.10 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-1         | 192.168.2.7  | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-2         | 192.168.2.29 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-3         | 192.168.2.31 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-4         | 192.168.2.27 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-5         | 192.168.2.15 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-6         | 192.168.2.19 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-7         | 192.168.2.18 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| comercio-8         | 192.168.2.30 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-1    | 192.168.2.20 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-2    | 192.168.2.35 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-3    | 192.168.2.8  | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-4    | 192.168.2.36 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-5    | 192.168.2.39 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |
| Administração-6    | 192.168.2.40 | 192.168.2.1 | 192.168.2.254 | 192.168.2.255 | 192.168.2.1 |

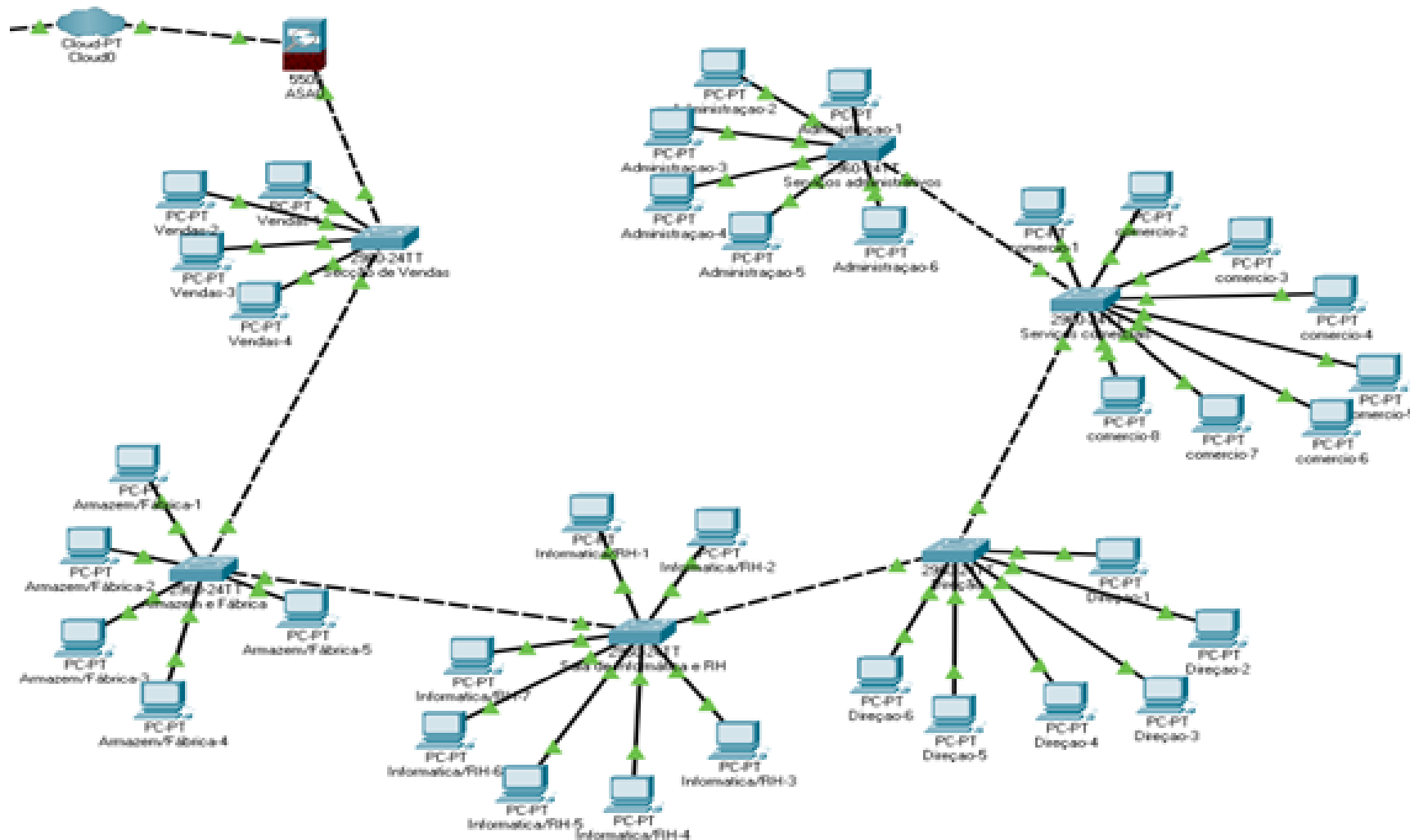
# Tabela de Ips Sta . Maria da Feira

| Setubal               |              |             |               |               |             |
|-----------------------|--------------|-------------|---------------|---------------|-------------|
| Tabela de Ip's        |              |             |               |               |             |
| Computador            | Ip           | Ip Inicial  | Ip final      | Broadcast     | Gateway     |
| Informatica/Direcao-1 | 192.168.1.60 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Informatica/Direcao-2 | 192.168.1.59 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Informatica/Direcao-3 | 192.168.1.72 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Informatica/Direcao-4 | 192.168.1.61 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-1          | 192.168.1.71 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-2          | 192.168.1.70 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-3          | 192.168.1.69 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-4          | 192.168.1.68 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-5          | 192.168.1.67 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-6          | 192.168.1.66 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-7          | 192.168.1.65 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Comerciais-8          | 192.168.1.64 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-1     | 192.168.1.62 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-2     | 192.168.1.58 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-3     | 192.168.1.57 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-4     | 192.168.1.56 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-5     | 192.168.1.55 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Administrativos-6     | 192.168.1.53 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Armazenamento-1       | 192.168.1.50 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Armazenamento-2       | 192.168.1.51 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |
| Armazenamento-3       | 192.168.1.52 | 192.168.1.1 | 192.168.1.254 | 192.168.1.255 | 192.168.1.1 |

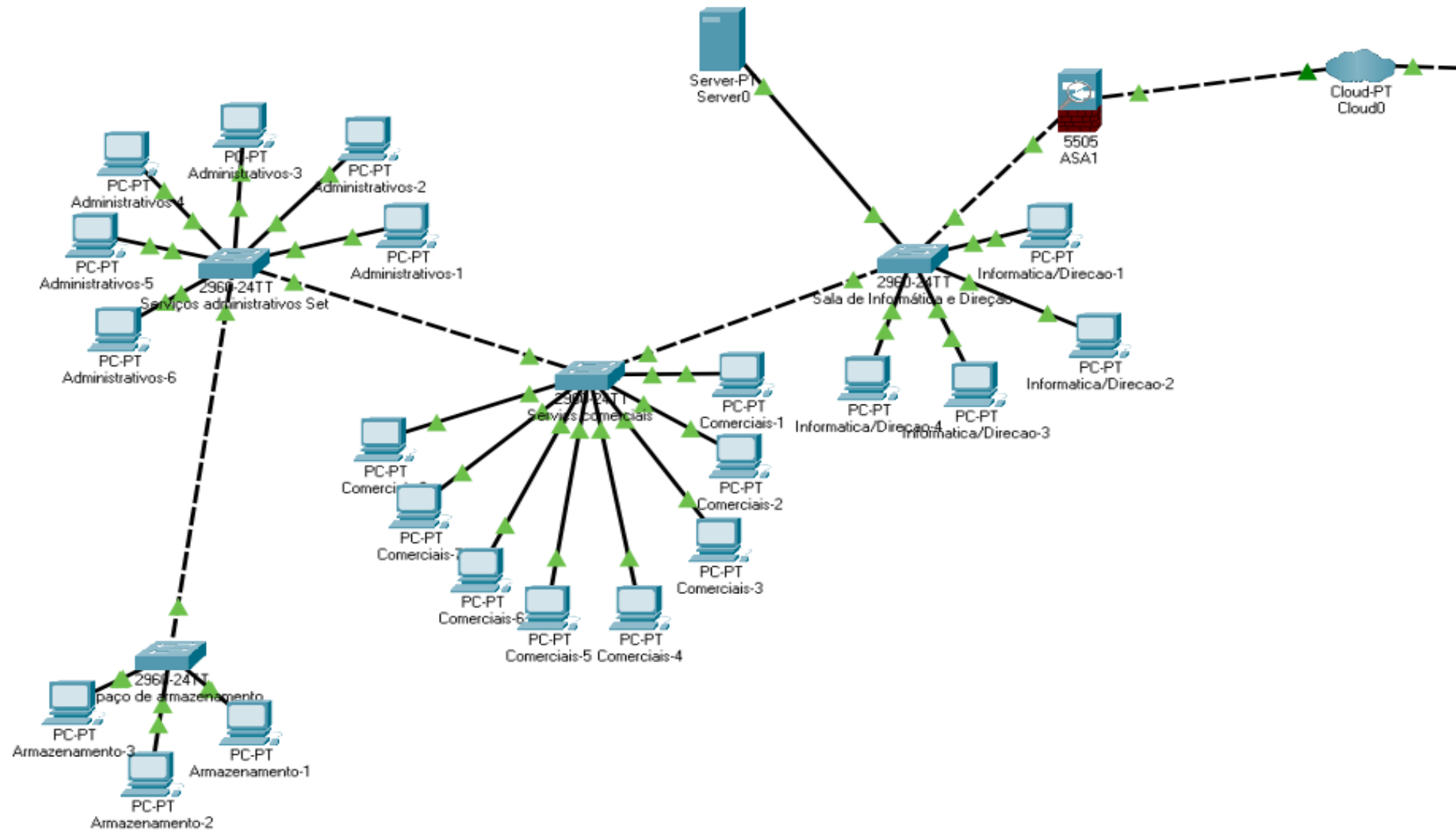
# Tabela de Ips Setúbal



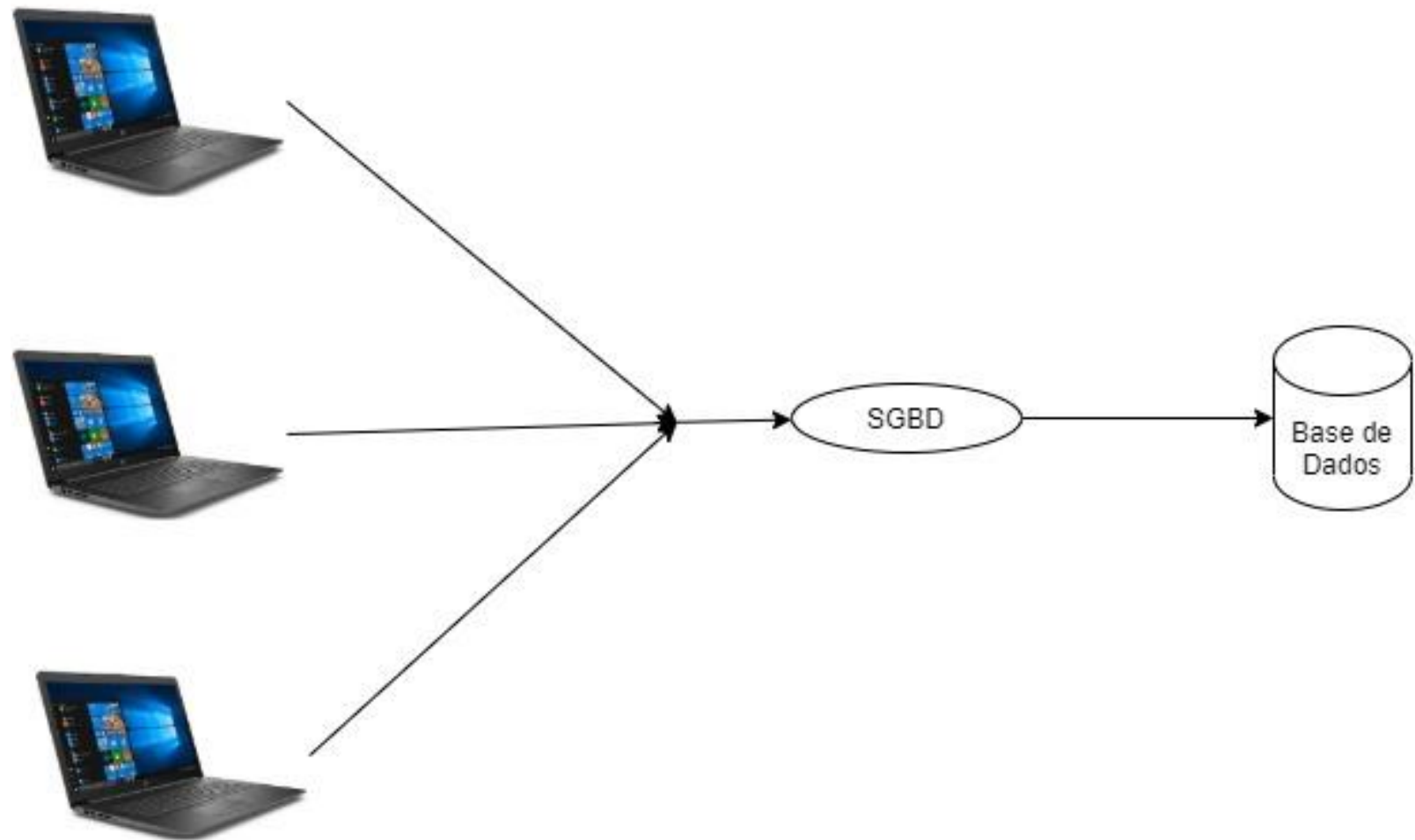
# Mapeamento da delegação de Sta. Maria da Feira



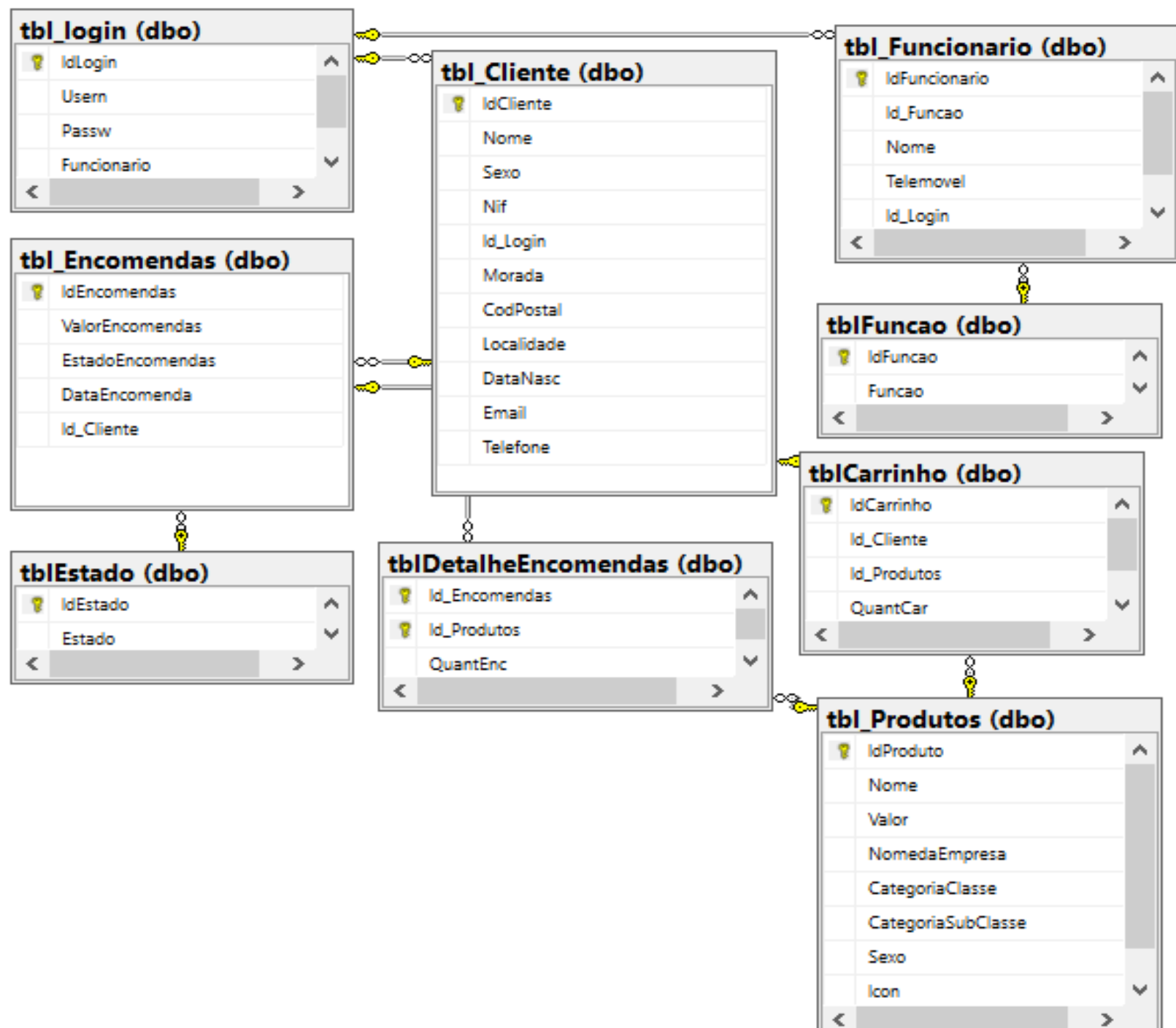
# Mapeamento da delegação de Setúbal



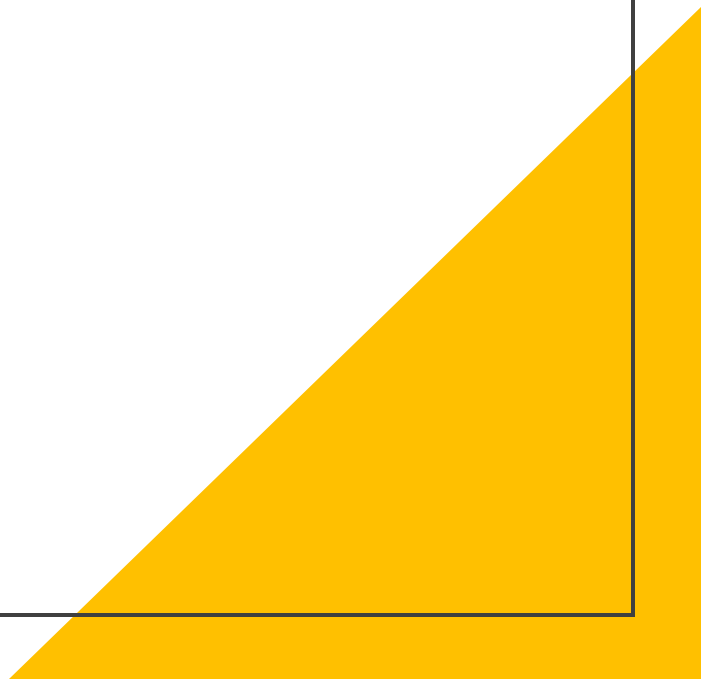
SGBD



# Diagrama




# Website





# Modal Login



**Username**

**Password**

**Login**

**Cancel**

[Nova Conta?](#)

# Modal Login (Source)

---

```
        <div id="id01" class="modal">
<div class="imgcontainer">
    <asp:Image runat="server" ImageUrl="~/Resources/avatar.png" alt="Avatar" class="avatar" Width="150px" />
</div>

<div class="container">
    <label for="uname"><b>Username</b></label>
    <input runat="server" type="text" placeholder="Enter Username" name="uname" id="uname">

    <label for="psw"><b>Password</b></label>
    <input runat="server" type="password" placeholder="Enter Password" name="psw" id="psw">

    <button runat="server" type="submit" id="Log" onclick="Log_Click">Login</button>
</div>

<div class="container" style="background-color:white">
    <button type="button" onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>
    <span class="psw">Nova <a href="RegistoCliente.aspx">Conta?</a></span>
</div>

    </div>
```

# Encriptação e desencriptação da password

---

```
public static string EncryptRSA(string strText)
{
    var publicKey = "<RSAKeyValue><Modulus>21wEnTU+mcD2w0Lfo1Gv4rtcSWsQJQ";

    var testData = Encoding.UTF8.GetBytes(strText);

    using (var rsa = new RSACryptoServiceProvider(1024))
    {
        try
        {
            // client encrypting data with public key issued by server
            rsa.FromXmlString(publicKey.ToString());

            var encryptedData = rsa.Encrypt(testData, true);

            var base64Encrypted = Convert.ToBase64String(encryptedData);

            return base64Encrypted;
        }
        finally
        {
            rsa.PersistKeyInCsp = false;
        }
    }
}
```

```
public static string DecryptRSA(string strText)
{
    var privateKey = "<RSAKeyValue><Modulus>21wEnTU+mcD2w0Lfo1Gv4rtcSWsQJQ";

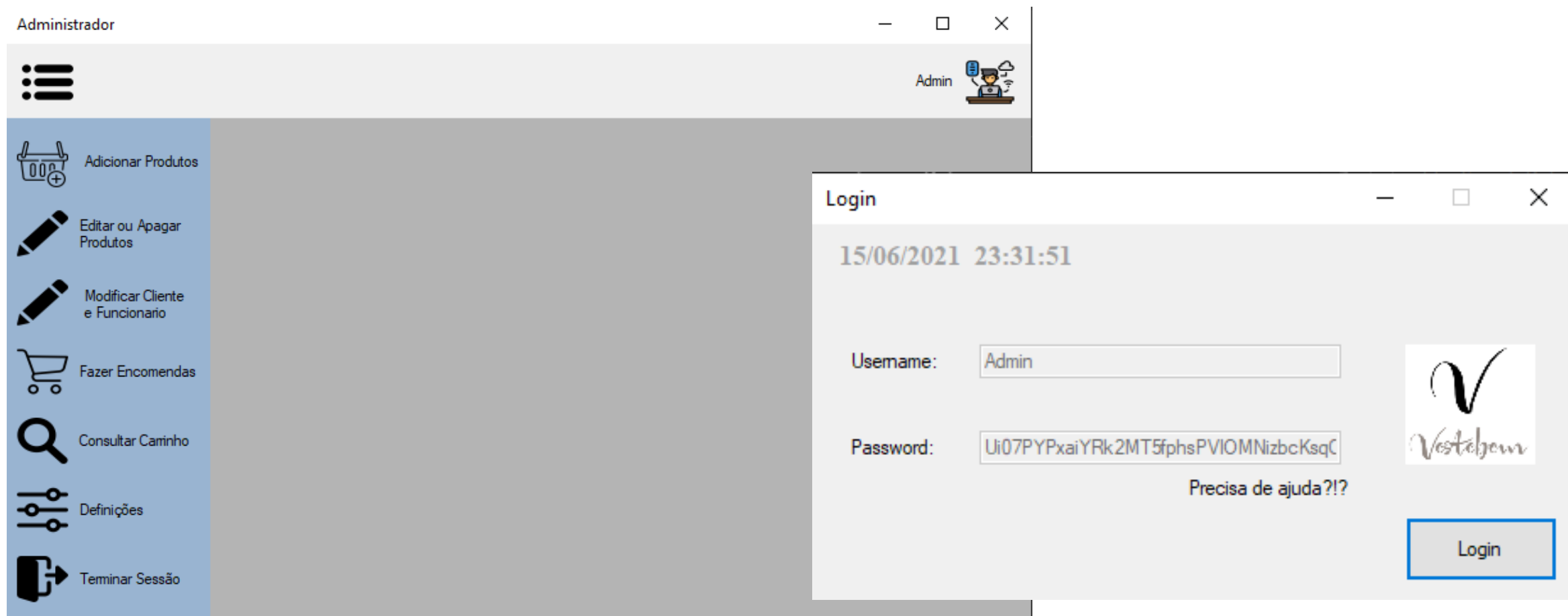
    var testData = Encoding.UTF8.GetBytes(strText);

    using (var rsa = new RSACryptoServiceProvider(1024))
    {
        try
        {
            var base64Encrypted = strText;

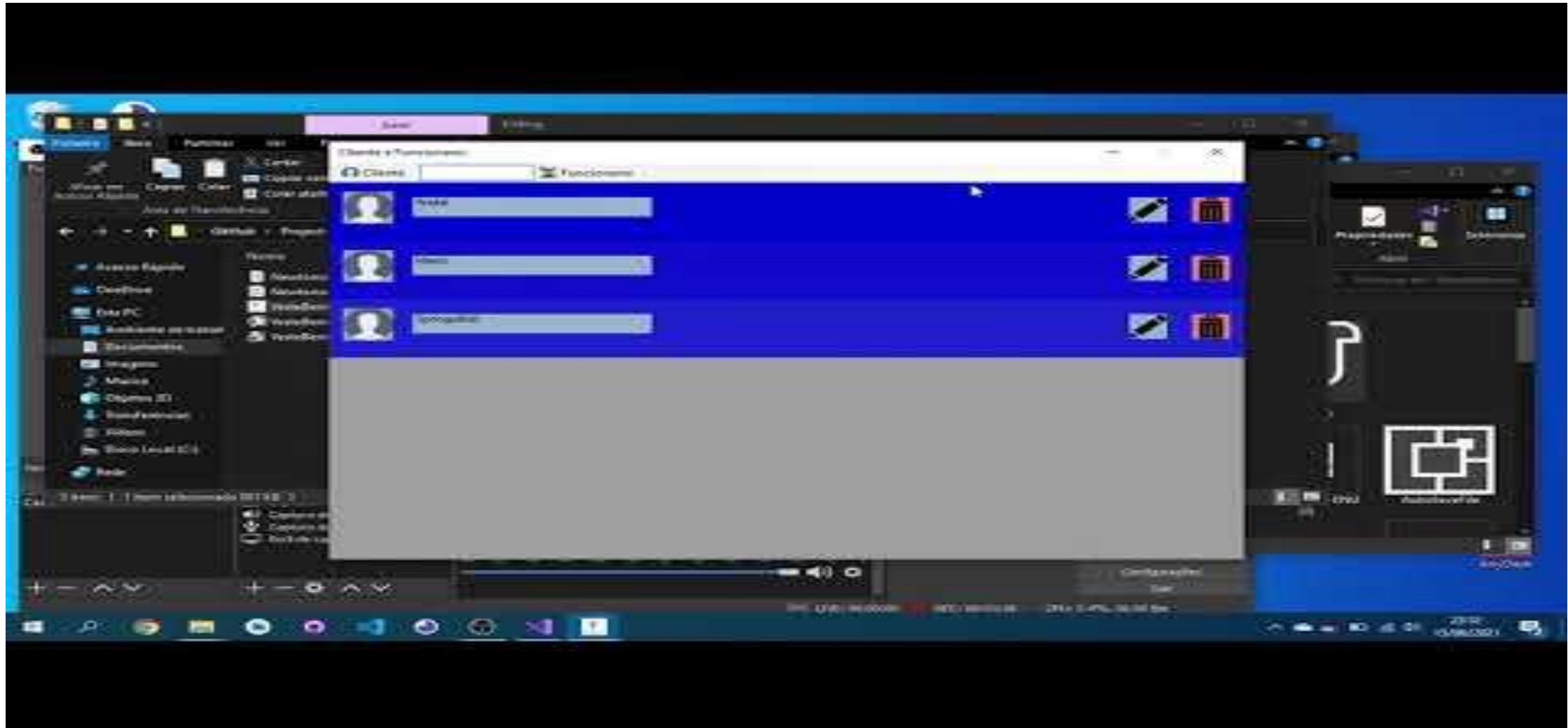
            // server decrypting data with private key
            rsa.FromXmlString(privateKey);

            var resultBytes = Convert.FromBase64String(base64Encrypted);
            var decryptedBytes = rsa.Decrypt(resultBytes, true);
            var decryptedData = Encoding.UTF8.GetString(decryptedBytes);
            return decryptedData.ToString();
        }
        finally
        {
            rsa.PersistKeyInCsp = false;
        }
    }
}
```

# Aplicação do Funcionário

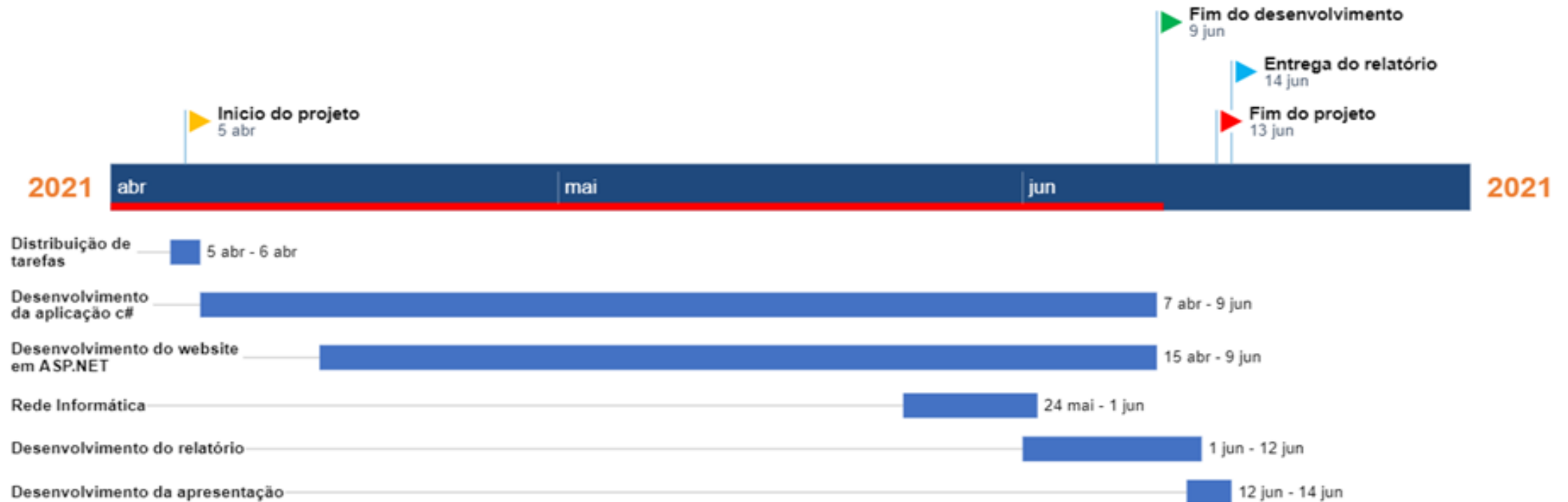


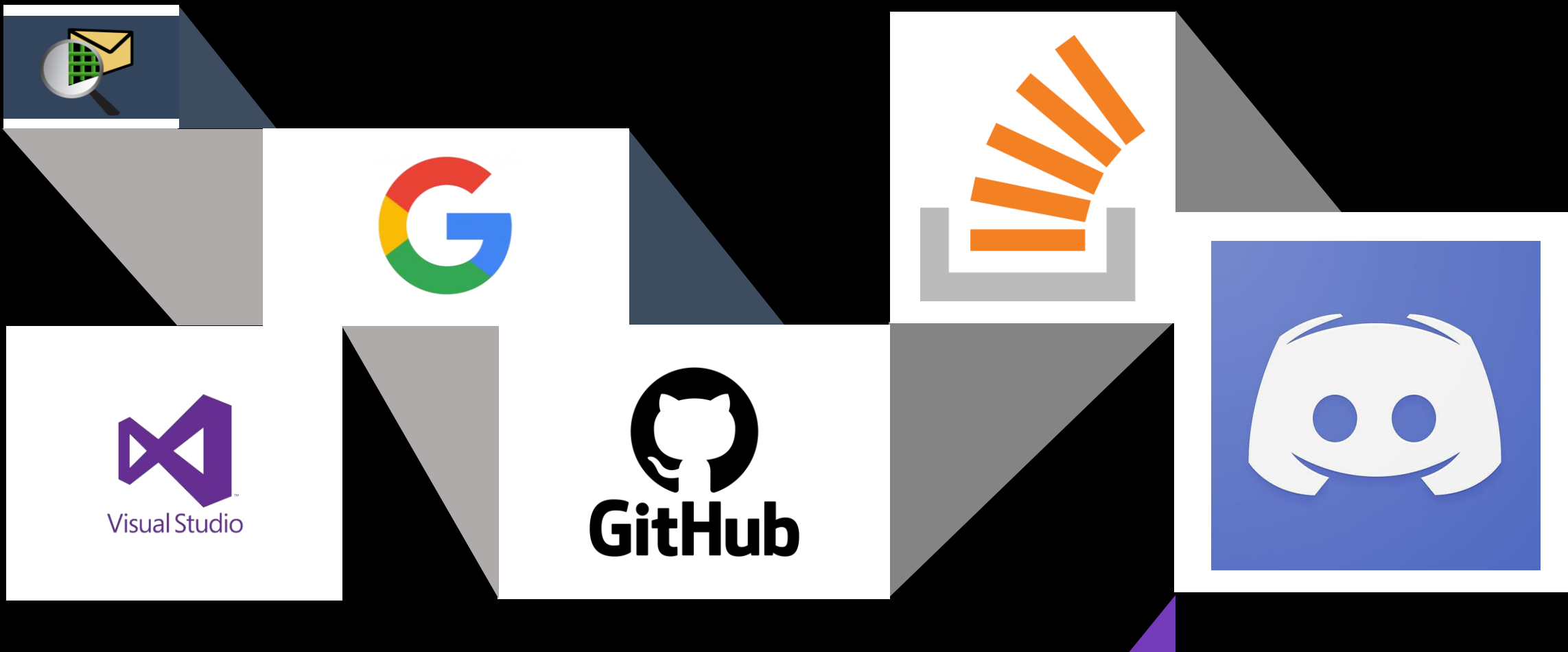
# Demonstração da aplicação do Funcionário





# Cronograma Final





Recursos Utilizados



Conclusão