

QR CODE GENERATION

This Python script generates a **payment QR code** containing transaction details, saves it as an image, and opens it in the browser. Here's what it does step-by-step:

1. Imports Required Libraries:

- **qrcode**: To create the QR code.
- **uuid**: To generate a unique transaction ID.
- **webbrowser**: To open the saved image in the default browser.
- **datetime**: To add a timestamp in UTC.
- **os**: To handle file paths.

2. Main Function – **generate_qr_code(amount):**

- Generates a **UUID-based transaction ID**.
- Captures the **current UTC time**.
- Builds a **QR data string** with transaction details (ID, amount, currency, timestamp, and payee).
- Creates and **saves a QR code image** named like **payment_qr_<id>.png**.
- Prints the file name and transaction ID.
- **Automatically opens the QR code image in the default browser.**

3. User Interaction:

- Prompts the user to enter a payment amount.
- If the input is valid (numeric), it generates the QR code.
- If invalid, it shows an error message.

