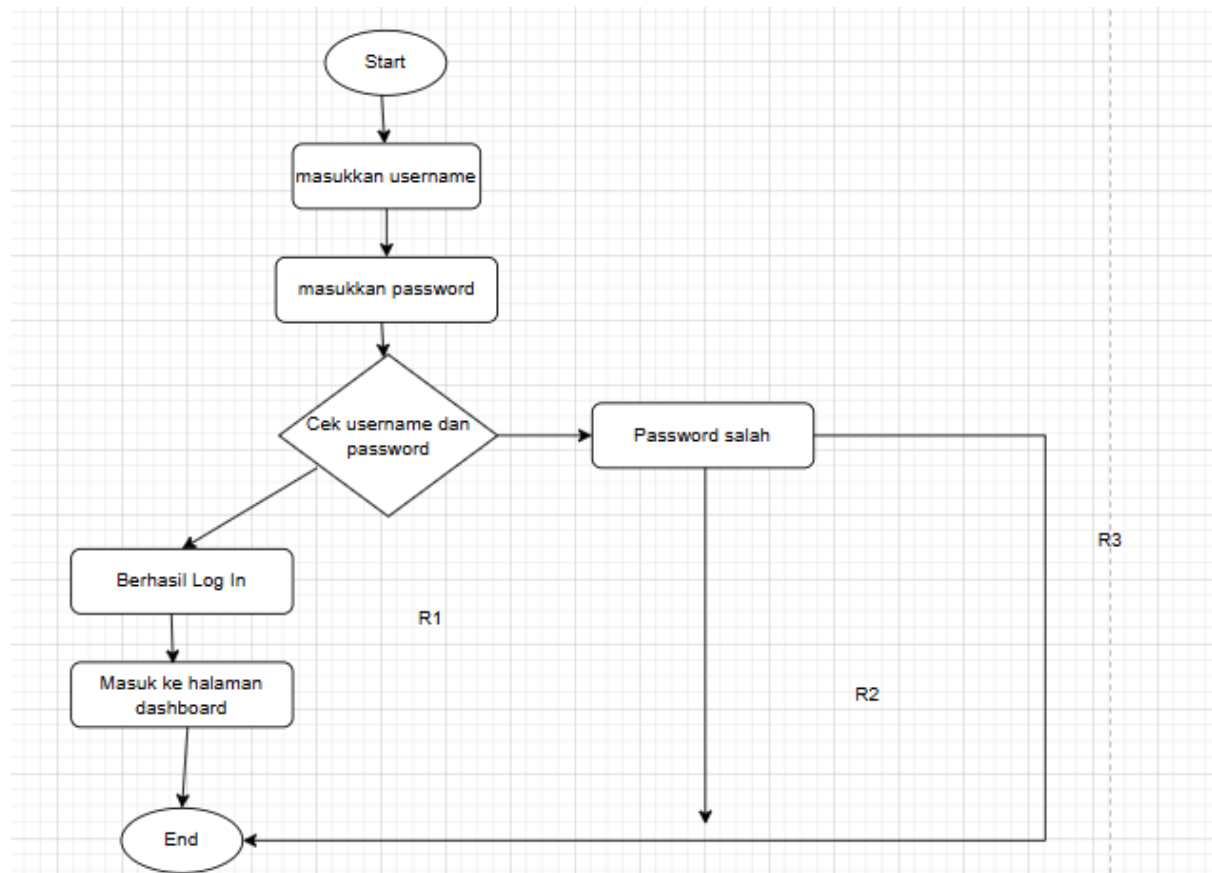


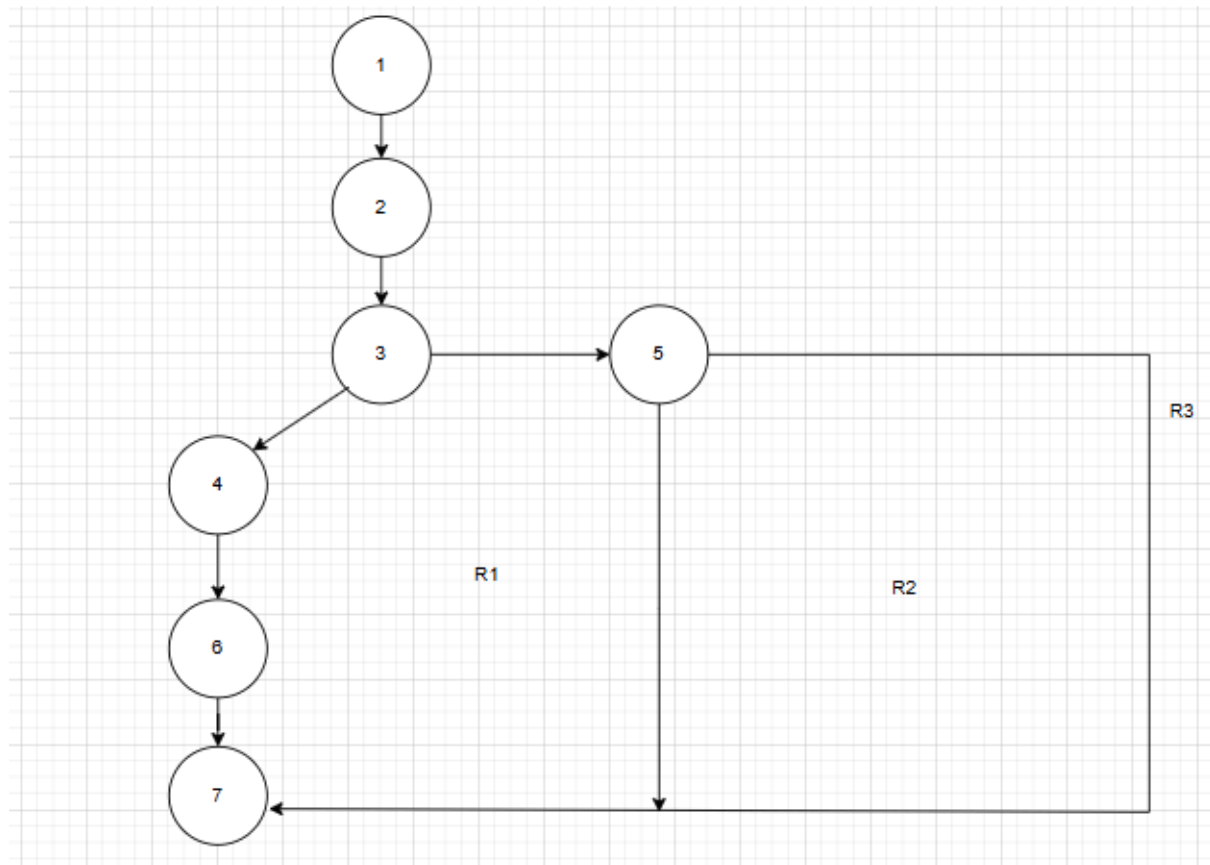
Pengujian White Box Project Toko Sunali Jaya

Login Admin

```
@app.route('/admin/login', methods=['GET', 'POST'])  
  
def admin_login():  
  
    if request.method == 'POST':  
  
        username = request.form['username']  
  
        password = request.form['password']  
  
        admin = Admin.query.filter_by(username=username).first()  
  
        if admin and check_password_hash(admin.password,  
password):  
  
            session['admin'] = admin.username  
  
            return redirect(url_for('admin_dashboard'))  
  
        else:  
  
            return render_template('admin_login.html', error="Invalid  
credentials!")  
  
        return render_template('admin_login.html')
```

Flowchart & FlowGraph Login





Region : 3
 Edge : 8
 Node : 7
 Simpul Predikat : 3
 Independent path : 3
 1-2-7
 1-3-4-7
 1-5-6-7

Kompleksitas Siklomatis : $V(G) = E - N + 2$
 $8 - 7 + 2 = 3$
 $V(G) = P + 1$
 $2 + 1 = 3$

masukkan produk ke database dari admin

```
@app.route('/admin/add', methods=['GET', 'POST'])
def add_product():
    if 'admin' not in session:
        return redirect(url_for('admin_login'))

    if request.method == 'POST':
        name = request.form['name']
        price = float(request.form['price'])
        description = request.form['description']
        image = request.files['image']

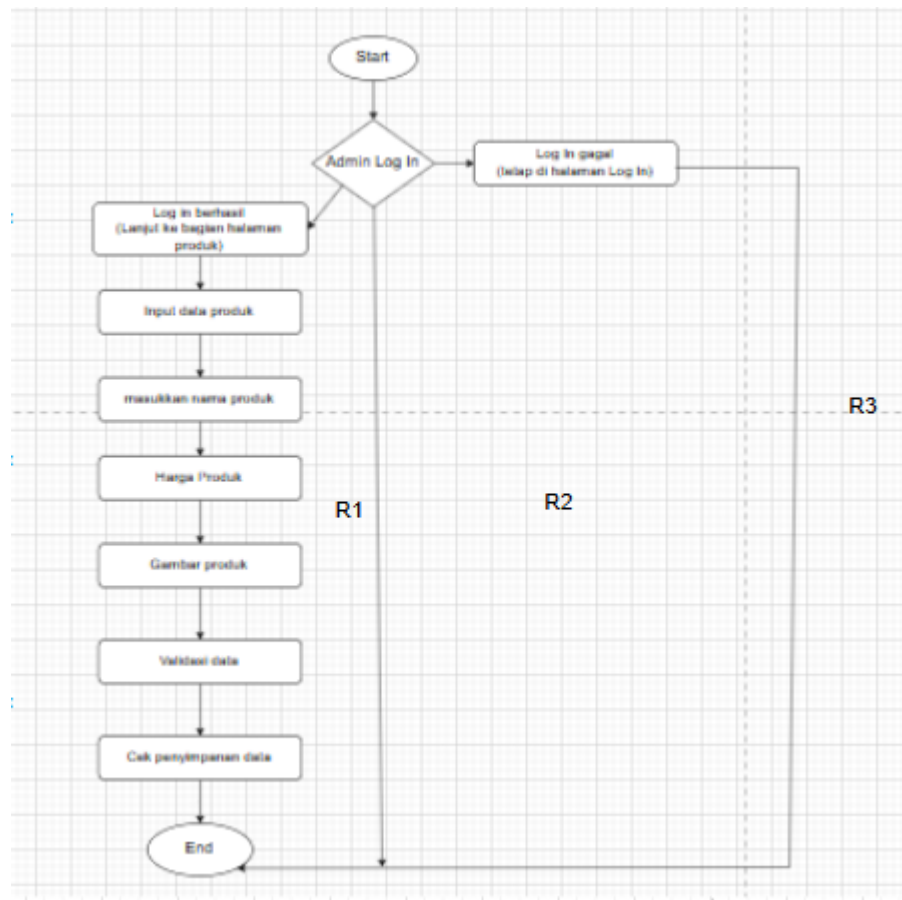
        if image and allowed_file(image.filename):
            filename = secure_filename(image.filename)
            filepath =
os.path.join(app.config['UPLOAD_FOLDER'], filename)
            image.save(filepath)

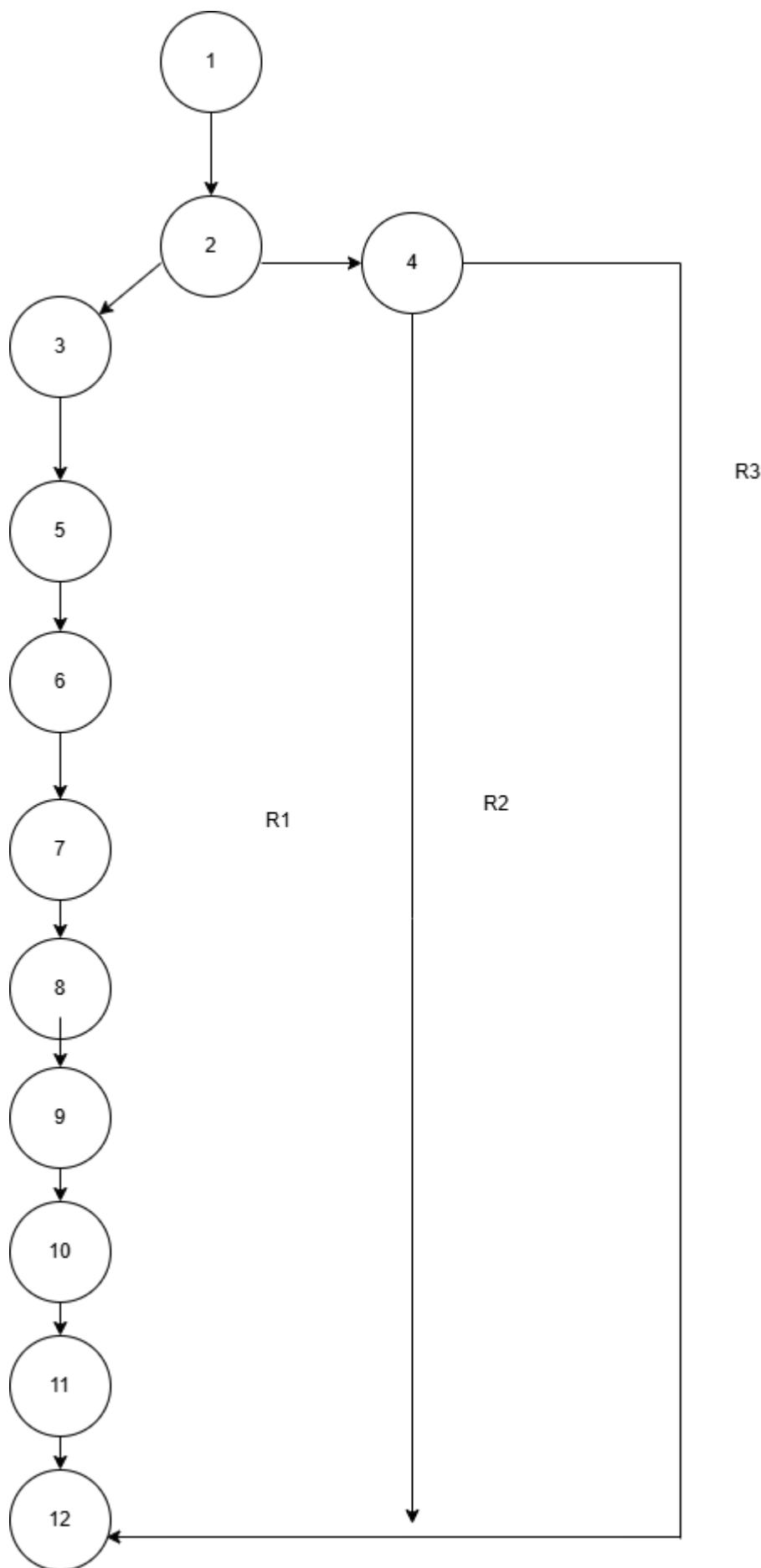
            new_product = Products(name=name, price=price,
description=description, image=filename)
            db.session.add(new_product)
            db.session.commit()

        return redirect(url_for('admin_dashboard'))

    return render_template('add_product.html')
```

Flowchart & FlowGraph masukkan produk ke database dari admin





N = 12 Simpul Predikat = 2

E = 13 Independent Path = 3 (1- 2-3-12), (1-4-5-6-12), (1-4-7-8-12)

R = 3

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

$$13 - 12 + 2 = 3$$

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

$$2 + 1 = 3$$

#Bagian detil produk

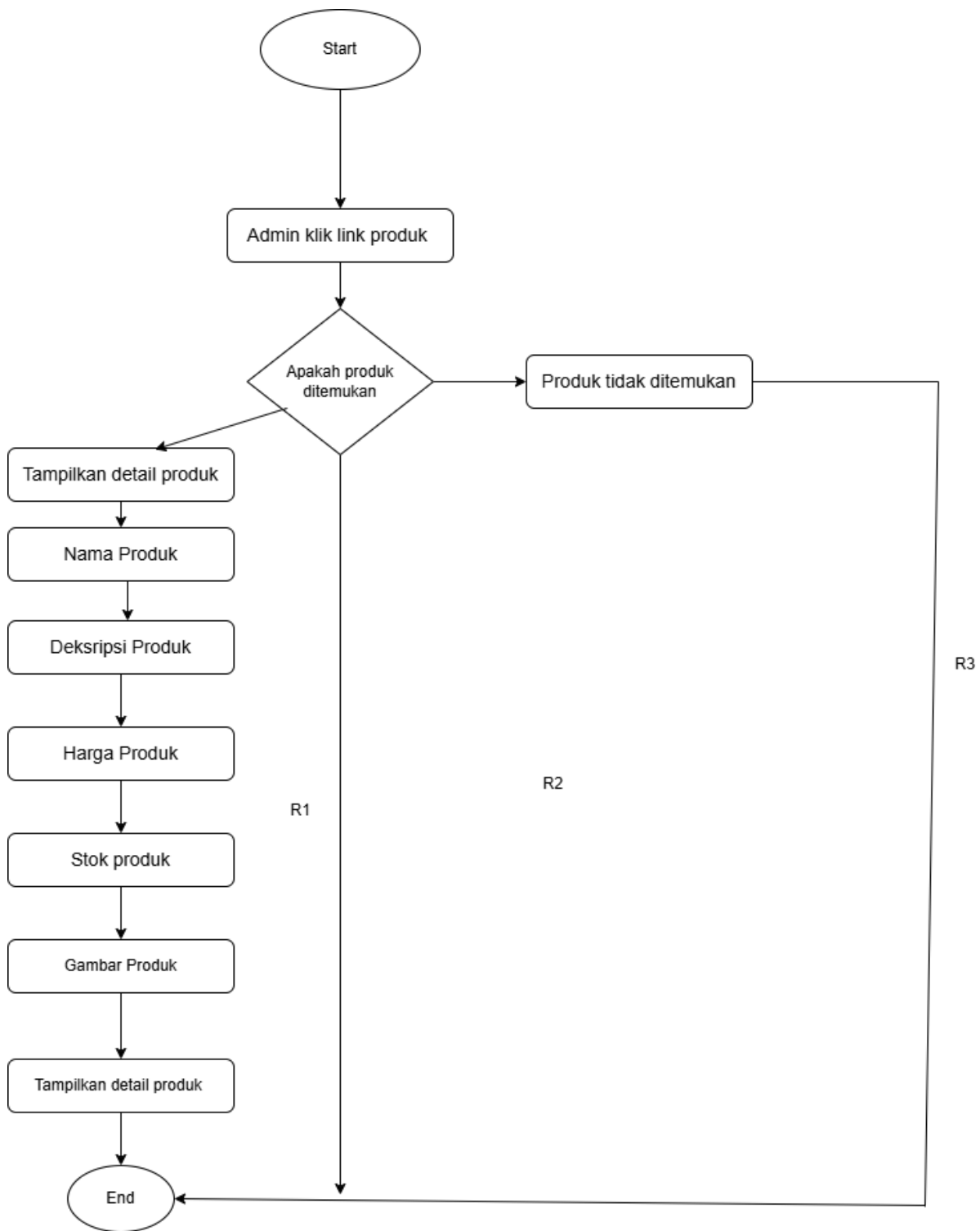
```
@app.route('/product/<int:product_id>')
```

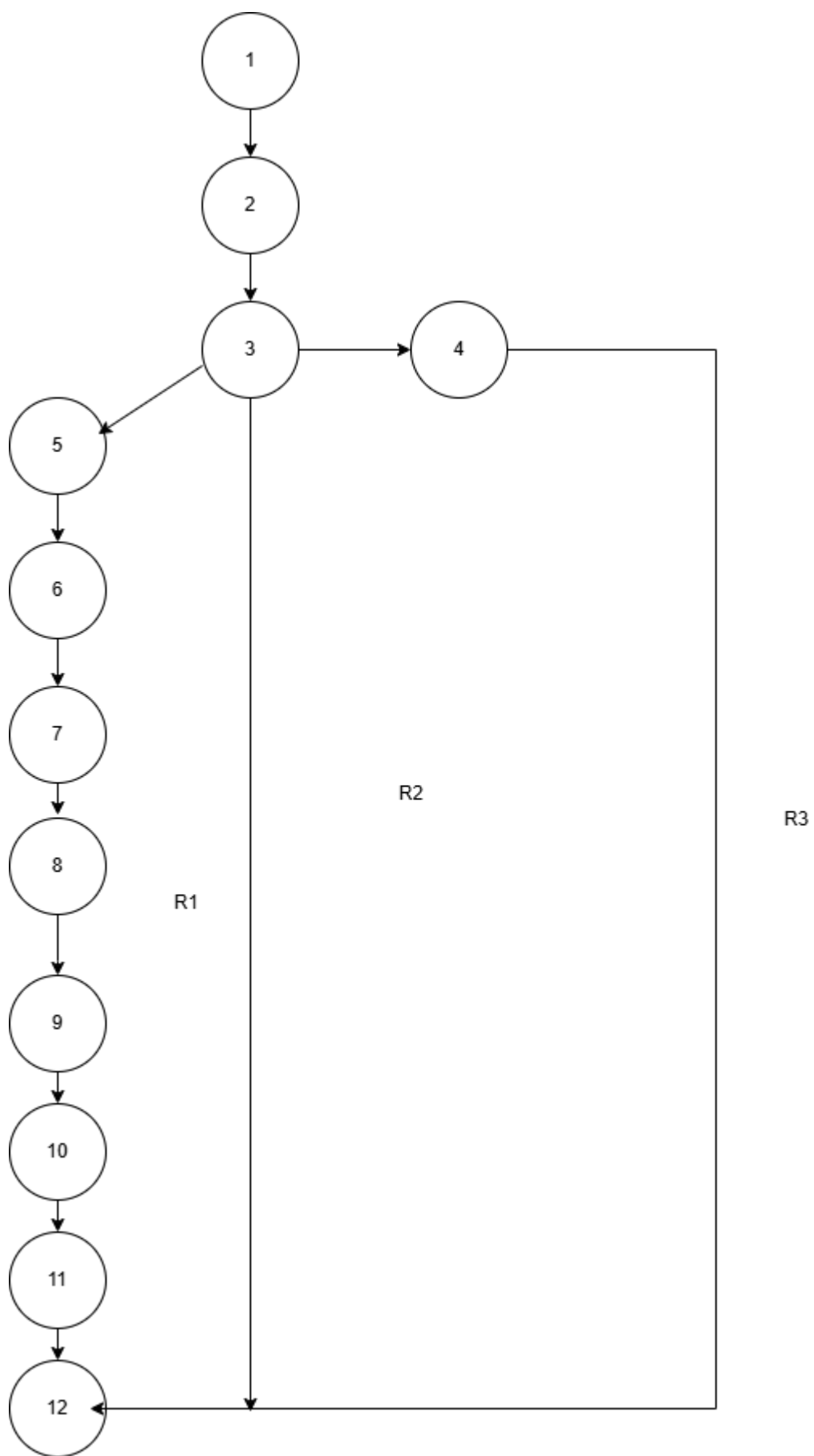
```
def product_detail(product_id):
```

```
    product = Products.query.get_or_404(product_id)
```

```
    return render_template('product_detail.html',  
                           product=product)
```

Flowchart dan Flowgraph Bagian detail produk





N = 12

Simpul Predikat = 2

E = 13

Independent Path = 3 (1-2-3-12), (1-4-5-6-12), (1-4-7-8-12)

R = 3

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

$$3 - 12 + 2 = 3$$

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

$$2 + 1$$

payment-complete

#Pembayaran selesai

```
@app.route('/payment_complete', methods=['GET', 'POST'])
```

```
def payment_complete():
```

```
    file = request.files.get('payment_proof')
```

```
    if file and allowed_file(file.filename):
```

```
        filename = secure_filename(file.filename)
```

```
        filepath = os.path.join(app.config['UPLOAD_FOLDER'],
                                filename)
```

```
        file.save(filepath)
```

```
        order_id = session.get('order_id')
```

```
        order = Order.query.get(order_id)
```

```
        if order:
```

```
            order.payment_proof = filename
```

```
order.payment_status = 'Menunggu Verifikasi'

db.session.commit()

flash("Bukti pembayaran berhasil diunggah dan pesanan
diperbarui!", "success")

else:

flash("Pesanan tidak ditemukan.", "danger")

else:

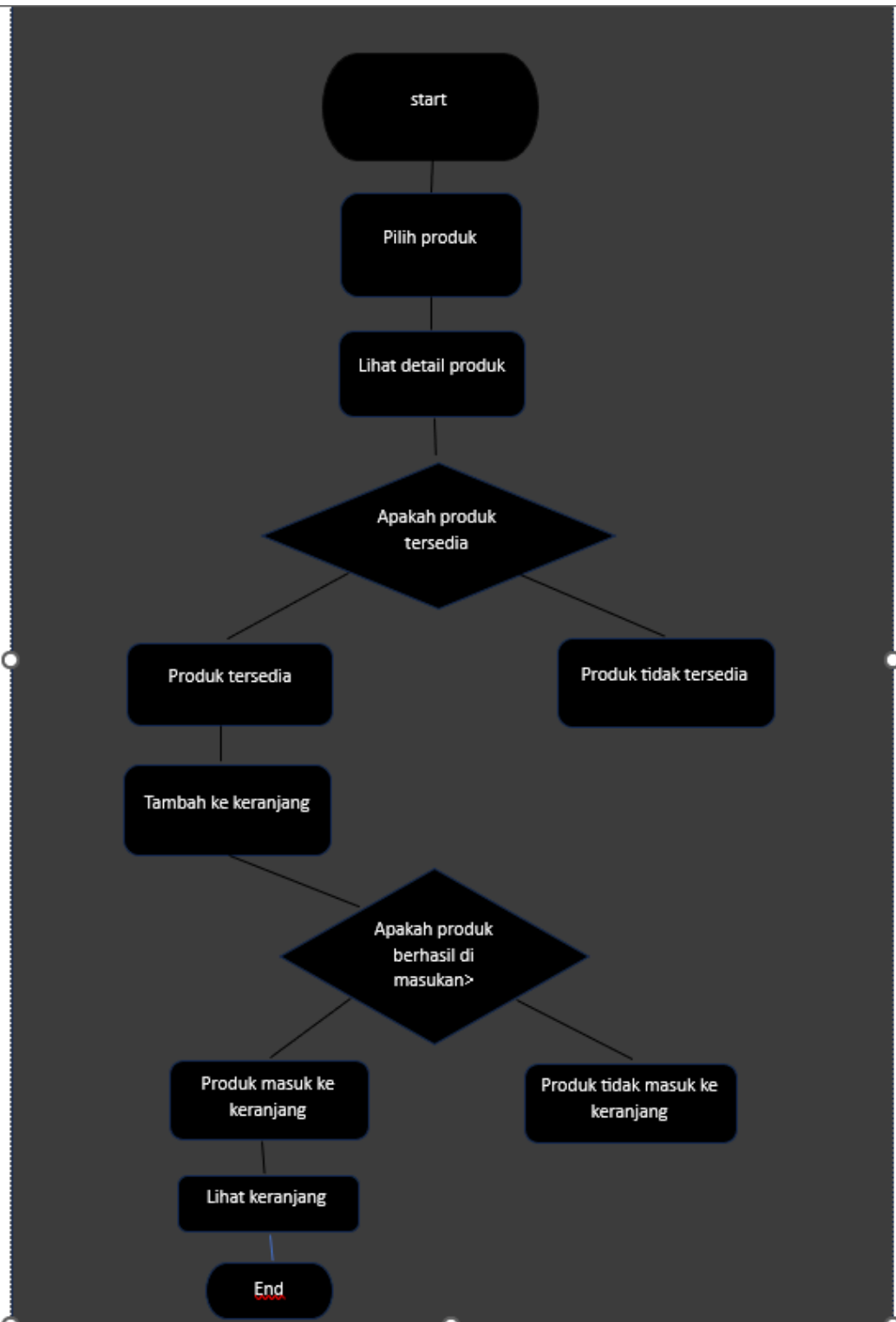
flash("Harap unggah file yang valid.", "danger")

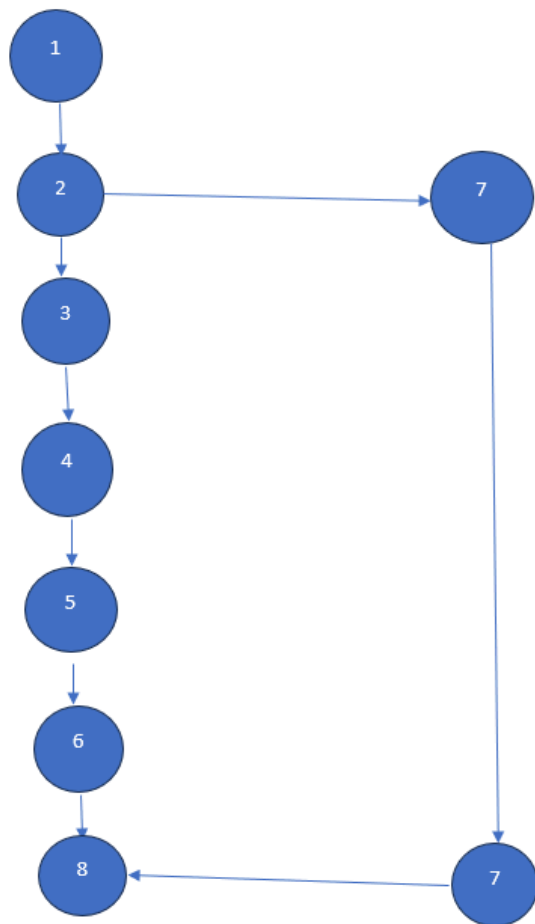
session.pop('cart', None)

session.pop('checkout_complete', None)

session.pop('payment_method', None)

return render_template('payment_complete.html')
```





$$E = 11$$

$$N = 9$$

$$P = 1$$

$$\text{Kompleksitas siklomatis} = M = 11 - 9 + 2 * 1 = 4$$

Cart

#Bagian pembayaran

```
@app.route('/payment', methods=['GET', 'POST'])
```

```
def payment():
```

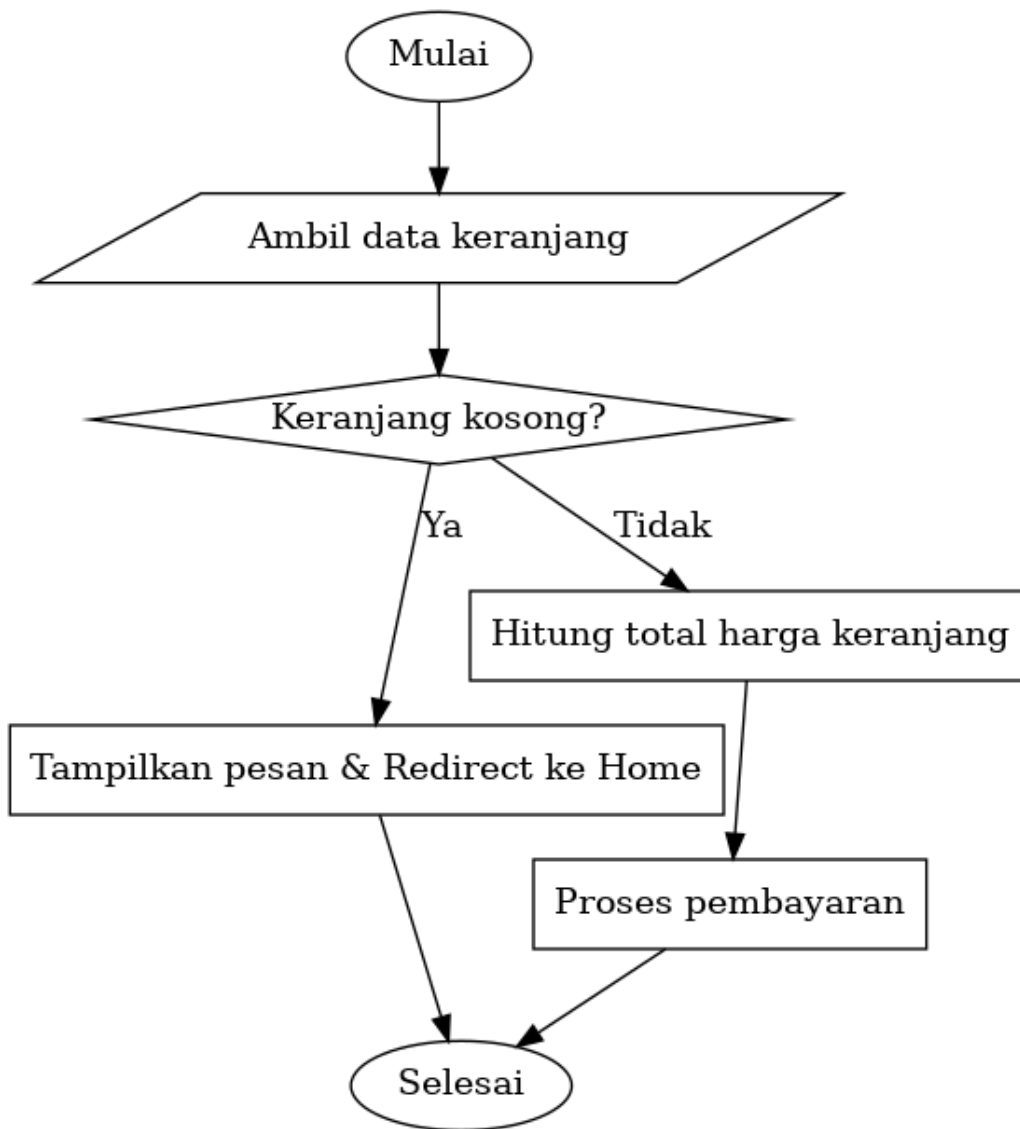
```
    cart = session.get('cart', [])
```

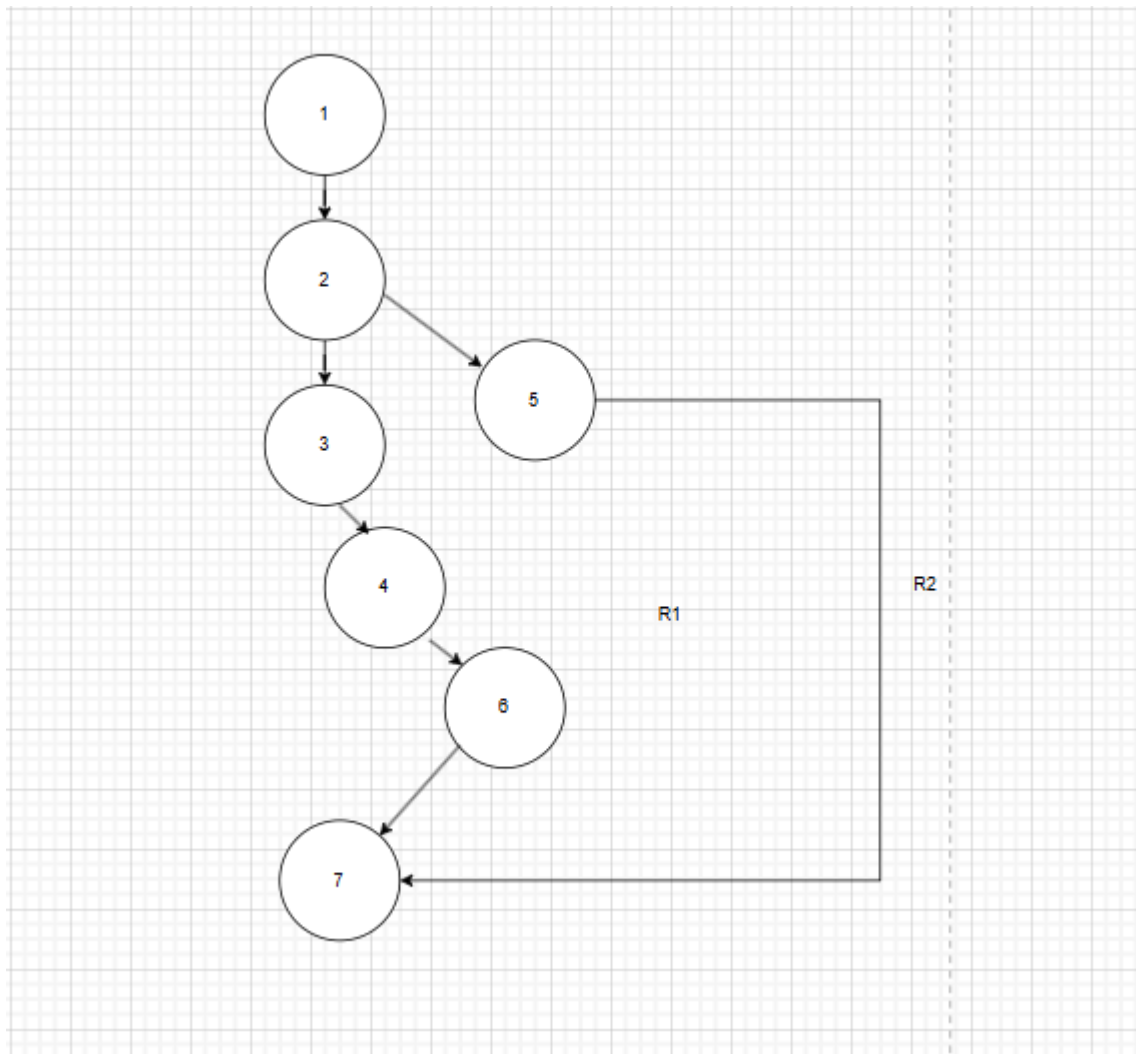
```
    if not cart:
```

```
        flash("Keranjang Anda kosong. Silakan tambah produk terlebih dahulu.",  
              "warning")
```

```
    return redirect(url_for('home'))
```

```
    cart_total = sum(item['price'] * item['quantity'] for item in cartrt)
```





N = 12

Simpul Predikat = 2

E = 13

Independent Path = 3 (1-2-3-12), (1-4-5-6-12), (1-4-7-8-12)

R = 3

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

$$3 - 12 + 2 = 3$$

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

$$2 + 1$$

Halaman Pembayaran dan Pengolahan Pesanan


```
@app.route('/payment', methods=['GET', 'POST'])

def payment():

    cart = session.get('cart', [])

    if not cart:

        flash("Keranjang Anda kosong. Silakan tambah produk terlebih dahulu.", "warning")

        return redirect(url_for('home'))

    cart_total = sum(item['price'] * item['quantity'] for item in cart)

    if request.method == 'POST':

        name = request.form.get('name')

        phone = request.form.get('phone')

        address = request.form.get('address')

        payment_method = request.form.get('payment_method')

        if not name or not phone or not address or not payment_method:

            flash("Semua field wajib diisi.", "warning")

            return redirect(url_for('payment'))

        payment_proof = None

        file = request.files.get('payment_proof')

        if file and allowed_file(file.filename):

            filename = secure_filename(file.filename)

            file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename))

            payment_proof = filename

        new_order = Order(

            customer_name=name,
```

```

customer_phone=phone,
customer_address=address,
total_price=cart_total,
payment_method=payment_method,
payment_status='Pending',
payment_proof=payment_proof,
cart_data=cart
)

db.session.add(new_order)

db.session.commit()

if payment_method:

    flash(f"Pesanan Anda telah diterima. Silakan lanjutkan dengan {payment_method}.",
    "success")

    return redirect(url_for('payment_instructions', method=payment_method))

else:

    flash("Silakan lengkapi detail tambahan untuk pembayaran.", "info")

    return redirect(url_for('payment_form'))

return render_template('payment.html', cart=cart, cart_total=cart_total)

instruksi pembayaran berdasarkan metode pembayaran yang dipilih oleh
pengguna

@app.route('/payment-instructions/<method>', methods=['GET', 'POST'])
def payment_instructions(method):

    cart = session.get('cart', [])

    cart_total = sum(item['price'] * item['quantity'] for item in cart)

```

```
if request.method == 'POST':

    file = request.files.get('payment_proof')

    if file:

        if allowed_file(file.filename):

            filename = secure_filename(file.filename)

            filepath = os.path.join(app.config['UPLOAD_FOLDER'], filename)

            file.save(filepath)

            session['payment_proof'] = filename

            flash("Bukti pembayaran berhasil diupload!", "success")

            return redirect(url_for('payment_instructions', method=method))

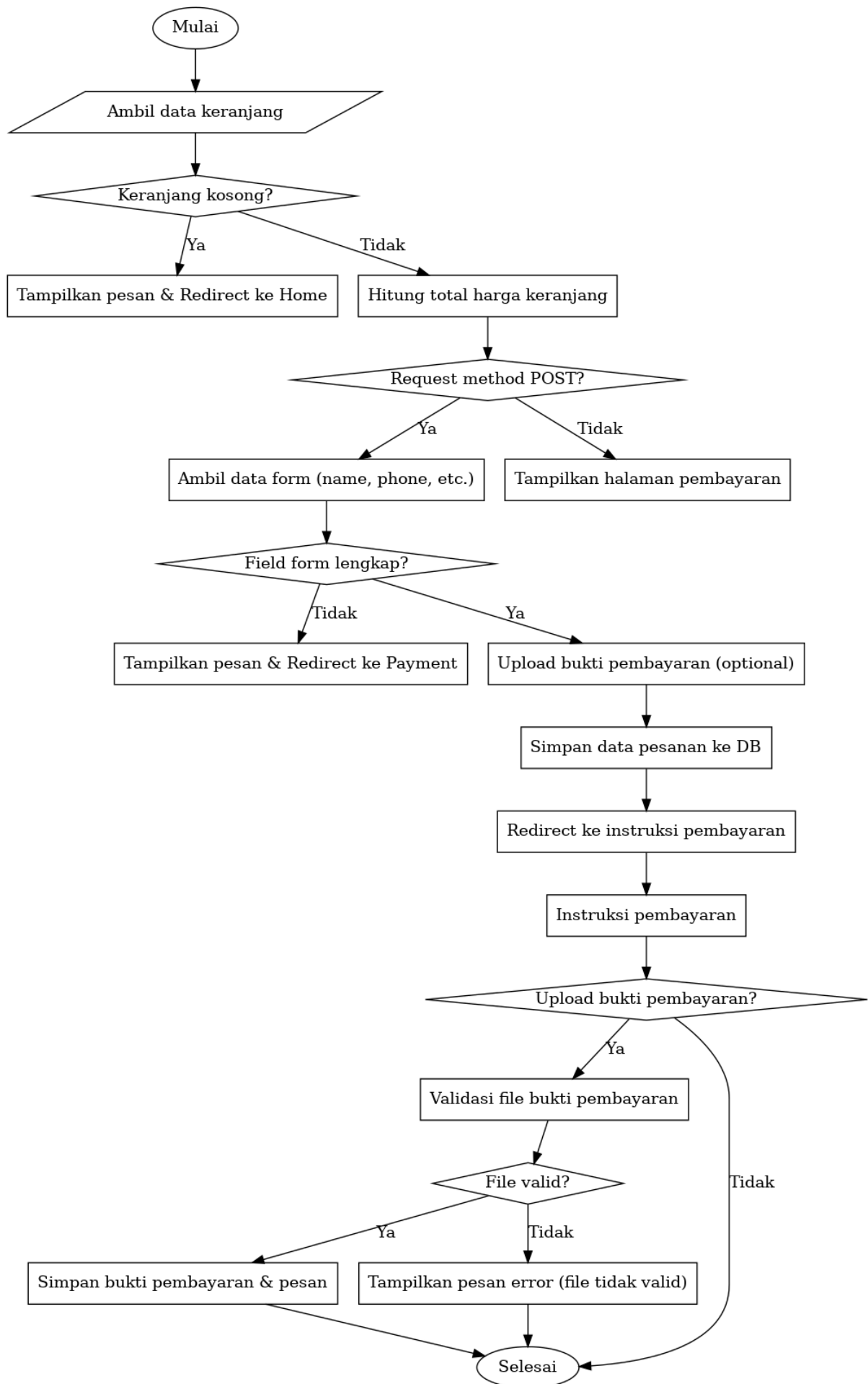
        else:

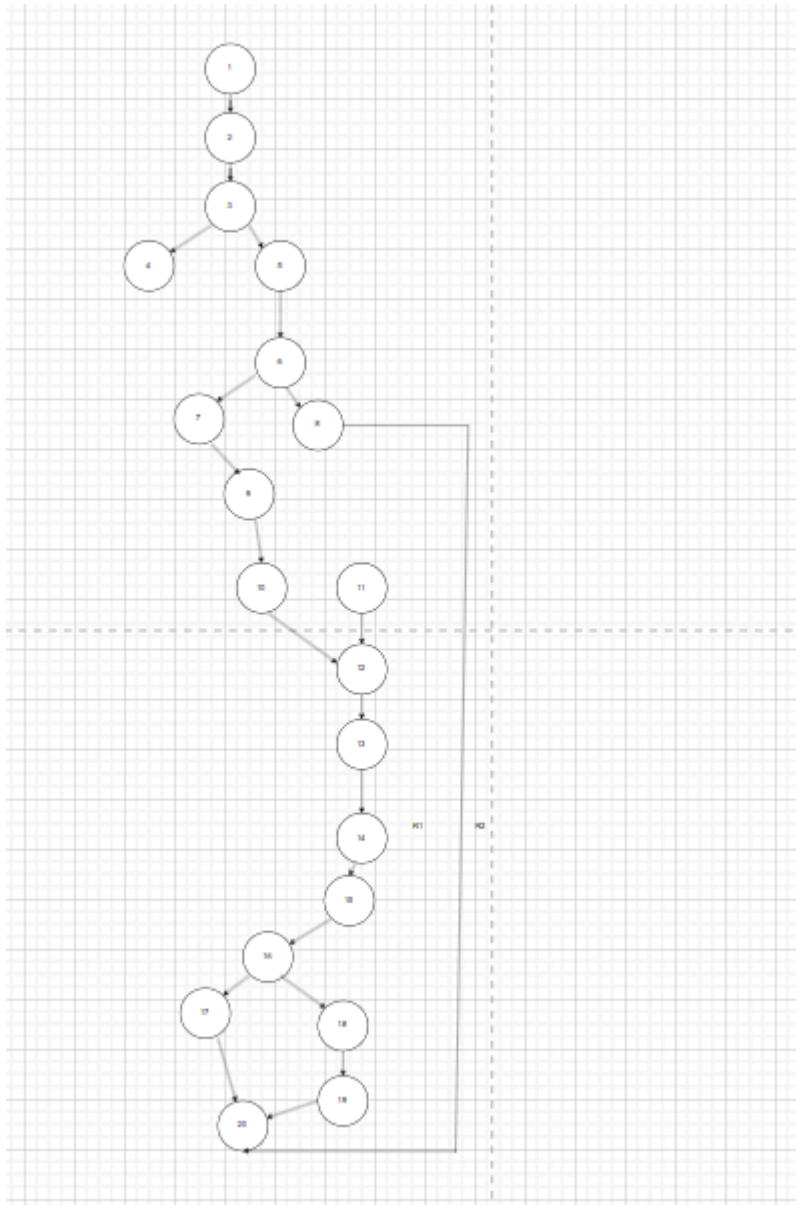
            flash("Tipe file tidak diperbolehkan. Silakan upload gambar dengan format yang valid.", "danger")

    else:

        flash("Silakan pilih gambar bukti pembayaran untuk diupload.", "warning")

    return render_template(f'instructions/{method}.html', method=method,
                           cart_total=cart_total)
```





N = 20

Simpul Predikat = 1

E = 2 Independent Path = 2 (1-2-3-4-20), (1-2-5-6-7-20),

R = 2

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

$$3 - 12 + 2 = 3$$

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

$$2 + 1$$

