Affiliate Program Chatbot Implementation

Basic Chatbot Implementation

```
import random
import re

class AffiliateBot:
    def __init__(self):
        self.products = {
            'product1': {'name': 'Premium Package', 'commission
            'product2': {'name': 'Standard Package', 'commissio
            'product3': {'name': 'Basic Package', 'commission':
        }

        self.responses = {
            'greeting': ['Hello! Welcome to our affiliate progra
            'commission': ['Our commission rates range from 20%
            'payment': ['We process payments monthly via PayPal
            'unknown': ['I\'m not sure about that. Could you re
        }
```

```
    def get_response(self, user_input):
        user_input = user_input.lower()

        if any(word in user_input for word in ['hello', 'hi', 'h
            return random.choice(self.responses['greeting'])

        elif any(word in user_input for word in ['commission',
            return random.choice(self.responses['commission'])

        elif any(word in user_input for word in ['payment', 'pa
            return random.choice(self.responses['payment'])

        elif 'product' in user_input:
            return self.get_product_info(user_input)

        else:
            return random.choice(self.responses['unknown'])

    def get_product_info(self, query):
        for product_id, details in self.products.items():
            if product_id in query:
                return f"Product: {details['name']}\nCommission
        return "Please specify which product you're interested i

def main():
    bot = AffiliateBot()
    print("Affiliate Program Bot (type 'quit' to exit)")

    while True:
        user_input = input("You: ")
        if user_input.lower() == 'quit':
            print("Thank you for using our affiliate program bot
            break

        response = bot.get_response(user_input)
```

```
        print(f"Bot: {response}")

if __name__ == "__main__":
    main()
```

Enhanced Features to Add

- User authentication system
- Database integration for storing affiliate data
- Commission tracking system
- Referral link generation

- [ ] Implement user authentication system
- [ ] Set up database integration for affiliate data storage
- [ ] Develop commission tracking system
- [ ] Create referral link generation functionality
- [ ] Build sales reporting functionality
- [ ] Integrate payment systems API
- [ ] Implement advanced NLP using NLTK or spaCy
- [ ] Set up real-time commission tracking
- [ ] Develop automated payment processing
- [ ] Create performance analytics dashboard

- Sales reporting functionality

Database Integration Example

```
import sqlite3

def setup_database():
    conn = sqlite3.connect('affiliate_program.db')
```

```
    c = conn.cursor()

    # Create tables
    c.execute('''CREATE TABLE IF NOT EXISTS affiliates
                 (id INTEGER PRIMARY KEY,
                  username TEXT,
                  email TEXT,
                  referral_code TEXT)''')

    c.execute('''CREATE TABLE IF NOT EXISTS sales
                 (id INTEGER PRIMARY KEY,
                  affiliate_id INTEGER,
                  product_id TEXT,
                  commission_amount REAL,
                  sale_date TEXT)''')

    conn.commit()
    conn.close()

def register_affiliate(username, email):
    conn = sqlite3.connect('affiliate_program.db')
    c = conn.cursor()

    referral_code = generate_referral_code(username)
    c.execute("INSERT INTO affiliates (username, email, referral
              (username, email, referral_code))

    conn.commit()
    conn.close()
    return referral_code

def generate_referral_code(username):
    import uuid
    return f"{username[:5]}_{str(uuid.uuid4())[:8]}"
```

Implementation Notes

This basic chatbot implementation includes:

- Simple natural language processing to understand user queries
- Product information management
- Basic response system
- Database integration for tracking affiliates and sales

To enhance this chatbot, consider adding:

- API integration with payment systems
- Advanced NLP using libraries like NLTK or spaCy
- Real-time commission tracking
- Automated payment processing
- Performance analytics dashboard