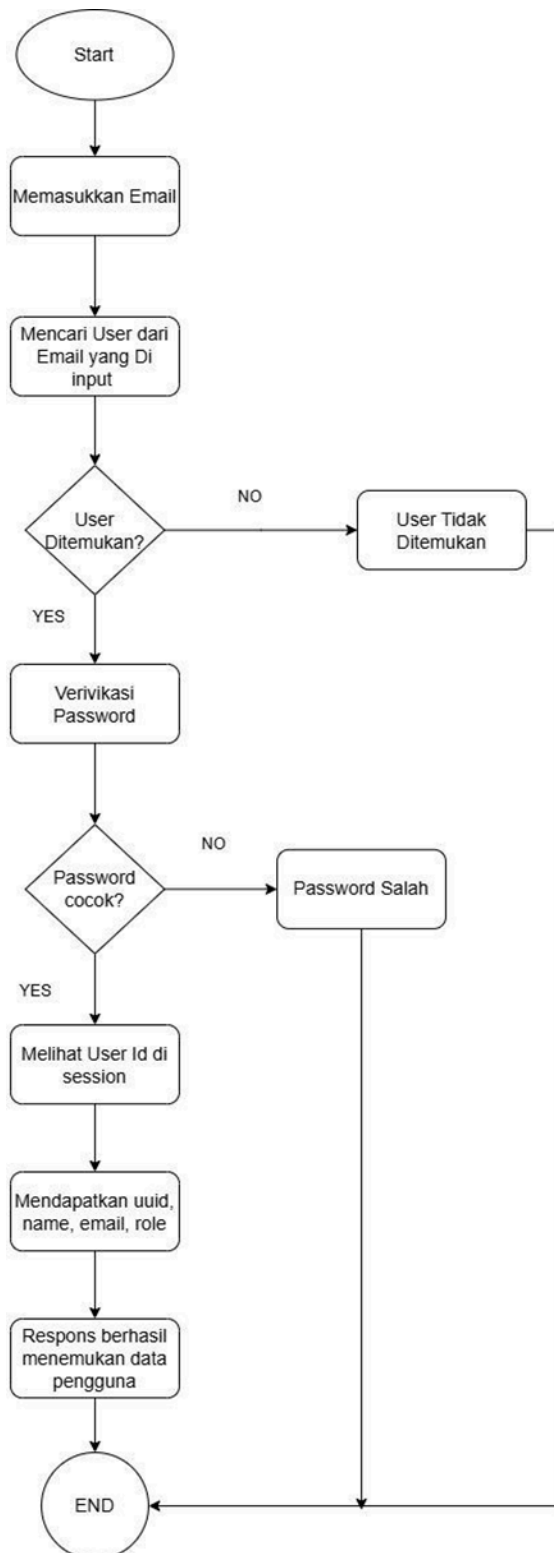


Pengujian White Box Project Posyandu

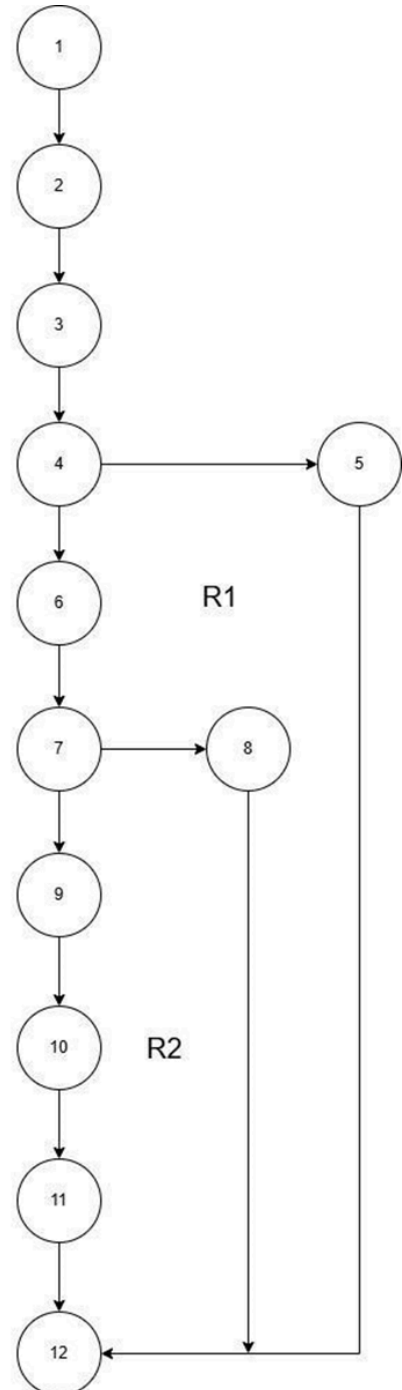
Login

```
export const Login = async (req, res) => {  
  const users = await Users.findOne({  
    where: {  
      email: req.body.email  
    }  
  });  
  if(!users) return res.status(404).json({msg: "User tidak ditemukan"});  
  const match = await argon2.verify(users.password, req.body.password);  
  if(!match) return res.status(400).json({msg: "Password salah"});  
  req.session.userId = users.uuid;  
  const uuid = users.uuid;  
  const name = users.name;  
  const email = users.email;  
  const role = users.role;  
  res.status(200).json({uuid, name, email, role});  
}
```

Flowchart & FlowGraph Login



R3



Region : 3
Edge : 13
Node : 12
Simpul Predikat : 2
Independent path : 3
 1-2-3-4-6-7-9-10-11-12
 1-2-3-4-6-7-8-12
 1-2-3-4-5-12

Kompleksitas Siklomatis : $V(G) = E - N + 2$
 $13 - 12 + 2 = 3$
 $V(G) = P + 1$
 $2 + 1 = 3$

Update Dokumentasi

```

export const updateDokumentasi = async (req, res) =>{
  try {
    const dokumentasi = await Dokumentasi.findOne({
      where: {
        uuid: req.params.id
      }
    });
    if (!dokumentasi) return res.status(404).json({ msg: "Data tidak ditemukan" });

    const { judul, keterangan } = req.body;

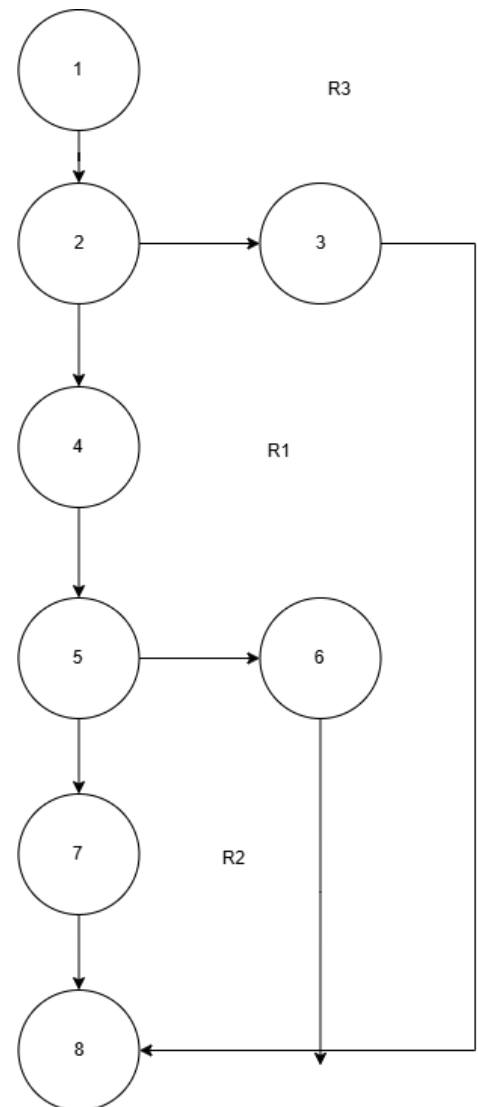
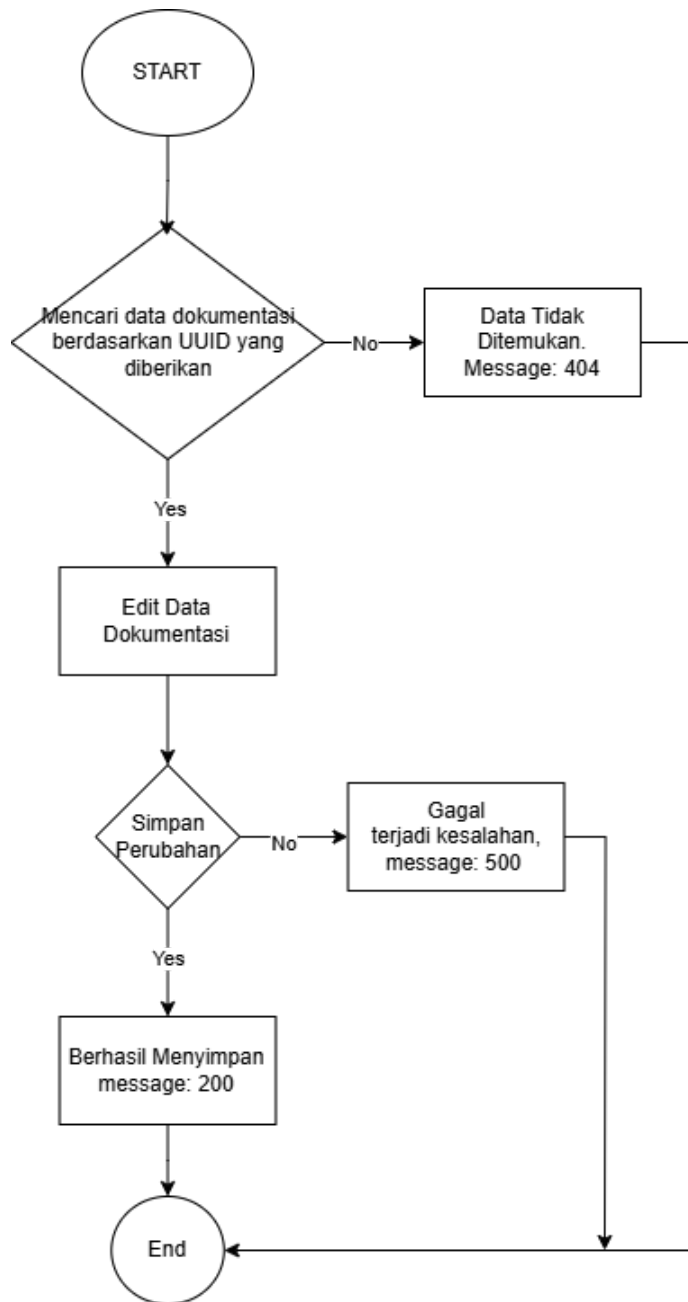
    // Handle image update
    if (req.file) {
      const oldImagePath = path.join(process.cwd(), 'uploads', 'dokumentasi', dokumentasi.image);
      if (fs.existsSync(oldImagePath)) {
        fs.unlinkSync(oldImagePath); // Hapus gambar lama
      }
      dokumentasi.image = req.file.filename; // Simpan nama file baru
    }

    // Update data dokumentasi
    dokumentasi.judul = judul;
    dokumentasi.keterangan = keterangan;

    await dokumentasi.save(); // Simpan perubahan ke database

    res.status(200).json({ msg: "Data Dokumentasi berhasil diperbarui" });
  } catch (error) {
    console.error("Error in updateDokumentasi:", error);
    res.status(500).json({ msg: error.message });
  }
}
  
```

Flowchart & FlowGraph Update Dokumentasi Staff



N = 8

Simpul Predikat = 2

E = 9

Independent Path = 3 (1- 2-3-8), (1-2-4-5-6-8), (1-2-4-5-7-8)

R = 3

Kompleksitas Siklomatis = $V(G) = E - N + 2$

$$9 - 8 + 2 = 3$$

$$= V(G) = P + 1$$

$$2 + 1$$

Delete Dokumentasi

```
export const deleteDokumentasi = async (req, res) =>{
  try {
    const dokumentasi = await Dokumentasi.findOne({
      where: {
        uuid: req.params.id
      }
    });

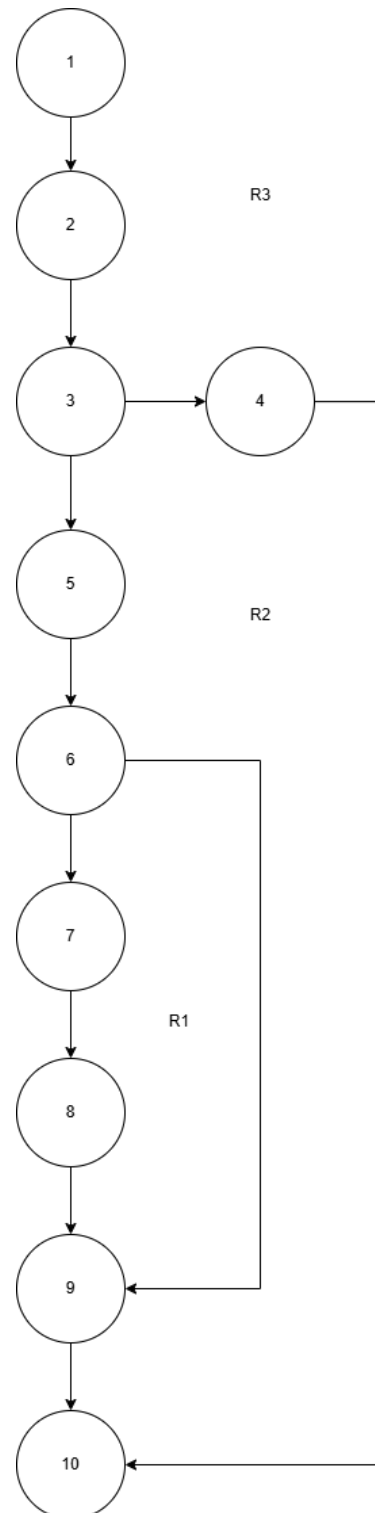
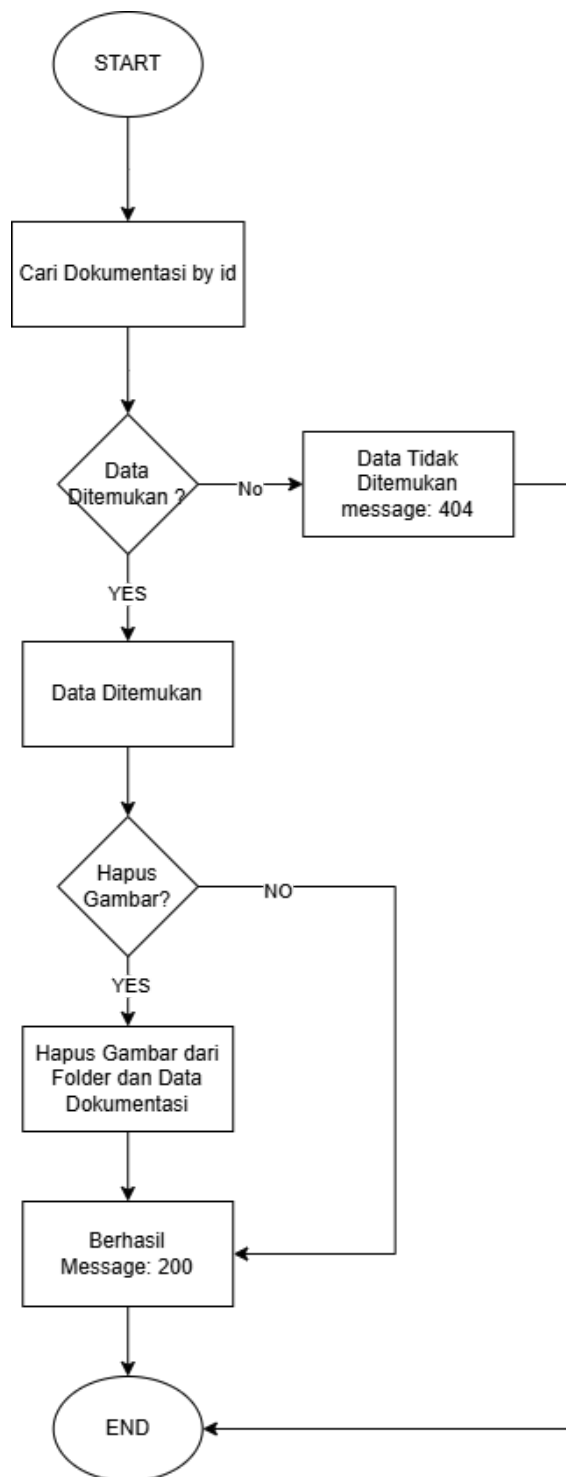
    if (!dokumentasi) {
      console.error("Data not found");
      return res.status(404).json({ msg: "Data tidak ditemukan" });
    }

    // Hapus file gambar dari folder uploads
    const imagePath = path.join(process.cwd(), 'dokumentasi', dokumentasi.image);
    if (fs.existsSync(imagePath)) {
      fs.unlink(imagePath, (err) => {
        if (err) {
          console.error(`Error deleting image ${dokumentasi.image}: ${err}`);
        } else {
          console.log(`Deleted image ${dokumentasi.image}`);
        }
      });
    }

    await Dokumentasi.destroy({
      where: {
        uuid: req.params.id,
      }
    });

    res.status(200).json({ msg: "Dokumentasi deleted successfully" });
  } catch (error) {
    console.error("Error in delete Dokumentasi:", error);
    res.status(500).json({ msg: error.message });
  }
}
```

Flowchart & Flowgraph Delete Dokumentasi Staff



N = 9

Simpul Predikat = 2

E = 10

Independent Path = 3 (1- 2-3-4-10), (1-2-3-5-6-9-10), (1-2-3-5-6-7-8-9-10)

R = 3

Kompleksitas Siklomatis = $V(G) = E - N + 2$

$$10 - 9 + 2 = 3$$

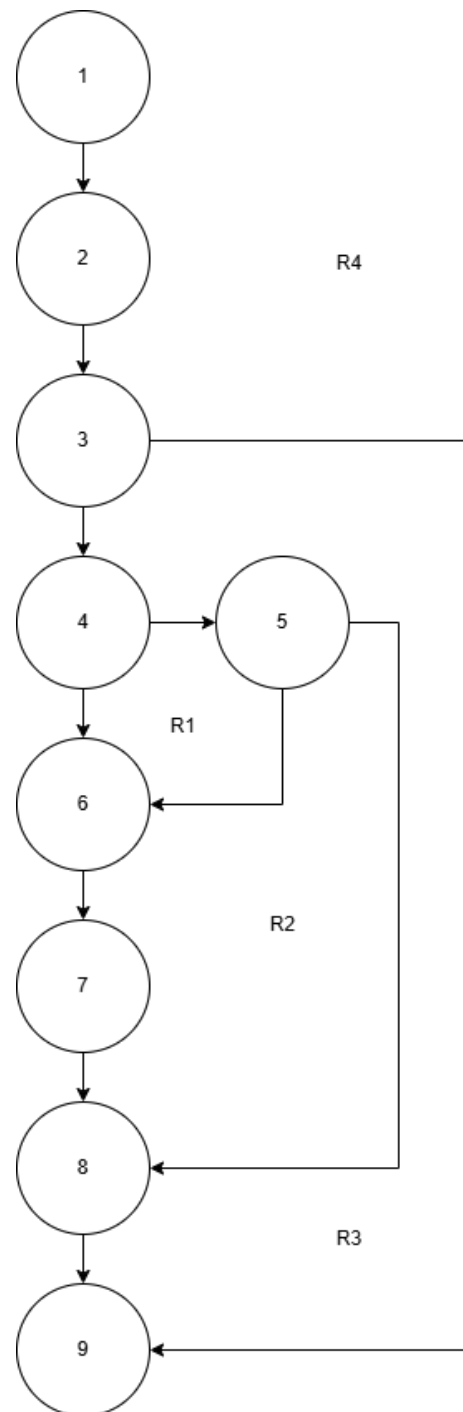
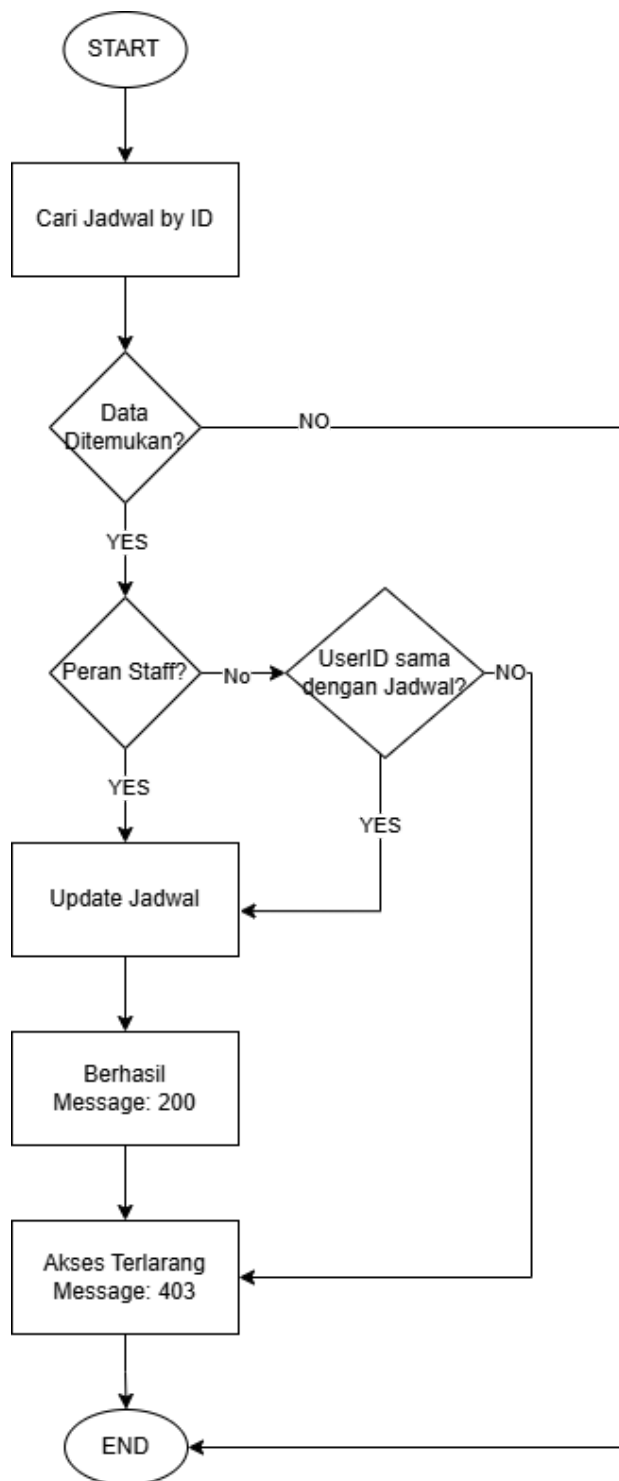
$$= V(G) = P + 1$$

$$2 + 1 = 3$$

Update Jadwal

```
export const updateJadwal = async (req, res) =>{
  try {
    const Jadwal = await JadwalPelayanan.findOne({
      where:{
        uuid: req.params.id
      }
    });
    if(!Jadwal) return res.status(404).json({msg: "Data tidak ditemukan"});
    const {rw, kategori, jadwal} = req.body;
    if(req.role === "admin"){
      await JadwalPelayanan.update({rw, kategori, jadwal}, {
        where:{
          id: Jadwal.id
        }
      });
    }else{
      if(req.userId !== Jadwal.userId) return res.status(403).json({msg: "Akses terlarang"});
      await JadwalPelayanan.update({rw, kategori, jadwal}, {
        where:{
          [Op.and]:[{id: Jadwal.id}, {userId: req.userId}]
        },
      });
    }
    res.status(200).json({msg: "Jadwal updated successfully"});
  } catch (error) {
    res.status(500).json({msg: error.message});
  }
}
```

Flowchart & FlowGraph Update Jadwal



N = 9

Simpul Predikat = 3

E = 11

Independent Path = 4 (1- 2-3-9), (1-2-3-4-5-8-9), (1-2-3-4-5-6-7-8-9),(1,2,3,4,6,7,8,9)

R = 4

Kompleksitas Siklomatis = $V(G) = E - N + 2$

$$11 - 9 + 2 = 4$$

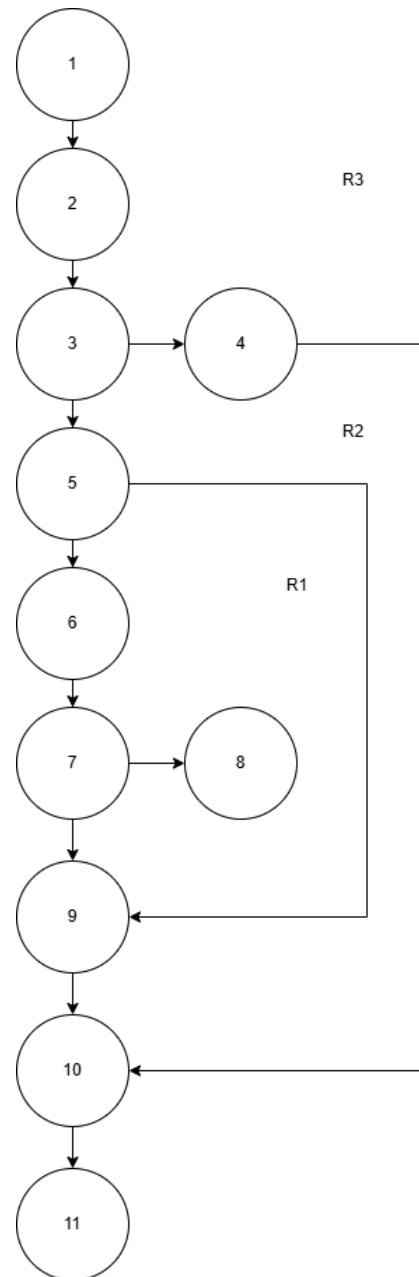
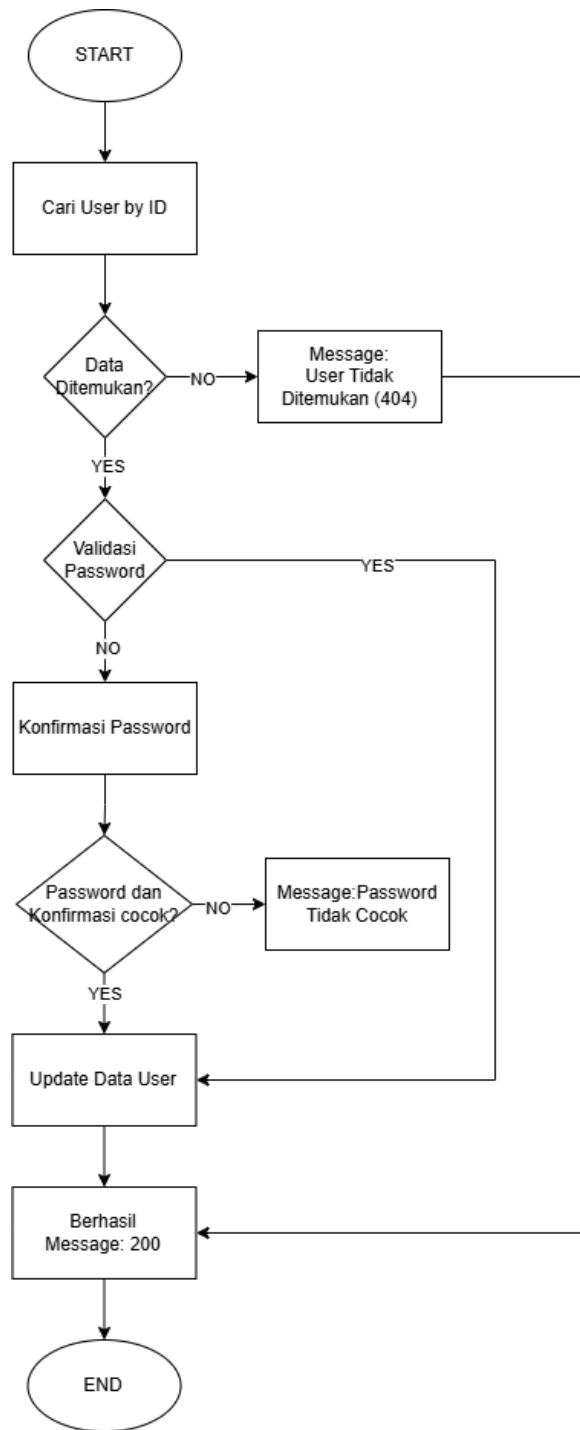
$$= V(G) = P + 1$$

$$3 + 1 = 4$$

Update User

```
export const updateUser = async (req, res) =>{
  const users = await Users.findOne({
    where: {
      uuid: req.params.id
    }
  });
  if(!users) return res.status(404).json({msg: "User tidak ditemukan"});
  const {name, email, password, confPassword, role} = req.body;
  let hashPassword;
  if(password === "" || password === null){
    hashPassword = users.password
  }else{
    hashPassword = await argon2.hash(password);
  }
  if(password !== confPassword) return res.status(400).json({msg: "Password dan Confirm Password tidak cocok"});
  try {
    await Users.update({
      name: name,
      email: email,
      password: hashPassword,
      role: role
    },{
      where:{
        id: users.id
      }
    });
    res.status(200).json({msg: "User Updated"});
  } catch (error) {
    res.status(400).json({msg: error.message});
  }
}
```

Flowchart & FlowGraph Update User



N = 11

Simpul Predikat = 3

E = 12

Independent Path = 4 (1- 2-3-4-10-11), (1-2-3-5-9-10-11), (1-2-3-5-6-7-8),

(1,2,3,5,6,7,9,10,11)

R = 3

Kompleksitas Siklomatis = $V(G) = E - N + 2$

$$12 - 11 + 2 = 3$$

$$= V(G) = P + 1$$

$$3 + 1 = 4$$