

Creating a litecoin wallet with the specified requirements involves using the Litecoin RPC (Remote Procedure Call) interface and Python. Below is a basic outline of how you can achieve this. Keep in mind that handling private keys and transactions involves security considerations, so make sure to follow best practices.

1. **Install Required Libraries:** First, you need to install the `litecoin_rpc` library, which allows Python to interact with the Litecoin daemon through RPC.

```
bash
```

```
pip install python-bitcoinrpc
```

- **Create Configuration File:** Create a separate configuration file (e.g., `wallet_config.ini`) to store Litecoin RPC connection details, such as username, password, host, and port. Here's an example configuration file:

```
ini
```

```
[rpc]
username = your_rpc_username
password = your_rpc_password
host = 127.0.0.1
port = 9332
```

- **Wallet Implementation:** Now, create a Python script (e.g., `litecoin_wallet.py`) with the following basic structure:

python

```
3. import configparser
   from bitcoinrpc.authproxy import AuthServiceProxy, JSONRPCException

   class LitecoinWallet:
       def __init__(self, config_file_path='wallet_config.ini'):
           self.config = configparser.ConfigParser()
           self.config.read(config_file_path)

           self.rpc_connection = AuthServiceProxy(
               f"http://{self.config['rpc']['username']}:{self.config['rpc']
['password']}@{self.config['rpc']['host']}:{self.config['rpc']['port']}"
           )

       def get_balance(self):
           return self.rpc_connection.getbalance()

       def send_transaction(self, to_address, amount):
           before_balance = self.get_balance()

           try:
               txid = self.rpc_connection.sendtoaddress(to_address, amount)
               print(f"Transaction ID: {txid}")
           except JSONRPCException as e:
               print(f"Error: {e}")

           after_balance = self.get_balance()

           print(f"Before Transaction Balance: {before_balance}")
           print(f"After Transaction Balance: {after_balance}")

   if __name__ == "__main__":
       wallet = LitecoinWallet()

       # Example: Send 0.1 LTC to a specific address
       to_address = "your_destination_address"
       amount = 0.1

       wallet.send_transaction(to_address, amount)
```

#### 4. **Security Considerations:**

- Keep the configuration file secure, and do not expose sensitive information.
- Make sure the Litecoin daemon is running and accessible from the script's host.
- Consider encrypting the configuration file or using environment variables for sensitive information.

#### 5. **Usage:** You can use this wallet implementation in other Python programs by importing the `LitecoinWallet` class and creating an instance of it to automate transactions.

Remember to handle exceptions appropriately and implement additional features as needed for your specific use case. This example provides a basic foundation for creating an automated Litecoin wallet using Python and the Litecoin RPC interface.