Functional Requirements: Investor Dashboard

The following requirements have been established to ensure the successful implementation of the Investor Dashboard C# project.

| **ID** | **Requirement** | **Notes** | **Priority** |
| --- | --- | --- | --- |
| 1.1 | The system provides a login page which takes a username and password for user authentication. | Credentials are stored securely in the database using salted and hashed passwords. | 1 |
| 1.2 | The system provides a portfolio overview listing all hedge funds managed by the user. | Display manager's name, "PORTFOLIO OVERVIEW" header, Total Assets Under Management (AUM), Total Funds, Total Holdings. | 1 |
| 1.3 | The system allows the user to add a hedge fund. | The user can specify the fund name when adding a new hedge fund. | 1 |
| 1.4 | The system provides a page displaying a specific hedge fund's information. | Display Fund Name, Fund Type, Fund Manager, and FUND SUMMARY METRICS: Total Assets Under Management (AUM), Average P/E Ratio, Expense Ratio, Leverage. | 1 |
| 1.5 | The system provides an asset allocation table for a specific hedge fund's holdings. | Table columns: Symbol, Company Name, Shares, Price, and Value. | 1 |
| 1.6 | The system allows the user to add capital, withdraw funds, charge fees, and buy or sell stocks within a hedge fund. | Operations include: Add Capital, Withdraw Funds, Charge Fee, Buy Stock, Sell Stock. Updates reflected in portfolio and financial metrics. | 1 |

A diagram of a financial dashboard

AI-generated content may be incorrect.

Test Document: Investor Dashboard

This document identifies the requirements and corresponding test cases necessary to ensure the successful implementation of the Investor Dashboard C# project.

| **Test ID** | **Functional Requirement** | **Test Description** | **Expected Result** | **Priority** | **Components Tested** |
| --- | --- | --- | --- | --- | --- |
| T1 | 1.1 Login | Enter valid username/password | User is successfully authenticated and granted access | 1 | Program, HedgeFundController, HedgeFundView, Database |
| T2 | 1.1 Login | Enter invalid username/password | Access denied with error message | 2 | Program, HedgeFundController, HedgeFundView, Database |
| T3 | 1.2 Portfolio Overview | Load portfolio page | Displays all managed hedge funds with manager name, AUM, Total Funds, Total Holdings | 1 | Program, HedgeFundView, HedgeFundController, Database, HedgeFund |
| T4 | 1.3 Add Hedge Fund | Add new fund with valid name | Fund is added successfully, appears in portfolio | 1 | Program, HedgeFundController, HedgeFundView, HedgeFund, Database |
| T5 | 1.3 Add Hedge Fund | Add new fund with invalid or empty name | System prevents addition and shows validation error | 2 | Program, HedgeFundController, HedgeFundView, Database |
| T6 | 1.4 View Hedge Fund Info | Open a specific hedge fund | Displays Fund Name, Fund Type, Fund Manager, AUM, Avg P/E, Expense Ratio, Leverage | 1 | Program, HedgeFundView, HedgeFundController, HedgeFund, Database |
| T7 | 1.5 Asset Allocation Table | Open holdings for a fund | Table shows Symbol, Company Name, Shares, Price, Value | 1 | Program, HedgeFundView, HedgeFundController, HedgeFund, Database |
| T8 | 1.6 Add Capital | Add funds to a hedge fund | AUM updated, portfolio reflects new total | 1 | Program, HedgeFundController, HedgeFund, Fund, ITradable, Database |
| T9 | 1.6 Withdraw Funds | Withdraw funds from a hedge fund | AUM updated, portfolio reflects deduction | 1 | Program, HedgeFundController, HedgeFund, Fund, ITradable, Database |
| T10 | 1.6 Charge Fee | Apply fee to a hedge fund | AUM and financial metrics updated correctly | 2 | Program, HedgeFundController, HedgeFund, Fund, ITradable, Database |
| T11 | 1.6 Buy Stock | Buy shares of a stock | Holdings table updates shares, value calculated correctly | 1 | Program, HedgeFundController, HedgeFund, Fund, ITradable, Database |
| T12 | 1.6 Sell Stock | Sell shares of a stock | Holdings table updates shares, value calculated correctly | 1 | Program, HedgeFundController, HedgeFund, Fund, ITradable, Database |