Cairo University  
Faculty of Computers and Artificial Intelligence

**CS251**

**Intro. to Software Engineering**

**Tharwa**

Software Requirements Specifications

Version 1.0

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# Team

|  |  |  |  |
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# Purpose This document outlines the functional, non-functional, and technical requirements for the Personal Investment Management Software. It defines the system's purpose, features, scope, and key technologies to guide the development process. Audience 1) Software Developers

# 2) Project Managers

# 3) UI/UX Designers

# 4) Testers & Quality Assurance Engineers

# 5) Stakeholders

## 

**Introduction**

## Software Purpose This app is designed to provide individuals with the ability to track and manage their financial investments across multiple asset types, including stocks, real estate, savings, and cryptocurrencies. Since one of our goals is to enhance financial literacy, we have added interactive learning modules to help users develop smarter money management habits. Additionally, the software automates budgeting and debt repayment to improve financial stability, offering personalized insights and recommendations based on real-time financial data. By integrating various financial sources and visualizing investment performance, this software enables users to make well-informed decisions and take control of their financial future.

## Software Scope

## Portfolio Tracking – Monitor different assets and analyze investment performance.

## Financial Education – Interactive modules, quizzes, and AI-driven insights for money management.

## Goal-Based Budgeting – Set and track income, savings, and retirement goals.

## Debt Management – Automate debt repayments using a predefined percentage of income.

## Risk & Asset Allocation – Help users diversify investments and manage risks.

## Real-Time Data Integration – Sync with banking systems, brokerage accounts, and stock exchanges.

## Visualization & Reports – Provide detailed charts and graphs for financial analysis.

## 

## Definitions, acronyms, and abbreviations

|  |  |
| --- | --- |
| Phrase | Definition |
| ROI (Return on Investment) | A financial metric that calculates the profitability of an investment. |
| Portfolio Tracking | Monitoring different assets and investments in real-time. |
| Asset Allocation | The strategy of diversifying investments across different asset classes. |
| Net Worth Computation | A feature that calculates a user’s total financial worth (assets - liabilities). |
| API (Application Programming Interface) | A set of protocols for integrating with banking systems, stock exchanges, and payment gateways. |
| Debt Management | Features that automate debt repayment using a predefined percentage of monthly income. |
| Unbanked & Underbanked | |  | | --- | |  |  |  | | --- | | Individuals without full access to traditional banking services, relying on cash or mobile wallets. | |
| Cloud-Based Deployment | Hosting the application on cloud services such as AWS, Google Cloud, or Azure for scalability. |

## Functional Requirements

|  |  |
| --- | --- |
| Requirement ID | Requirement Statement |
| FR01 | The First screen appears to the user is the login/sign-up screen |
| FR02 | The application will redirect to the screen showing to two input boxes for the username and password in case the user chooses to log in . |
| FR03 | The application checks the registered credentials for security and to enable the user to log in. Also, he could reset his/her password through sending link to his/her email |
| FR04 | The application will show the signup screen if the user chooses to sign up showing some required fields to fill in such as name, username, password, email, phone number, country, city, National ID, Bank account number and Different investments. |
| FR05 | The application will redirect you to your dashboard which consists of:Some computations of net-worth and rate of investment  1. **Some graphs and visualizations** displaying how the investment flows and how much more do I need to reach the specified financial target. 2. **The financial obligations** that must be settled at specific times . 3. **Presenting and auto-tracking the last updates in the investments .** |
| FR06 | Also, the application provides some functionalities that could be done by viewing a panel to choose from as follows:  1. **Setting new targets**, as the investor has continuously renewable targets. 2. **Adding new investment sources and integrating them with the account**, as the growth of the investment the investor makes more investments through time so, the addition part is important for that reason. 3. **Identifying potential risks**, analyzing them and balances investments , which helps the users minimize risks and loss. 4. **Suggestions for enlarging your investments**. 5. **Providing some tutorials and educational activities** to learn how to invest efficiently and professionally and with minimizing risks . 6. **Offers retirement planning** , helping the users to plan for their retirement savings . 7. **Requesting assistance in managing the saving process**. 8. **Changing some information** for the user. |

## Non Functional Requirements

|  |  |
| --- | --- |
| Measures | Details |
| Performance | The login\sign-up page should take less than 1 second to appear.  * After the user enters his information, showing the dashboard should take less than 3 seconds. * The Dashboard should appear immediately after login in time end. * The system should respond to user actions within 2 seconds for 95% of requests * The application should handle at least 10,000+ concurrent users without performance degradation. * The app size should be low for all the low-end devices and old ones. * The app should put a limit for a transaction of money be less than or equal to 20,000 EGP |
| Scalability | The system should scale to 1milion+ user without downtime |
| Reliability and availability | If a server fails, requests should be redirected to a backup server within 5 seconds to prevent downtime. |
| Security | All user data and transactions should be fully encrypted.  * Users must authenticate using authentication apps for enhanced security * Use machine learning models to detect unusual transactions and block fraudulent activities. * Limit access based on user roles (e.g., admin, investor, customer support) to prevent unauthorized access. * Conduct monthly security tests to find and fix vulnerabilities before attackers do. |
| Usability | The platform should be easy to use with a clear dashboard and real-time graphs.  * The system must work seamlessly across mobile, tablets, and desktops, adapting to screen sizes dynamically. |
| Portability and compatibility | The application should work on Windows, macOS, Linux, iOS, and Android without performance issues.  * App should support for multiple payment methods * App should be multilingual, as it should be available in Arabic, English, and other regional languages. |

## 

## Use Case Model

* **Using UML, write the use case model expressing the system actors & operations**

* **Investor:** Represents users who invest in various financial instruments.
* **Retail Investor**: Individual investors with small capital.
* **Institutional Investor**: Companies, banks, or funds managing large investments.
* **High-Net-Worth Individual :** Wealthy individuals making high-value investments.
* **Other Systems:** External systems interacting with the investment system.

## Enriched User Stories

* **User Story #1**

|  |  |
| --- | --- |
| **User Story ID** | US #1 |
| **User Story Name** | Signup for user |
| **Actors** | User |
| **Description** | **As** a User  **I like** to be able to sign up to the application  **So** I can login in and use the application |
| **Per condition** |  |
| **Post condition** | National ID should not be duplicated with the data base |
| **Acceptance Criteria** | **Given** I’m a user and I’m on the login in page  **When** I fill in the sign up information fields with my credentials and I click sign up  **Then** the system signs me up |

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- Click on sign up |  |
|  | 2- System Show data that is required |
| 3- User Fill the input fields with data |  |
|  | 4- System verify that this national id is not in system  6- Show the dashboard to the user |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- Click on sign up |  |
|  | 2- Show the data should be entered |
| 3- User fill the input fields with his data |  |
|  | 4- system verify that national id is not in system  5- Show the user that this national id signed up before |

* **Screen Design**
* **Data Dictionary**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Name field | Text < 100 character | Structured text |
| Email | Text < 100 character | Structured text |
| Password | Alphanumeric> 8 and < 20 | Password confirmation and must  include an uppercase letter, numbers  and/or special characters |
| National ID | Numeric equal to 14 digits | Check it in the database of civil registry |
| Phone number field | Numeric < 15 digit | Confirmed by text message |

* **User Story #2**

|  |  |
| --- | --- |
| **User Story ID** | US #2 |
| **User Story Name** | login for user |
| **Actors** | User |
| **Description** | **As** a User  **I like** to be able to login to the application  **So** I can see dashboard and use the application |
| **Per condition** |  |
| **Post condition** | Email and password are correct |
| **Acceptance Criteria** | **Given** I’m a user and I am on the login in board  **When** I fill in the login information fields with my email and password and I click sign up  **Then** the system logins me in |

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- Click on login in |  |
|  | 2- System Show data that is required |
| 3- User Fill the input fields with data |  |
|  | 4- System verify that email and password are correct.  5- Show the dashboard to the user |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- Click on login |  |
|  | 2- Show the data should be entered |
| 3- User fill the input fields with his data |  |
|  | 4- system verify that email and password to be correct  5- Show the user that email or password is wrong and enter them again |

* **Screen Design**
* **Data Dictionary**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Email | Text < 100 character | Structured text |
| Password | Alphanumeric> 8 and < 20 | Password confirmation and must  include an uppercase letter, numbers  and/or special characters |

* **User Story #3**

|  |  |
| --- | --- |
| **User Story ID** | US #3 |
| **User Story Name** | Dashboard of user |
| **Actors** | User |
| **Description** | **As** a User  **I like** to see done operation, computation of net-worth , rate of investment , total funds and financial obligation, visualization and graphs for income and exchange  **So** I can login in and use the application |
| **Per condition** | Login or sign up is done |
| **Post condition** |  |
| **Acceptance Criteria** | **Given** I’m a user and I’m on dashboard  **When** I end the sign in or the login.  **Then** the system shows me the done operation, computation of net-worth , rate of investment , total funds and financial obligation, visualization and graphs for income and exchange |

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- user open the dash board |  |
|  | 2- Make the graph and visualize for income and exchange.  3- Show the visualization. |
|  | 4- Show total funds and financial obligation.  5- Show the done operation and computation of net-worth and rate of investment. |
|  | 6- Show the buttons that go to control panel and tracking for last updates |

**Screen Design**

* **User Story #4**

|  |  |
| --- | --- |
| **User Story ID** | US #4 |
| **User Story Name** | Identify Risks |
| **Actors** | Investors |
| **Description** | **As** an Investor  **I like** to identify the potential risks .  **So** I will decrease the potential loss. |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given** I am on the control panel and want to identify the risks  **When** I clicked the button to identify the risks  **Then** the system shows small list to choose which one I want to identify its potential risks. |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- User clicks the button of identifying potential risks. |  |
|  | 2- System shows a small list of the investments or in general |
| 3- the user chooses an option from the listed options |  |
|  | 4- System shows some computations and predications associated with some graphs for identifying the potential risks. |

**Exceptional Scenario**

**There is no exceptional scenario here**

**Screen Design**

**Give a draft design of the screen(s) on which this user story will be implemented.**

**Do it as a as wireframe or a mockup. Use a tool to do that. Give each screen a number and name.**

* **Data Dictionary:**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Specified investment | Dropdown | No validation |

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **User Story #5**

|  |  |
| --- | --- |
| **User Story ID** | US #5 |
| **User Story Name** | Adding new investment sources |
| **Actors** | Other systems and investor |
| **Description** | **As** an investor  **I like** to be able to add new investment sources to connect it to my account  **So** I will be able to increase my investments |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given** I clicked on the button of adding new investment sources  **When** I choose which investment type I will add to my account and the system redirects me to a form requires data to be filled about the added item and  **Then** I fill in the required data of the investment source depending on the type of the added item with some verifications then The system after that will add it successfully . |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- User chooses to add new investment source |  |
|  | 2- System redirects to a small list to choose from it the type of the item |
| 3- User Select one of them |  |
|  | 4- the system shows a form to fill required data |
| 5- user fills the required data fields  6- Click Submit |  |
|  | 7- System makes the following processes:   1. Verifying bank/other system account ownership with the bank /other system 2. Ensuring product details match the bank’s/other system’s data with the bank /other system 3. Applying security measures   8- The system redirects you to the control panel and adds your new item after verifications. |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1. User fills the required data fields 2. Click Submit |  |
|  | 3- The data do not match or some security tests failed .  4- System rejects the added item and displays the operation is denied. |

* **Screen Design**

**Give a draft design of the screen(s) on which this user story will be implemented.**

**Do it as a as wireframe or a mockup. Use a tool to do that. Give each screen a number and name.**

* **Data Dictionary:**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Linked bank/other system account number ownership | Text<16 | Validating that account exists or active in the bank/other system or not |
| Issuer | Dropdown | Validation that should be filled |
| Interest rate | Integer<30 | Validation for the limits and integer |
| Investment Start Date | Date <15 characters | DD/MM/YY format |
| Maturity Date | Date <15 characters | DD/MM/YY format |

* **User Story #6**

|  |  |
| --- | --- |
| **User Story ID** | US #6 |
| **User Story Name** | Suggestion for enlargement |
| **Actors** | Investor |
| **Description** | **As** an investor  **I like** to be able to have some suggestions for enlargement  **So that** will help me to take decisions |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given** I want to have some suggestions  **When** I clicked the button for suggesting for enlargements  **Then** the system shows me a list for which investment I need suggestions for. |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1. user chooses the option suggestions for enlarging the investment |  |
|  | 2- System shows a list to choose which one of your investments you want suggestion for or for general |
| 3- User Select from the list whether something specific or in general |  |
|  | 4- System gives some suggestions for the chosen one  5-Asking for implementation that and track it or not |
| 6- The user answers the question whether to implement it and track it or not |  |

**Exceptional Scenario**

**There is no Exceptional Scenario**

* **Screen Design**

**Give a draft design of the screen(s) on which this user story will be implemented.**

**Do it as a as wireframe or a mockup. Use a tool to do that. Give each screen a number and name.**

* **Data Dictionary:**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Specified investment or general | Dropdown | No validation |
| Answer for yes or no | Radio button | No validation |

* **User Story #7**

|  |  |
| --- | --- |
| **User Story ID** | US #7 |
| **User Story Name** | Setting target |
| **Actors** | Investor |
| **Description** | **As** an investor  **I like** to be able to set a target for my investments  **So that** will help me as reminder for achieving that target |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given** I want to set a target  **When** I clicked the button for setting a target  **Then** the system shows me a list for which investment I need to set a target for. |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- user chooses the option to set a target |  |
|  | 2- System shows a list to choose which one of your investments you want to set a target for or for general |
| 3- User Select from the list whether something specific or in general |  |
|  | 4- System shows a form to fill it |
| 5- The user fills the required fields  6- clicks submit |  |
|  | 7- The system adds it to the targets |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1. User fills the required data fields 2. Click Submit |  |
|  | 3- Verify for the logic of the data in case of wrong , system prompts an error message. |

* **Screen Design**

**Give a draft design of the screen(s) on which this user story will be implemented.**

**Do it as a as wireframe or a mockup. Use a tool to do that. Give each screen a number and name.**

* **Data Dictionary:**

| **Element Label** | **Type/Length** | **Data Validation / Business Rule** |
| --- | --- | --- |
| Specified investment or general | Dropdown | No validation |
| financial percent target to reach | 0<Integer<100 | Validate to be in the range of the percentage |
| the start time of the target | Date<15 characters | DD/MM/YY format |
| the end point of the target | Date<15 characters | DD/MM/YY format |
|  |  |  |
|  |  |  |

* **User Story #8**

|  |  |
| --- | --- |
| **User Story ID** | US #8 |
| **User Story Name** | change some user information |
| **Actors** | User/investor |
| **Description** | **As** an investor  **I’d like** to be able to edit my personal info  **So** I can keep my details up to date in case of any changes or mistakes |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given**  I am a signed-in (registered) user and I am on the control panel **When**  I click on the edit option, select the information to update, and submit the changes **Then**  the system successfully saves my updated information and provides confirmation |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- user clicks to edit |  |
|  | 2- system verifies user is registered 3- System displays user information |
| 4- User makes changes then submits |  |
|  | 5- System validates input and saves changes 6- System confirms the update with a success message |
|  |  |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- user clicks to edit |  |
|  | 2- system verifies user is registered 3- System displays user information |
| 4- User enters invalid data (e.g., wrong email format) |  |
|  | 5- System notifies the user that the update failed and suggests retrying later |

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* **User Story #9**

|  |  |
| --- | --- |
| **User Story ID** | US #9 |
| **User Story Name** | setting retirement target |
| **Actors** | User/investor |
| **Description** | **As** an investor  **I’d like** to set my retirement target  **So** I can plan my savings and financial goals |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given**  I am a registered and logged-in user on the retirement planning page **When**  I enter my retirement target (age, savings goal, expected expenses, etc.) and submit it **Then**  the system should save my target and confirm the update. |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- User navigates to the retirement planning section. |  |
|  | 2- System loads the retirement planning interface |
| 3- User enters the retirement target details (age, savings goal, etc.). |  |
|  | 5- System validates the input. 6- System saves the retirement target and displays a success message. |
|  |  |
|  |  |
|  |  |
|  |  |

**Exceptional Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- User enters an invalid target (e.g., negative age, unrealistic savings goal). |  |
|  | 2- System displays an error message and asks for a valid input. |
|  |  |
|  |  |

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* **User Story #10**

|  |  |
| --- | --- |
| **User Story ID** | US #10 |
| **User Story Name** | request assistance in managing saving resources |
| **Actors** | User/investor |
| **Description** | **As** an investor  **I’d like** to request assistance in managing saving resources  **So** I can enhance my investment and budgeting skills and achieve my financial goals effectively |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given**  I am a signed-in (registered) user and I am on the control panel **When**  I request assistance by submitting my financial details and preferences, **Then**  the system should either provide automated saving strategies or connect me with a financial advisor for personalized guidance. |

* **scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- user clicks to request assistance in managing saving resources 2- User selects "Request Assistance" and enters financial details (income, expenses, savings goal, etc.). |  |
|  | 3- System processes the request and provides automated recommendations OR assigns a financial advisor.  4- System confirms the assistance request and updates the user’s dashboard. |
|  |  |

**Exceptional Scenario**   
 No exceptional scenario for this case.  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **User Story #11**

|  |  |
| --- | --- |
| **User Story ID** | US #11 |
| **User Story Name** | tutorial for investment |
| **Actors** | User/investor & System (Investment Learning Module) |
| **Description** | **As** an investor  **I’d like** to access a tutorial for investment  **So** I can learn how to make informed investment decisions and manage my financial resources effectively |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given**  I am a signed-in (registered) user and I am on the control panel **When**  access the investment tutorial section **Then**  the system should provide structured learning materials, videos, and quizzes to guide me through the investment process. |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- User navigates to the investment tutorial section. |  |
|  | 2- System loads available tutorials and learning resources. |
| 3- User selects a tutorial to begin. |  |
|  | 4- System starts the tutorial with interactive lessons, videos, and explanations. |
| 5- User progresses through the tutorial. |  |
|  | 6- System tracks progress and allows resumption from the last completed section |
|  |  |
|  |  |

**Exceptional Scenario**   
 No exceptional scenario for this case.  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **User Story #12**

|  |  |
| --- | --- |
| **User Story ID** | US #12 |
| **User Story Name** | Answer a question |
| **Actors** | User/investor & expert investor |
| **Description** | **As** an expert investor  **I’d like** to answer a question sent to me  **So** I can share experiences and connect with people |
| **Per condition** |  |
| **Post condition** |  |
| **Acceptance Criteria** | **Given**  I am a signed-in (registered) user and I am on the control panel **When**  I click on a question sent to me to answer it **Then**  the system successfully sends my answer |

* **Scenarios**

**Normal Scenario**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| 1- expert investor clicks to answer a question |  |
|  | 2- system enables writing |
| 3- expert types answer then clicks submit |  |
|  | 4- system sends answer |

**Exceptional Scenario**

No exceptional scenario for this case.  
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# The Tool used in this:

* Draw.io
* Miro
* WireFrame

# Ownership Report

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| --- | --- |
| **Student** | **Items he created** |
| Aly EL-Deen Yasser | Use Case diagram, use case scenario 1,2 and 3 and non-functional requirement |
| Nagham Wael | Software Purpose, Software Definitions, Software Scope, use case scenario 4,5,6,7 |
| Fatema El-Fiky Ahmed | Use Case Diagram, use case scenario 8,9,10,11 and 12, Functional Requirment. |