

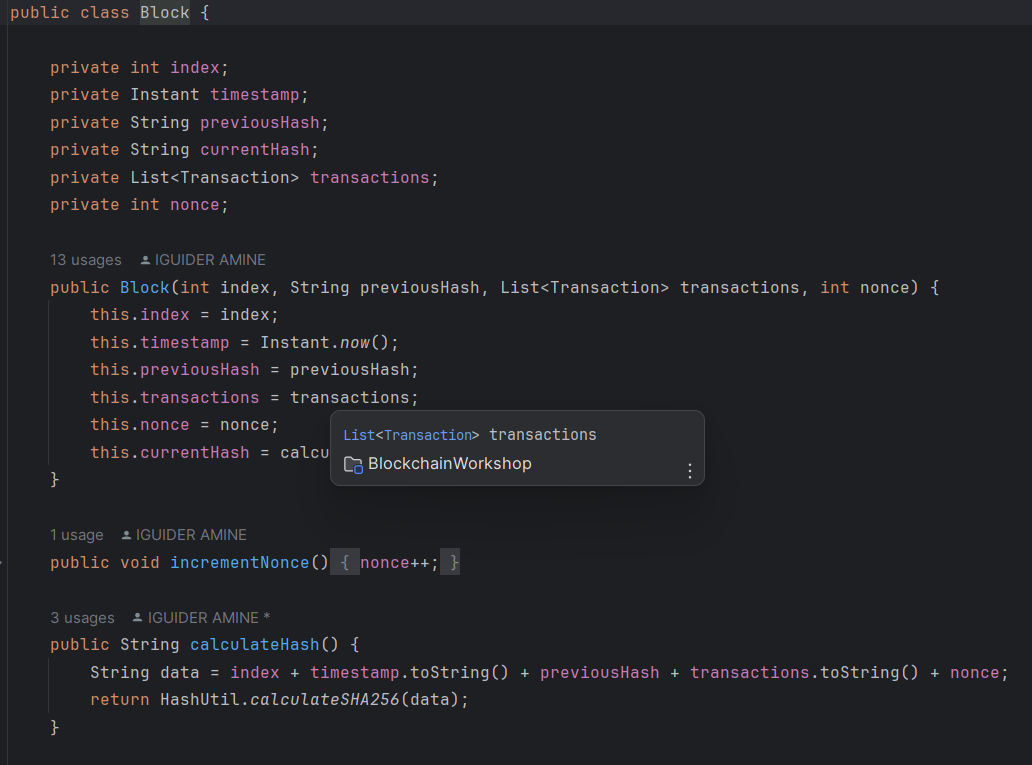
# **Rapport**

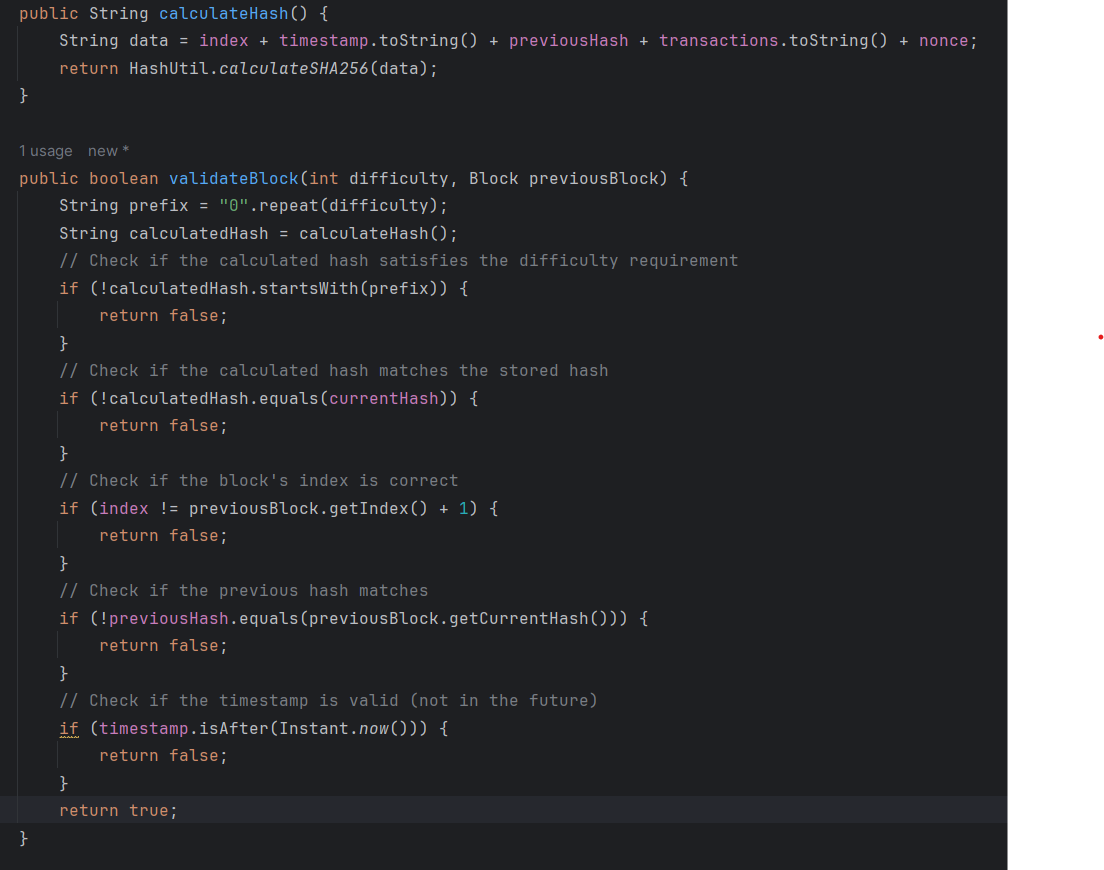


Fait par : IGUIDER Amine

Filière : Master 1 SDIA

**1. Block Class**

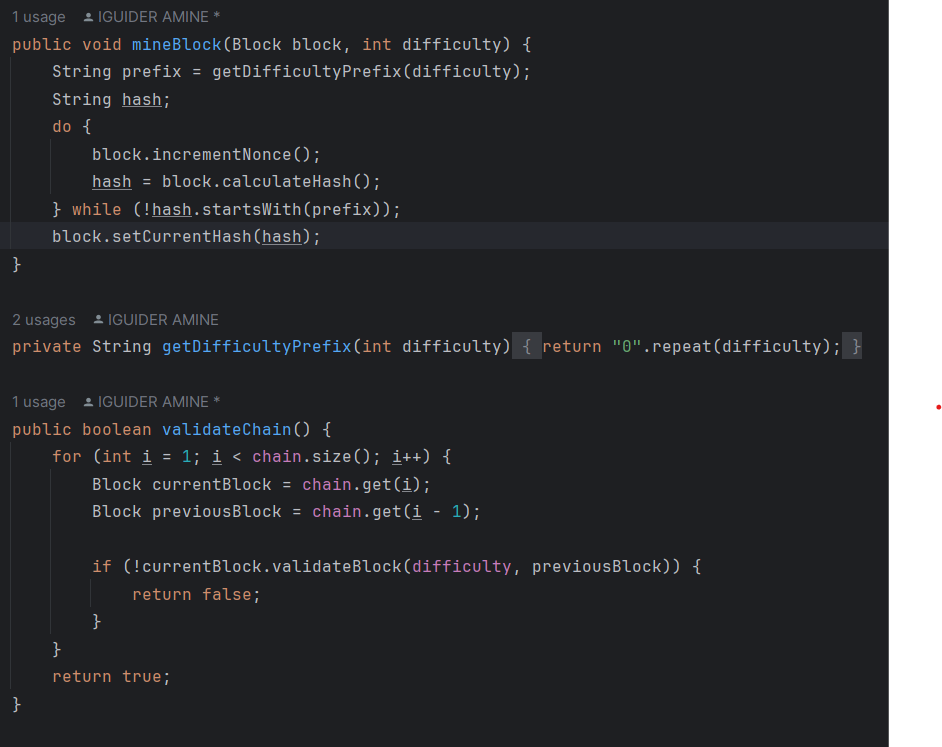




**2. Blockchain Class**

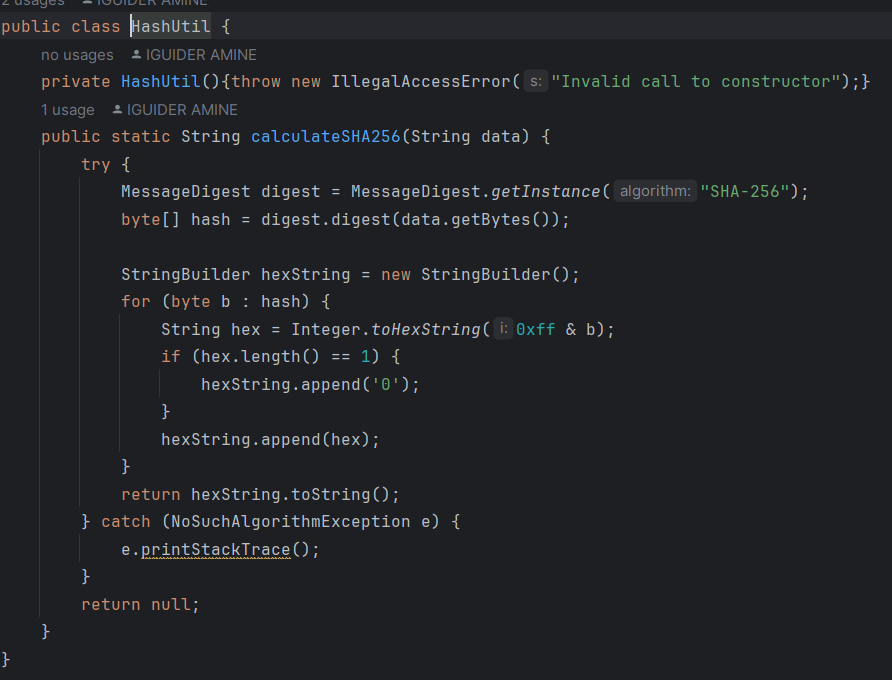




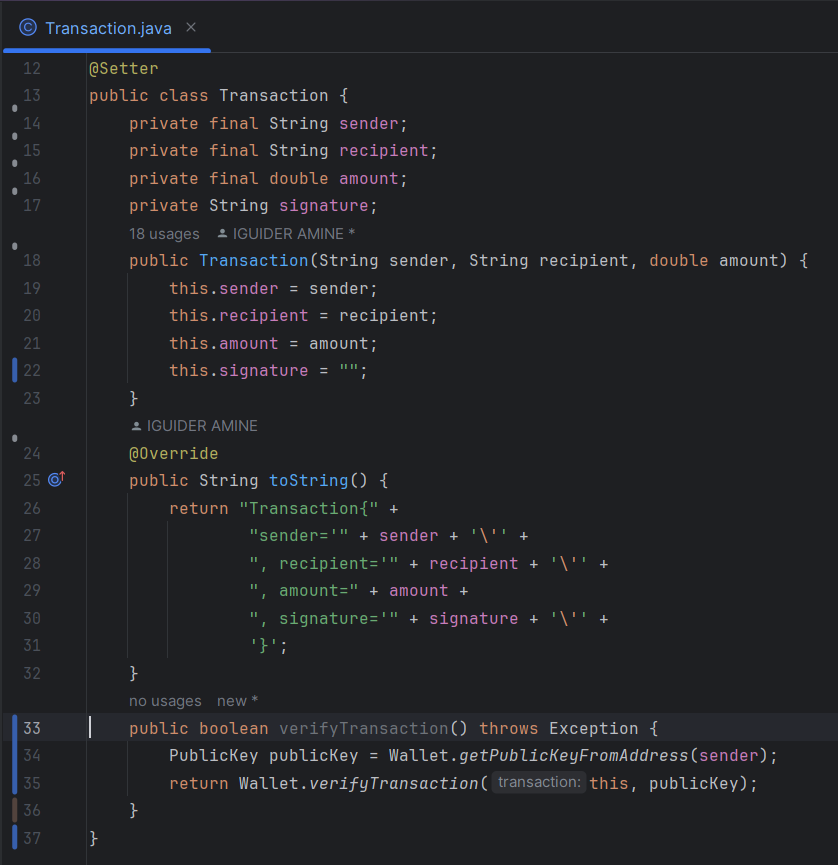


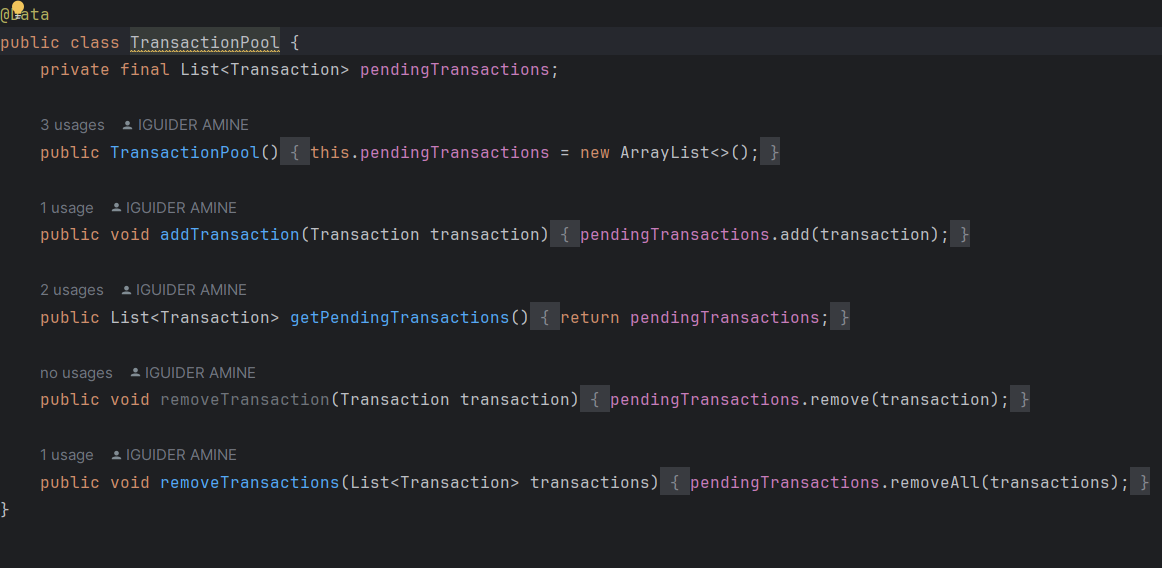


**3. Hashing Function**



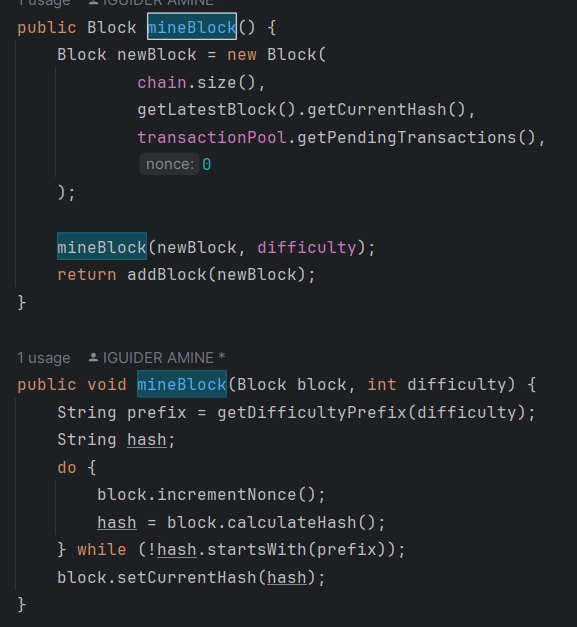
**4. Transaction Pool**



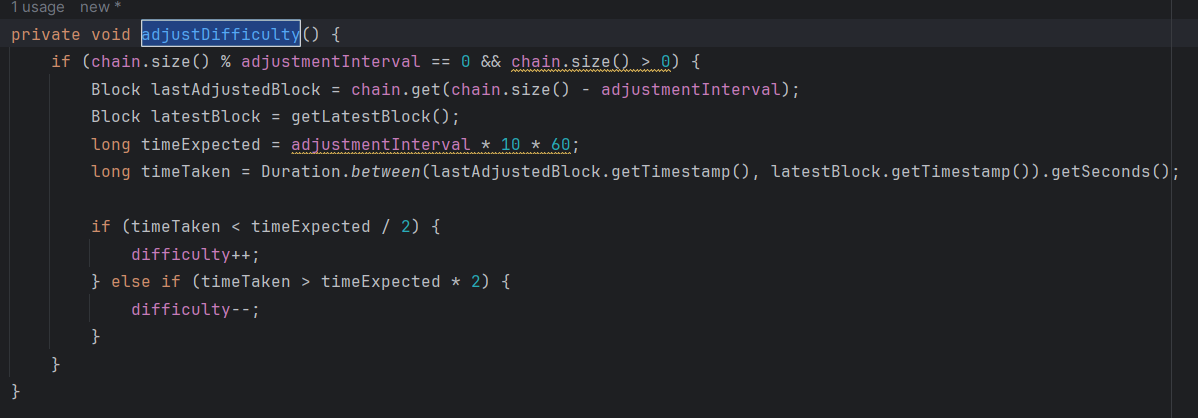


**5. Proof of Work Implementation**

**Method : `mineBlock(Block block, int difficulty)**

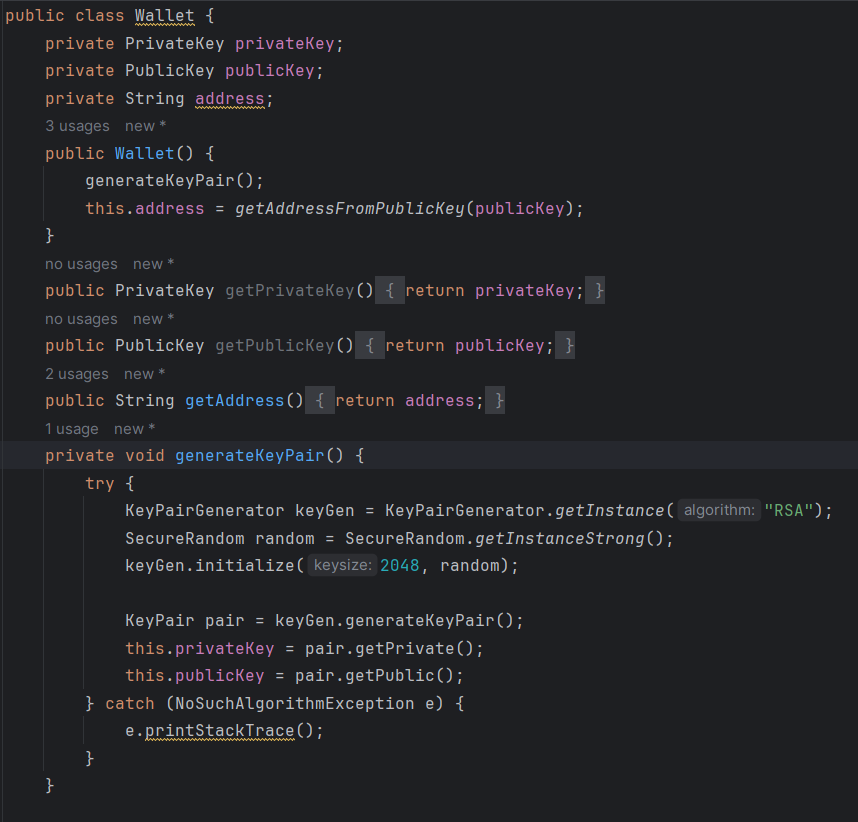


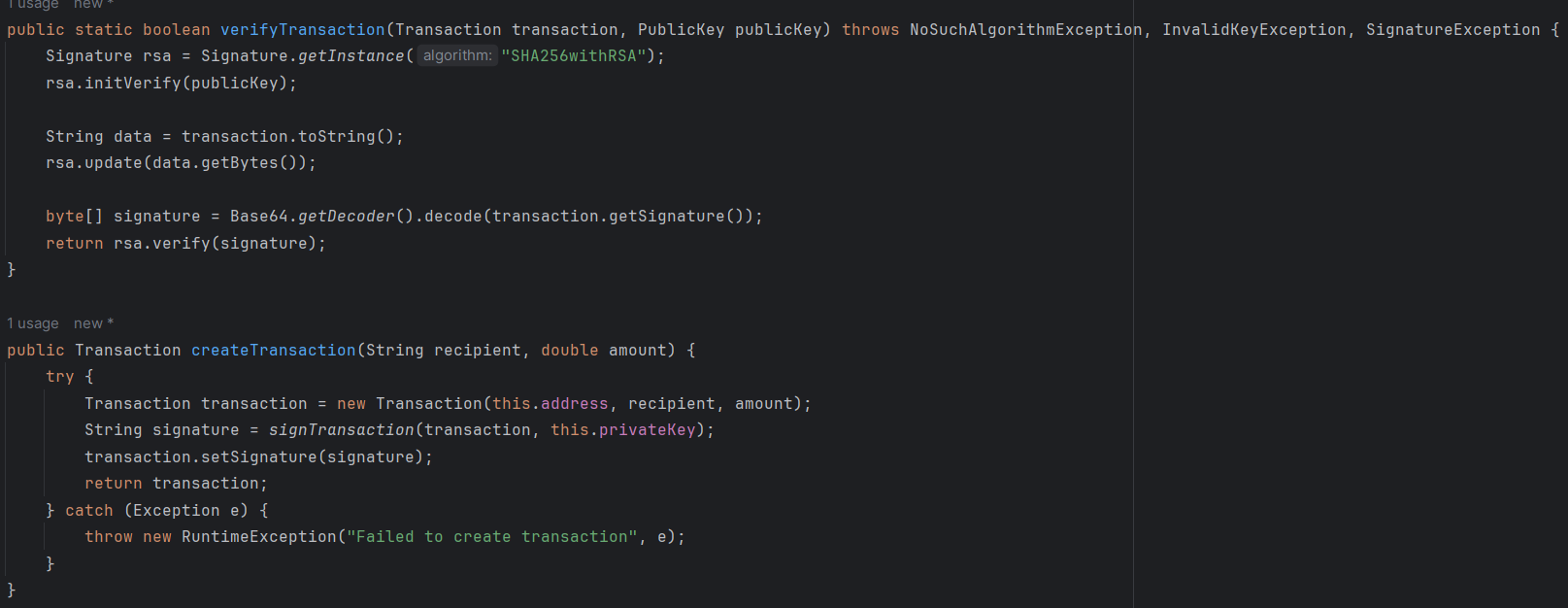
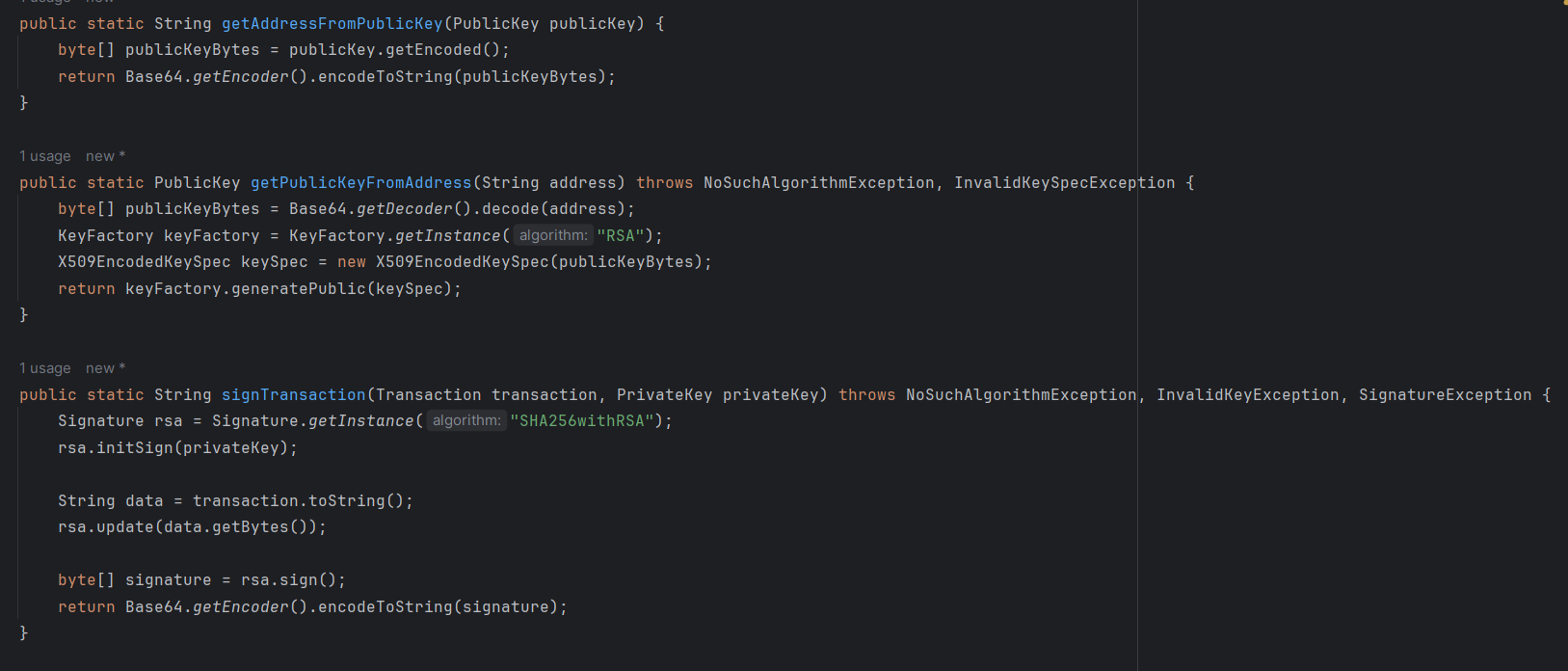
**Method : `adjustDifficulty()`**



**6. Wallet Management**

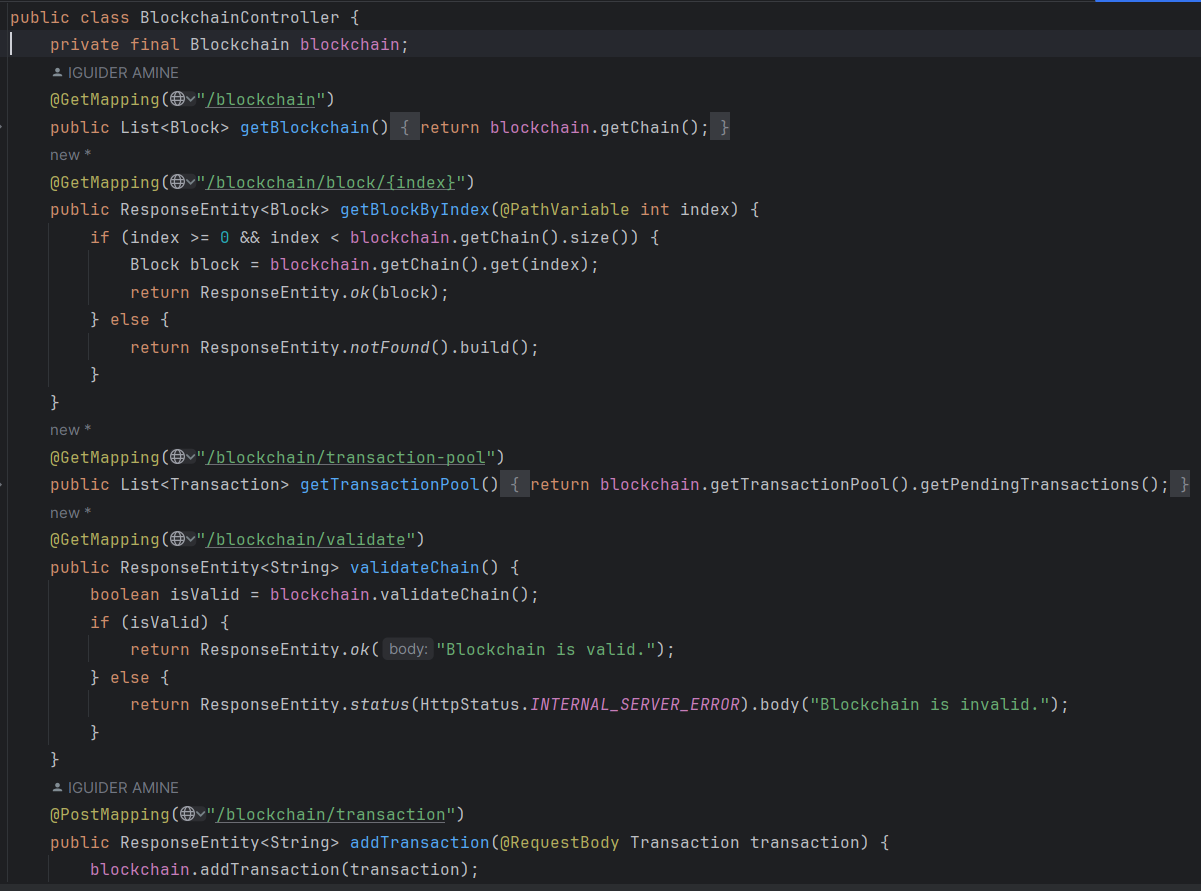
**Class Wallet**

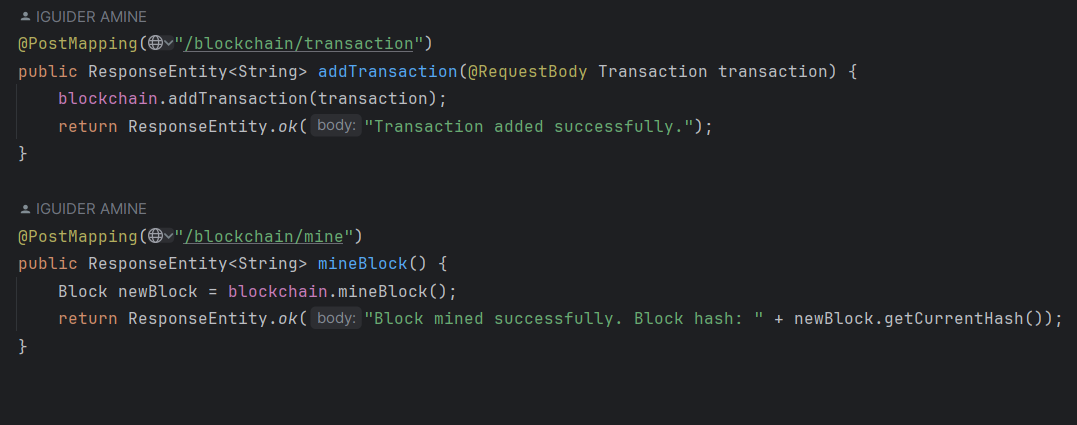




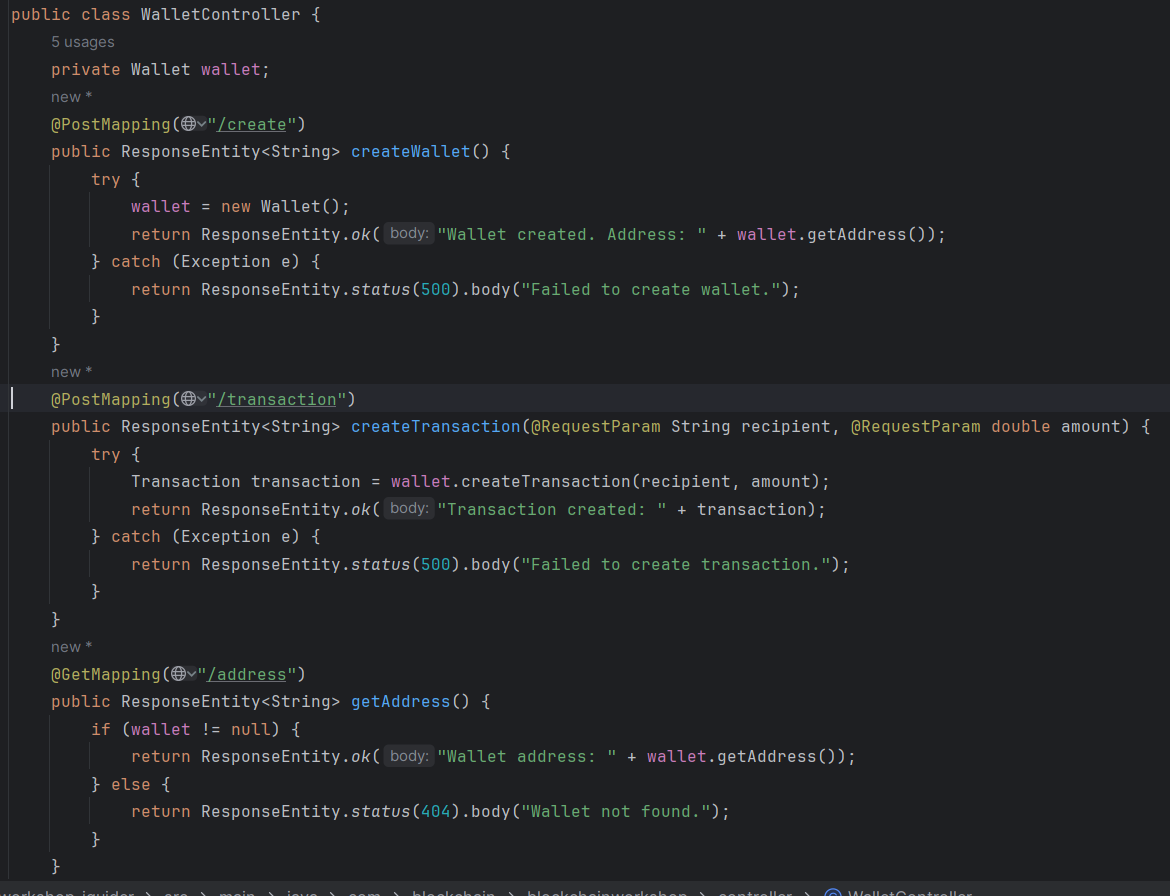
**7. Api**

**BlockchainController**

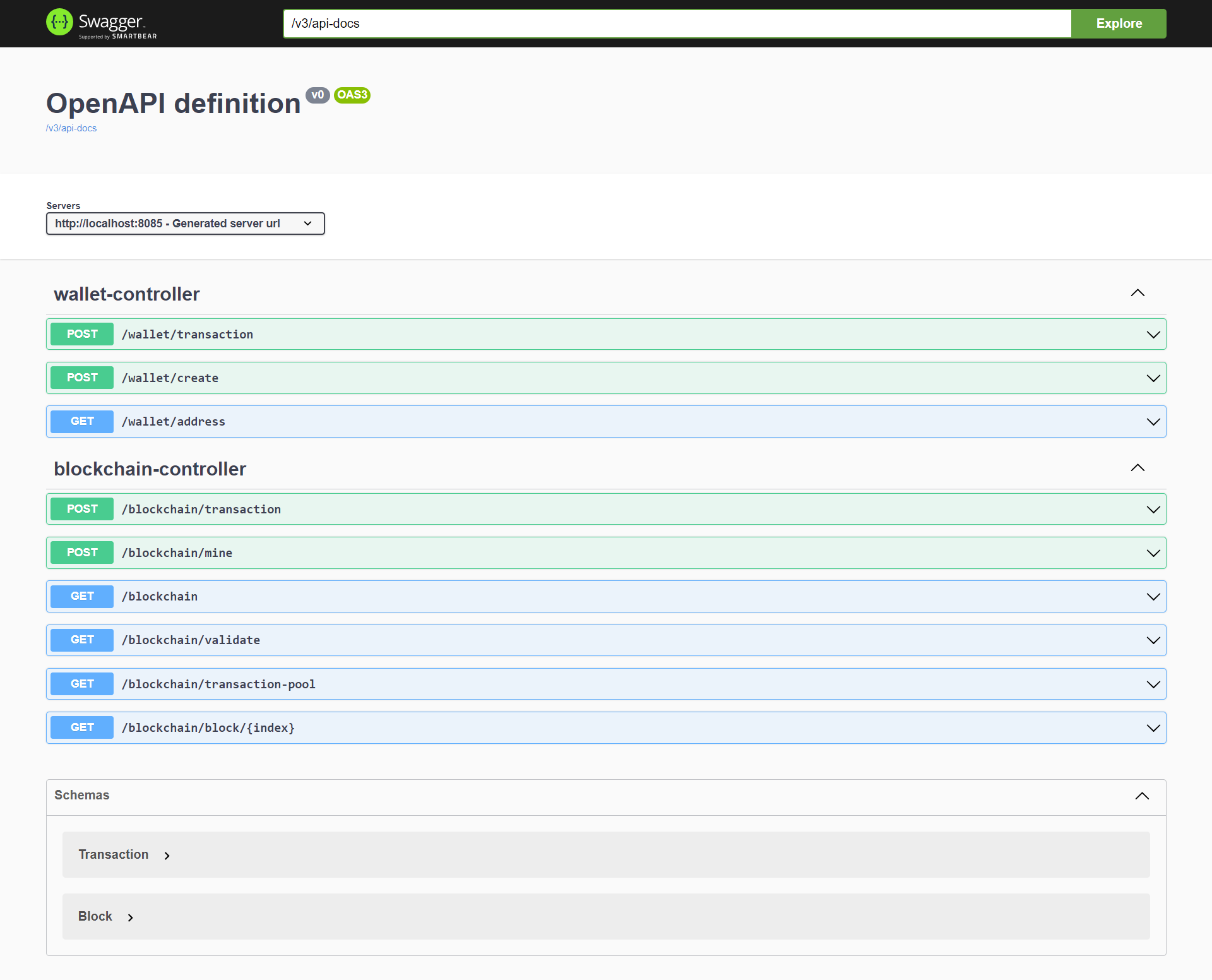




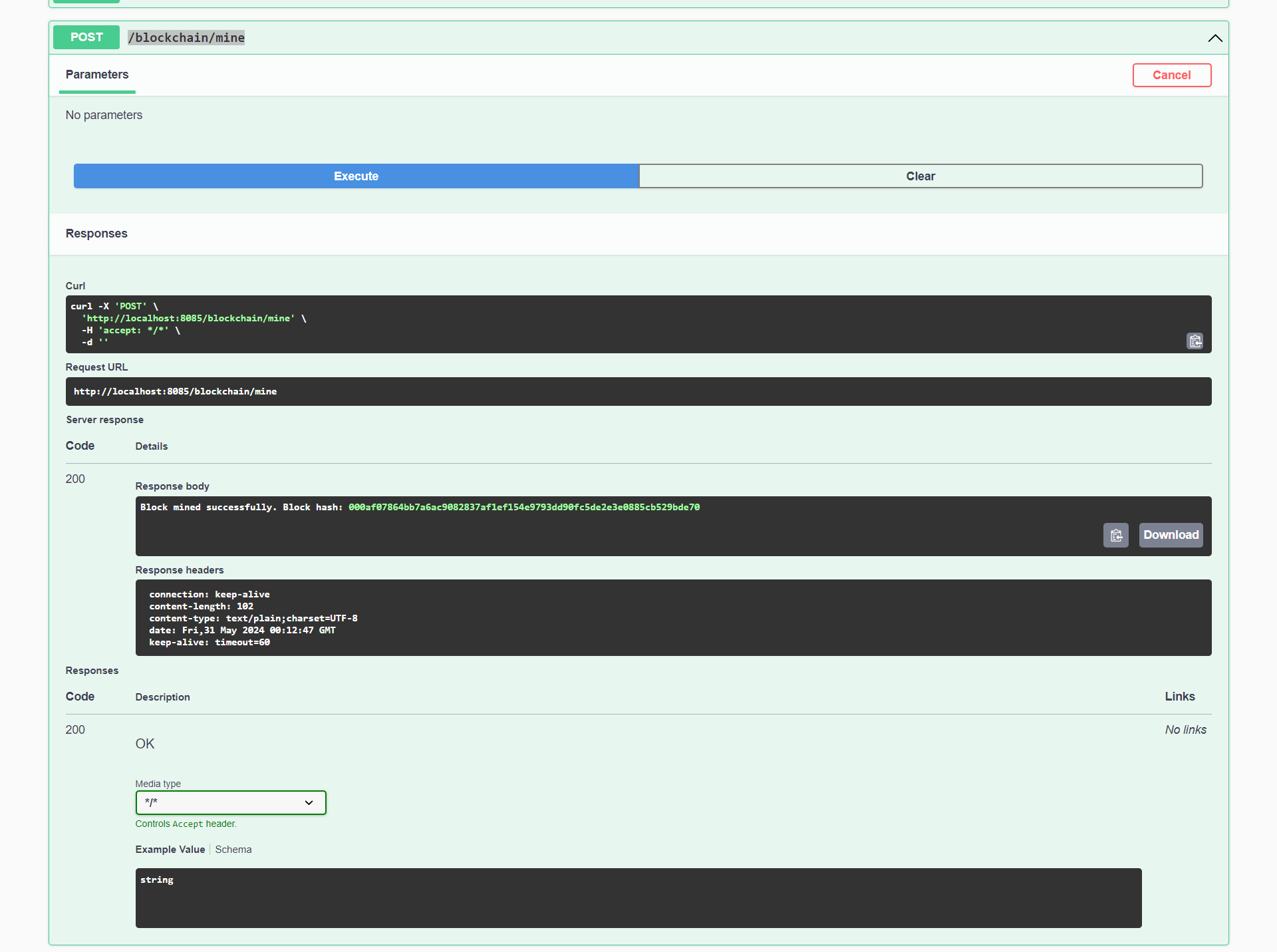
**WalletController**



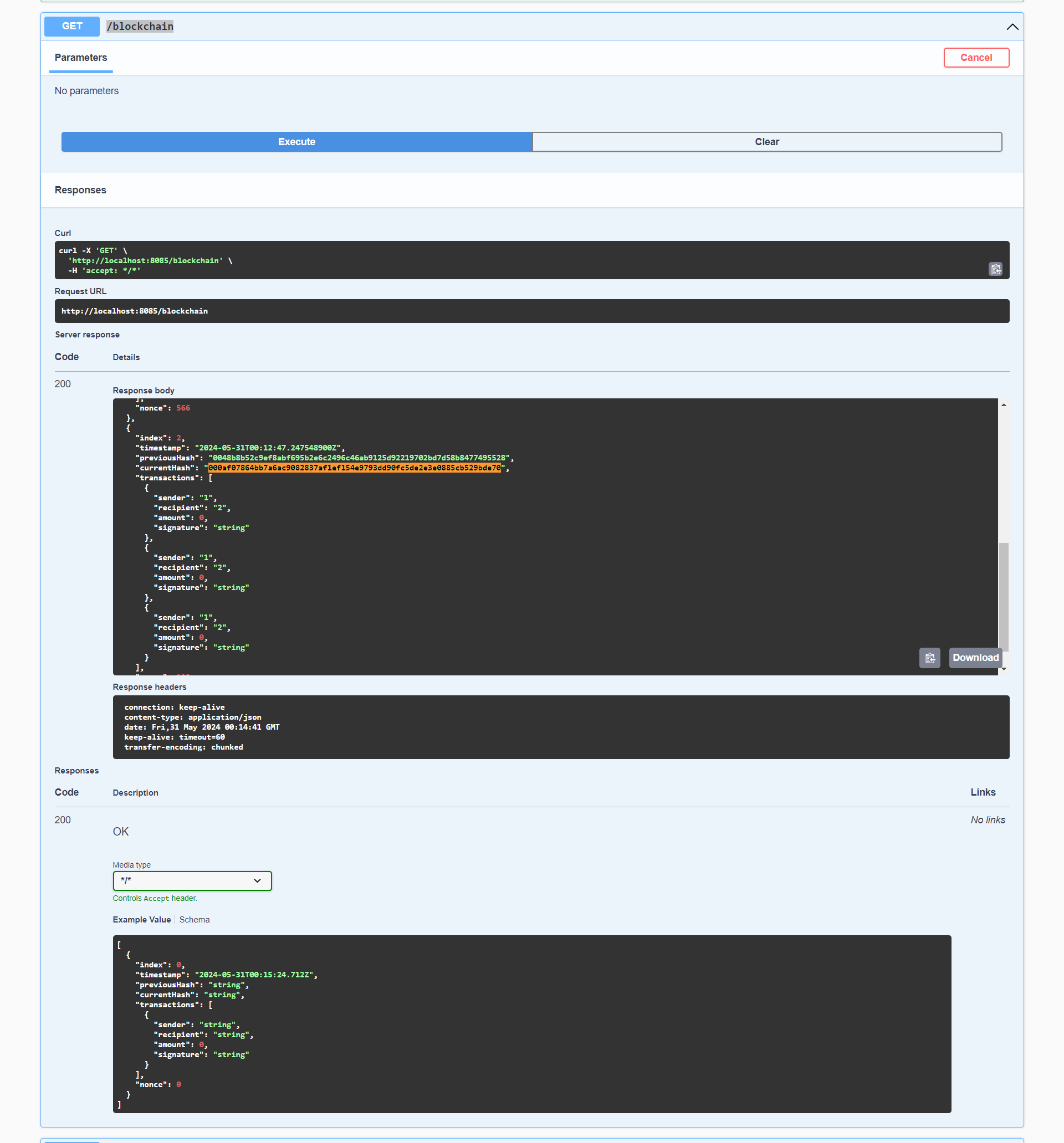
**8. Test Api with Swagger**



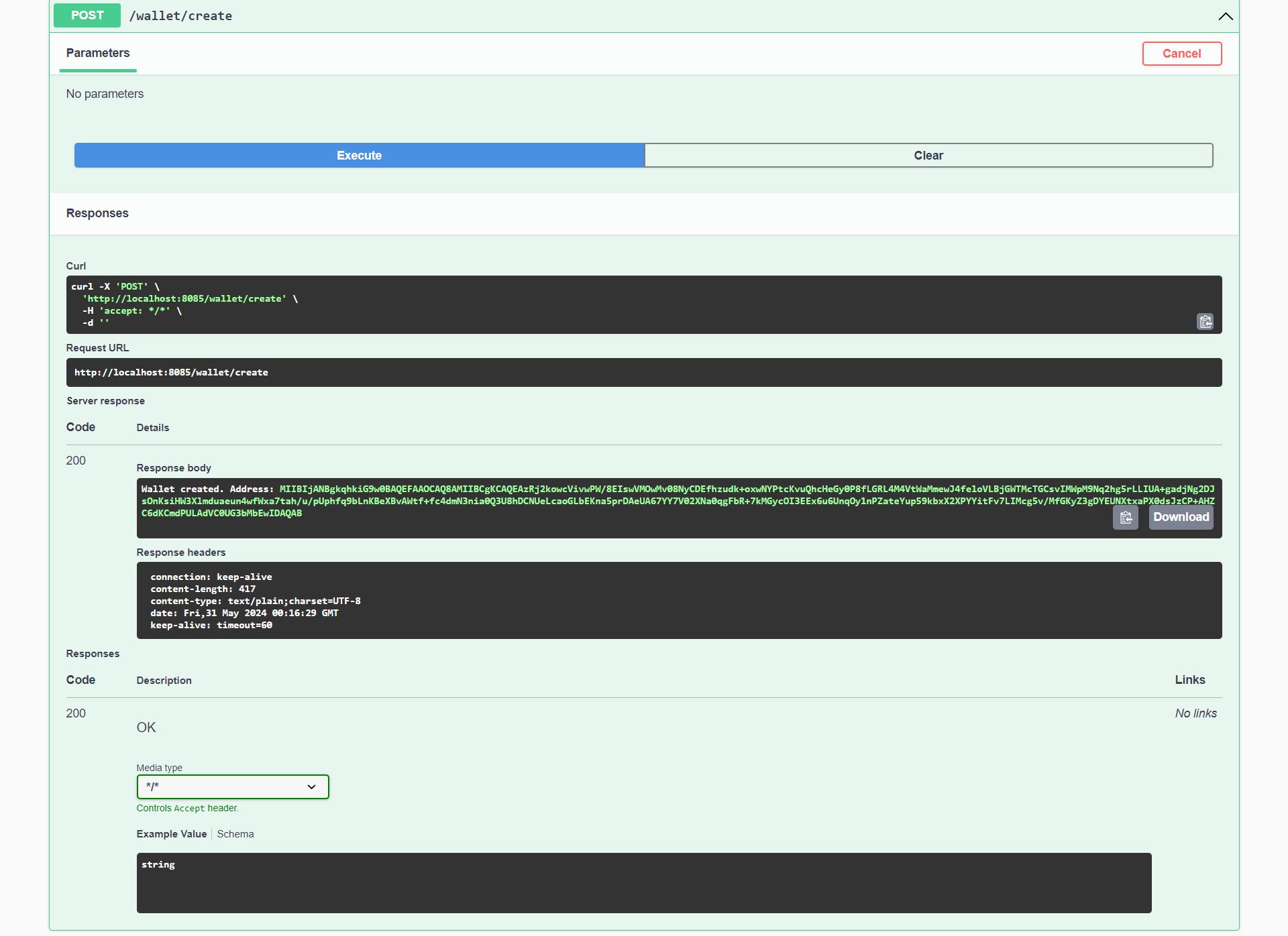
Test api : **/blockchain/mine**



Test api : **/blockchain**



Test api : **/wallet/create**



Test api : **T**[**/wallet/address**](http://localhost:8085/swagger-ui/index.html#/wallet-controller/getAddress)

