__author__ = "7985984, Saghdaou, 8441241, Fischer"

## UserManager

---

# JSON_FILE: str

- data: dict

- users: Dict[str, User]

---

+ __init__()

+ load_data() → dict

+ save_data() → None

+ load_users() → Dict[str, User]

+ add_user(username: str, password: str, role: str, accounts: List[str] = None) → str

+ edit_user(username: str, new_username: str = None, new_password: str = None, new_role: str = None, new_accounts: List[str] = None) → str

+ delete_user(username: str) → str

+ list_users() → str

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## Account

+ department: str
+ balance: float
+ transactions: List[dict]
---
+ to_dict() → dict
+ __repr__() → str

## Transaction

+ account: str
+ type: str
+ amount: float
+ source: str
+ note: str
+ target_account: str = None
+ date: str
---
+ to_dict() → dict
+ __repr__() → str

## AccountManager

# JSON_FILE: str
- data: dict
---
+ __init__()
+ load_data() → dict
+ save_data() → None
+ create_account(name: str) → Dict
+ delete_account(name: str) → Dict
+ deposit(name: str, amount: float, source: str, note: str = "") → Dict
+ withdraw(name: str, amount: float, note: str = "") → Dict
+ transfer(from_account: str, to_account: str, amount: float, note: str = "") → Dict
+ get_transaction_history(name: str) → List[dict]
+ export_account_to_txt(name: str) → None
+ get_all_accounts_summary() → Dict

## User

+ username: string
+ password: string
+ role: string
+ accounts: List[str]
---
+ has_access_to(self, account_name: str): bool
+ to_dict(self): Dict[str, str | List[str]]