

## Integrate Basic Payment Workflow Using Clover Payment Gateway

### 🏰 Objective:

Develop a simple web-based checkout application that integrates with the **Clover REST API** to process payments. The application should allow a user to input a payment amount and initiate a transaction using Clover's APIs.

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### ★ Requirements:

1. **Authentication**
    - Implement OAuth2-based authentication to access the Clover merchant account.
    - Store and manage the access token securely.
  2. **Create Payment Flow**
    - Use Clover's `orders` and `payments` API to:
      - Create a new order
      - Add a line item (e.g., product name + amount)
      - Initiate a payment using card or test token
  3. **Display Payment Status**
    - Fetch and display the status of the payment (e.g., success, failure).
    - Log the transaction details locally.
  4. **Basic Front-End UI (Optional)**
    - A simple HTML form to enter:
      - Amount
      - Description
      - Submit button to trigger payment
  5. **Documentation**
    - Document the setup steps, how the OAuth process works, and API calls made.
    - Provide a short README.
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### ✂ Tech Stack (Recommended):

- Backend: **C# / Node.js / Python / Java (Spring Boot)**
  - Frontend: **HTML/CSS + basic JS or React**
  - Tools: Postman for API testing
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## Resources:

- [Clover Developer Portal](#)
  - [Clover API Reference](#)
  - [OAuth 2.0 Guide](#)
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## Success Criteria:

- A working prototype that allows a user to initiate a test payment.
- Proper error handling for failed requests or expired tokens.
- Clean and understandable codebase.
- Submission via GitHub repo or zip archive.