7985984, Saghdaou, 8441241, Fischer

UserManager

JOUNTER BY

-date det

-date det

-sers Dottet, User)

- J.M.J. J.

+ bit J.A.D. J.

+ sers_dated / Note

+ sers_dated / Note

+ load_sers() 'Extent / Note

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+ load_sers() 'Extent / Note

+ did_sers(sersman et vice at, accounts bit(de) - Note) + Vice et al. (19)

+ off_sers(sersman et vice at, accounts bit(de) - Note et al. (19)

+ off_sers(sersman et vice at, accounts at vice at, accounts bit(de) - Note et al. (19)

+ off_sers(sersman et vice accounts et al. (19)

- off_sers(sers)

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AccountManager

JROK_TEL ST
- data did:

- __NEL_D
- load_shall did:

- __NEL_D
- load_shall did:

- swe_dest() floor
- creat_account/amen sho) Dot
- dest_account/amen sho) Dot
- despons/amen st, amount float_account/amen sho) Dot
- despons/amen st, amount float_account/amen sho) Dot
- show account st, amount float_account st of ") Dot
- show account st, amount float_account st or ") Dot
- show account st, superior st, amount float_count st or ") Dot
- show account st, superior st, amount float_count st or ") Dot
- starter (show account st, superior st) ! Note
- get_account_superior (Dot)
- get_account_superior (Dot)

Account

- department str
- balance float
- transactions: Lin(det)

- to_det(): det
- __resc__() : str

username: string
 password: string
 rote: string
 rote: string
 accounts: List[str]

- has_acces_lo(self, account_name: str): bool
 + to_dict(self): Dict[str, x = [List[str]]

+ account: str + type: str + amount: float + source: str + note: str + target_account: str = None + date: str + to_clict() : dict TreasurerDashboard

+ root: tk.Tk

- _init__(root: tk.Tk) → None
- depost_,noney() → None
- withdraw_,money() → None
- transfer_,money() → None
- show_transactions() → None
- logout() → None

- contrib.Th
- contrib.Th(contrib.Th) None
- manage_contrib.Th(th) None
- manage_contrib.Th(th) None
- manage_contrib.Th(th) None
- set_contrib.Th(th) None
- set_contrib.Th(th) None
- set_contrib.Th(th) None
- set_contrib.Th(th)
- set_cont

AdminDashboard

FinanceDashboard

+ root: tk.Tk

+ __init__(root: tk.Tk) → None
+ vier_overview() → None
_bccount_history(sccount_history) → Non
+ liquot() → None

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

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

AdminDashboard

+ root: tk.Tk

- users: Dict[str, dict]

- accounts: Dict[str, dict]

+ __init__(root: tk.Tk) : None

+ manage_account() : None

+ add_account() : None

+ save_account(name_entry: tk.Entry, start_saldo_entry: tk.Entry) : None

+ show_account(): None

+ manage_users(): None

+ show_user() : None

+ add_user() : None

+ save_user(username_entry: tk.Entry, password_entry: tk.Entry, role_entry: tk.Entry) : None

+ export_data() : None

+ clear_frame() : None

+ logout(): None

TreasurerDashboard

+ root: tk.Tk

- + __init__(root: tk.Tk) → None
- + deposit_money() → None
- + withdraw_money() → None
- + transfer_money() → None
- + show_transactions() → None
 - + logout() → None

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]]

FinanceDashboard

+ root: tk.Tk

- + $_$ init $_$ (root: tk.Tk) \rightarrow None
- + view_overview() → None
- + view_account_history(account_name: str) → None
 - + logout() → None