UML API Class Diagram: Investor Dashboard

External Client

API

Fund
Properties:
- name
- fund_type
- assets_under_management
- holdings
- avg_pe_ratio
- expense_ratio
Methods:
- add_assets(amount)
- return_assets(amount)
- pay_dividend(amount)
- charge_fee()
- buy_stock(ticker)
- sell_stock(ticker)

ITradable
<<interface>>
Methods:
- trade(amount)

User
Properties:
- username
- session_info
Methods:
- trigger_action(action)

<<implements>>

<<extends>>

HedgeFund
Properties:
- strategy
- leverage
- accredited_investors_only
Methods:
- trade(amount)
- risk_profile()

HedgeFundController
Properties:
- fund
- view
- database
Methods:
- add_assets(amount)
- execute_trade(amount)
- pay_dividend(amount)
- show_fund()

HedgeFundView
Properties:
- current_fund
- last_message
Methods:
- display_fund(fund)
- show_message(msg)
- render_portfolio_view()
- render_fund_detail_view()
- render_transaction_view()

Database
Properties:
- db_file (funds.db)
Methods:
- save_fund(fund)
- load_fund(fund_id)
- save_transaction(txn)
- load_transactions(fund_id)