



# FINLOGIK PFE BOOK

# 2025

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CANACCORD GENUITY GROUP INC.

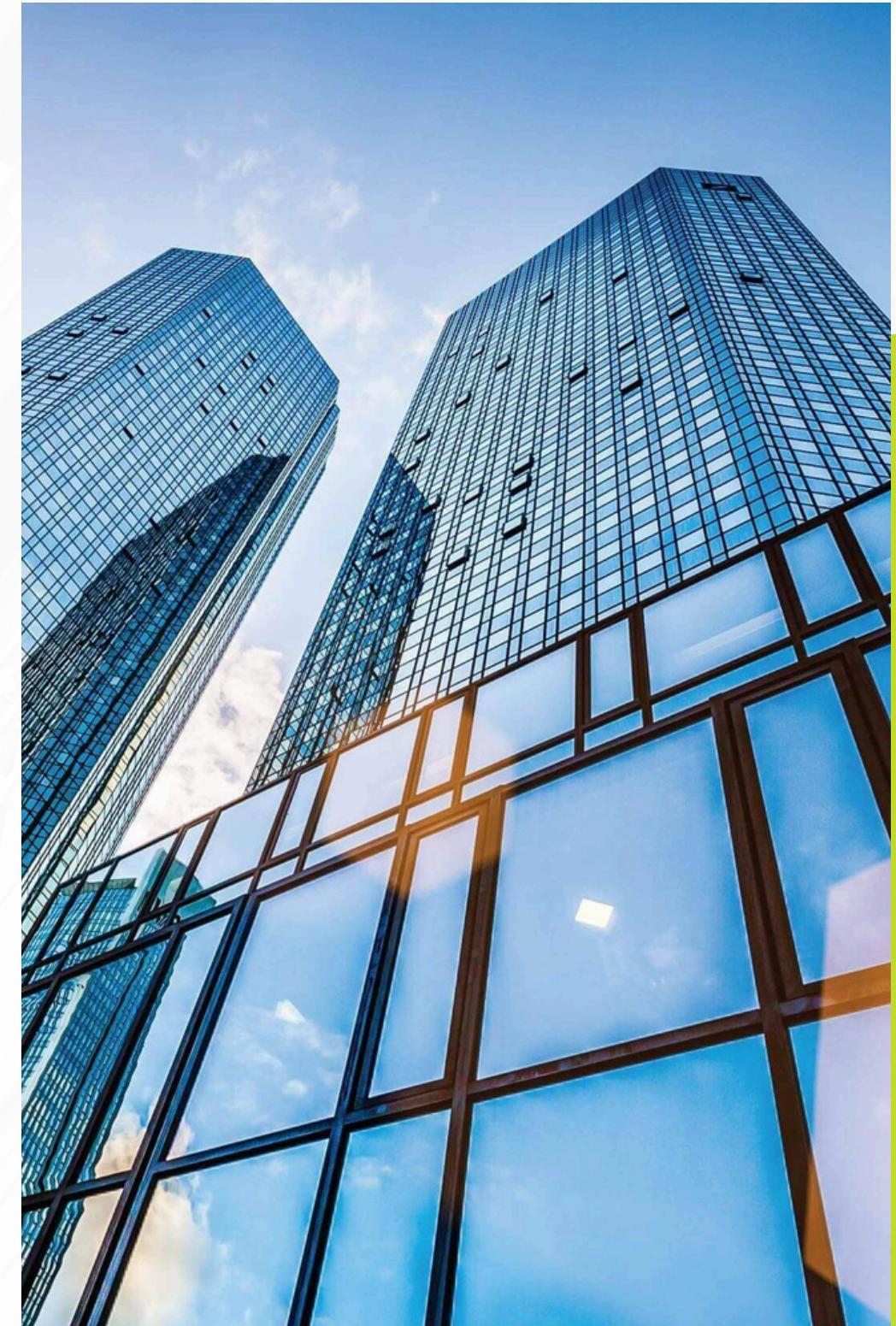
## ABOUT FINLOGIK

At **Finlogik**, we develop a passion for financial innovation.

**Finlogik** has been providing value-added **fintech** solutions to the Canadian market for over 20 years.

The company designs and manages cloud-based investment solutions, in addition to analytical dashboards that provide tools for benchmarking, reporting and large-scale data processing to help investors assess portfolio risk, their exposure and performance in a wide range of financial instruments.

**Finlogik** is a member of **Canaccord Genuity Group Inc.**





# ABOUT CANACCORD GENUITY

**Canaccord Genuity Group Inc.** is a leading independent, full-service financial services firm, with operations in two principal segments of the securities industry: wealth management and capital markets.

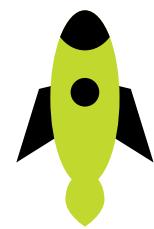
Since its establishment in 1950, the Company has been driven by an unwavering commitment to building lasting client relationships. We achieve this by generating value for our individual, institutional and corporate clients through comprehensive investment solutions, brokerage services and investment banking services.

The Company has Wealth Management offices located in Canada, the UK, Guernsey, Jersey, the Isle of Man and Australia. The Company's international capital markets division operates in North America, UK & Europe, Asia, Australia and the Middle East.



## Vision

We aim to be the company where people feel empowered to satisfy their client's expectations with the help of all their partners.



## Mission

Fully utilize our knowledge, expertise and experience to offer innovative tools to meet the needs of our clients.



## Values

Excellency  
Expertise  
Humanism  
Dynamism

# TOPICS

# DEVELOPMENT

#01



4 MONTHS

## RETIREMENT PLANNING AND SIMULATION APPLICATION

This project involves creating a web app to help users plan their retirement, simulate financial scenarios.

It includes features like budget recommendations, a personalized dashboard, and integration with banking services for automatic transaction updates.

### ANGULAR, .NET CORE, SQL



#02



1



4 MONTHS

## SMART RESUME

It is an analysis tool designed to streamline the recruitment process.

It takes a job description and a pool of candidates resumes, compares them, and ranks the candidates who are the best fit for the position.

The tool also offers customizable filters to adjust the selection criteria.

**.NET, ANGULAR, PYTHON, NLTK**



#03



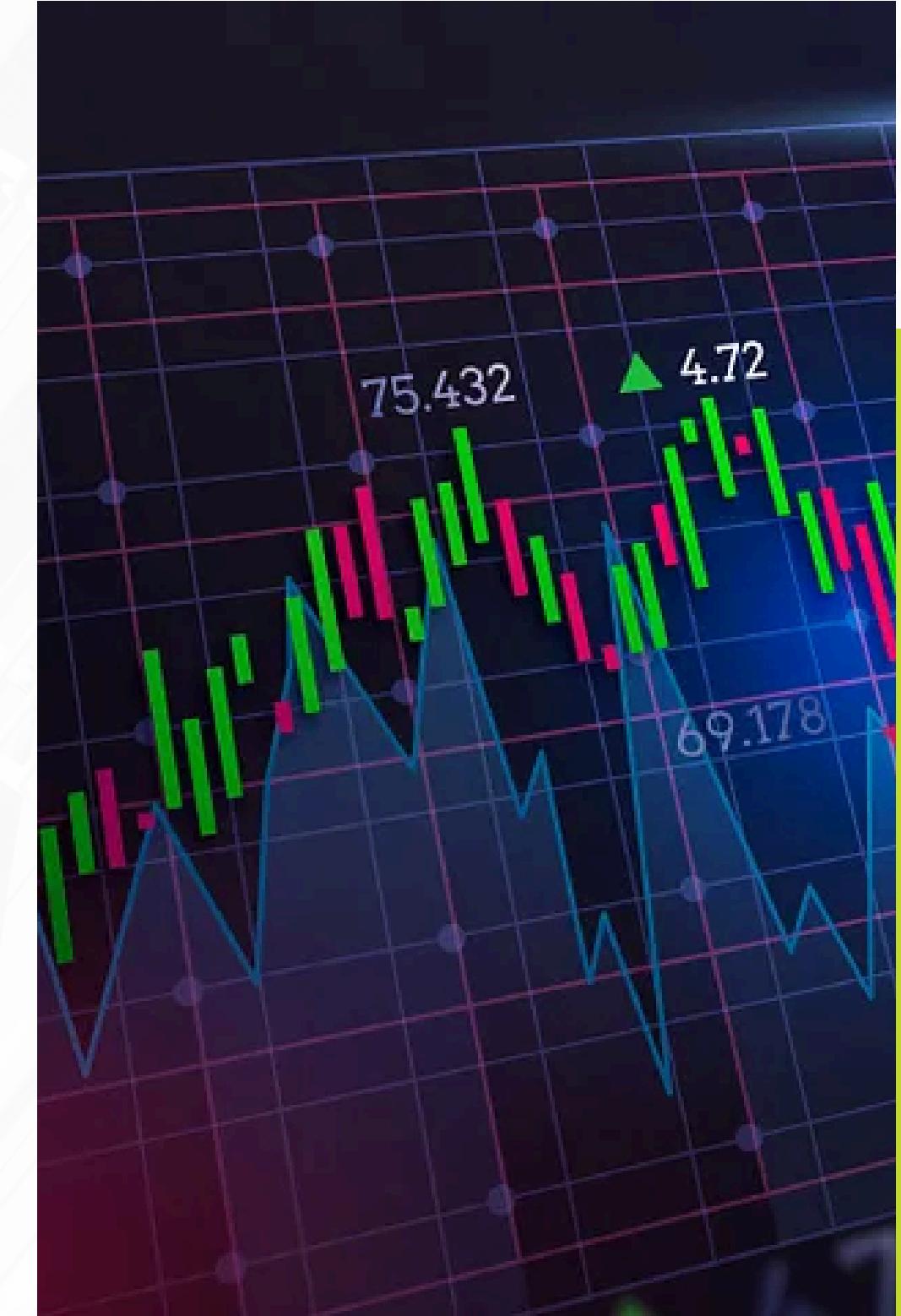
6 MONTHS

## FINANCIAL MARKET SIMULATION PLATFORM

This project focuses on creating a platform that helps students learn about financial markets.

Using AI, it provides investment recommendations, simulates transactions, and allows users to manage virtual portfolios, offering an interactive and educational experience in finance and trading.

**SPRINGBOOT / ANGULAR 13, MODULE ML FLASK, BD  
POSTGRES, POWER BI**



#04

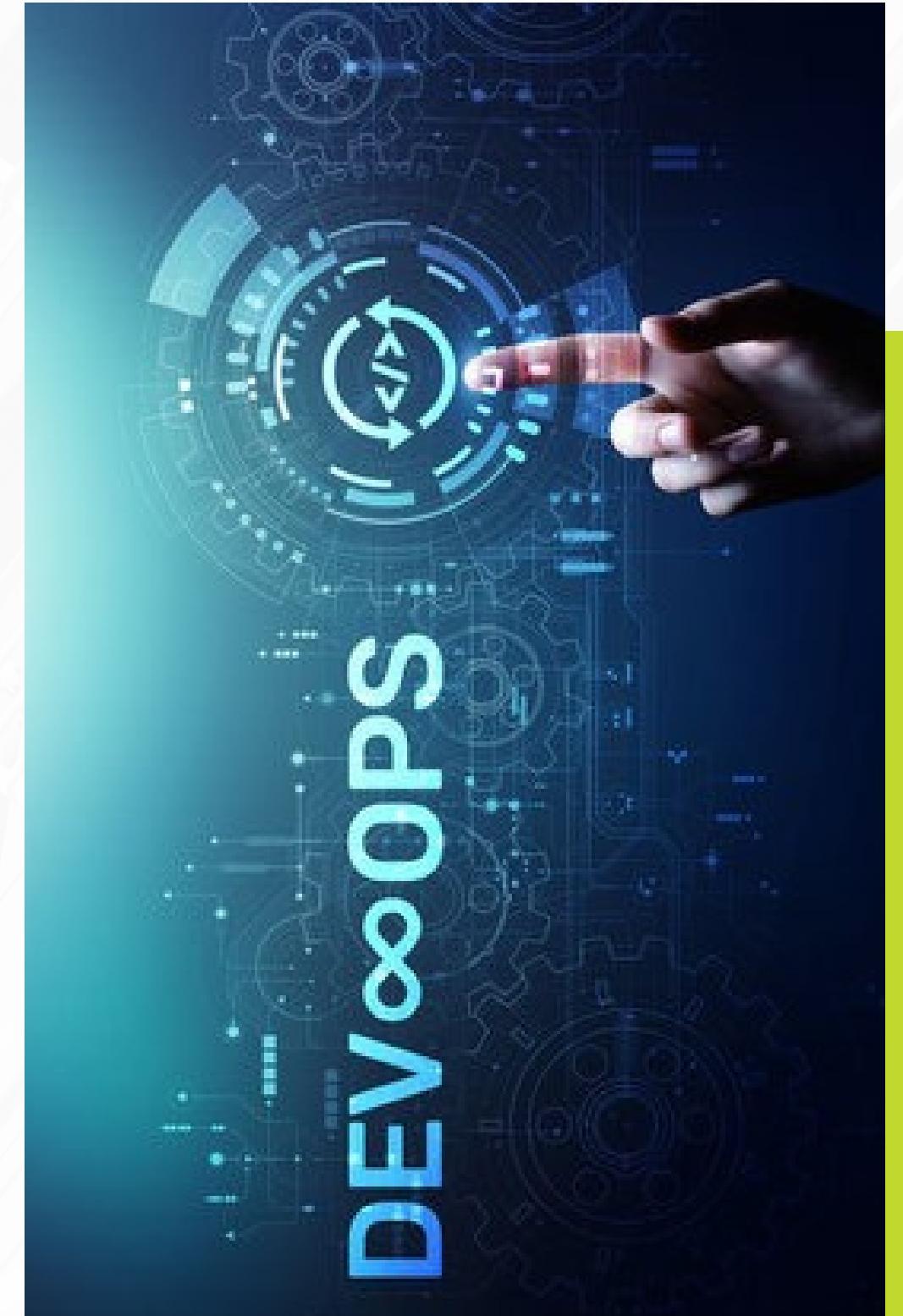


4 MONTHS

## INTELLIGENT PERSONAL EXPENSE TRACKING APPLICATION

This project focuses on developing then deploying an application that helps users manage their personal finances by tracking daily expenses, visualizing spending habits, and providing personalized recommendations based on spending data.

**ANGULAR , .NET , SQL SERVER , PYTHON, MICROSOFT AZURE DEVOPS**



#05



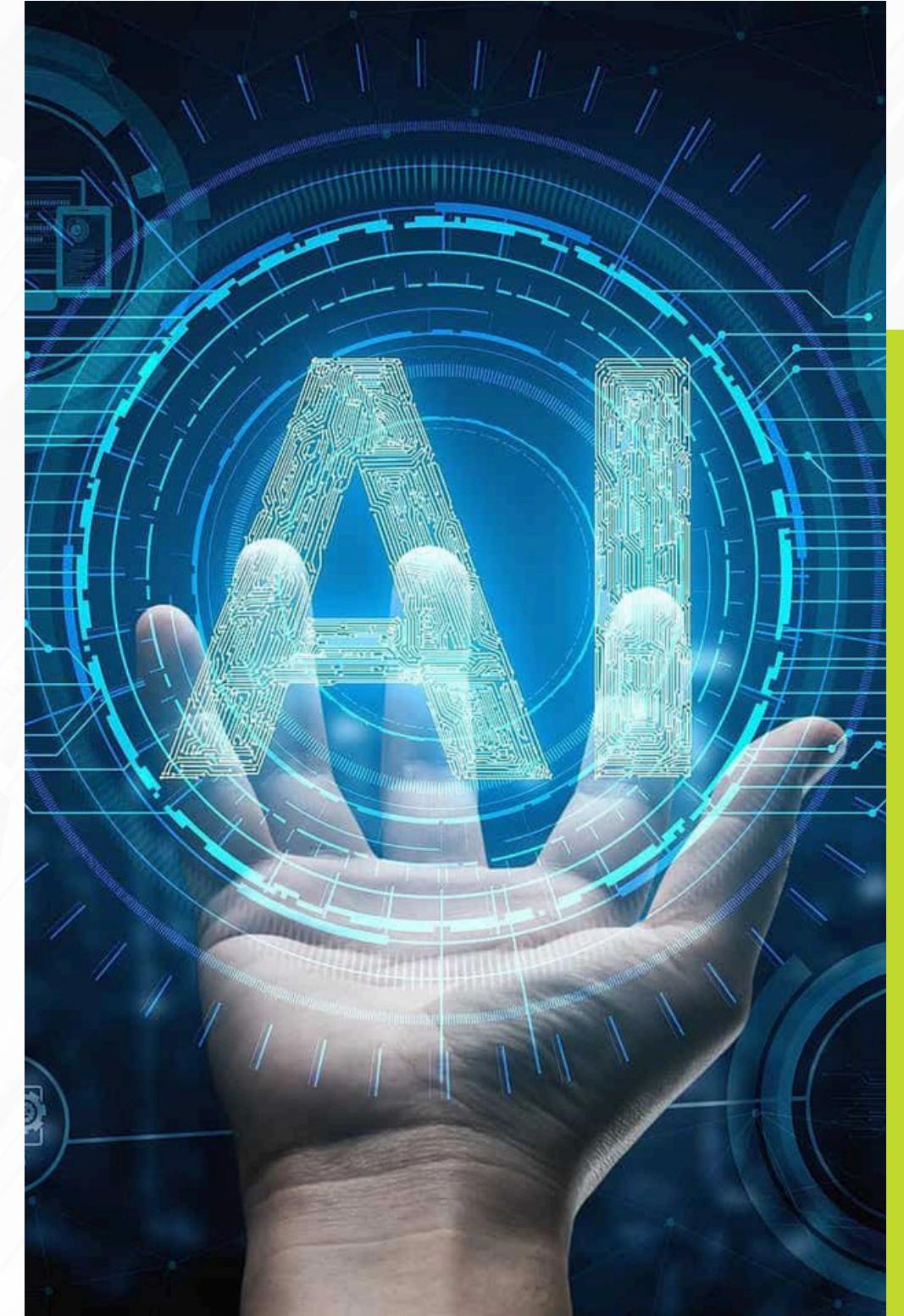
4 MONTHS

## EMPLOYEE WELL-BEING MONITORING APPLICATION

This project focuses on developing an application to monitor employee well-being by analyzing factors such as sentiment, fatigue indicators, and physical discomfort, particularly related to prolonged screen exposure and high cognitive demands.

The tool aims to promote healthy habits and foster a more balanced work environment.

**.NET, ANGULAR, TENSORFLOW/KERAS  
COMPUTER VISION**



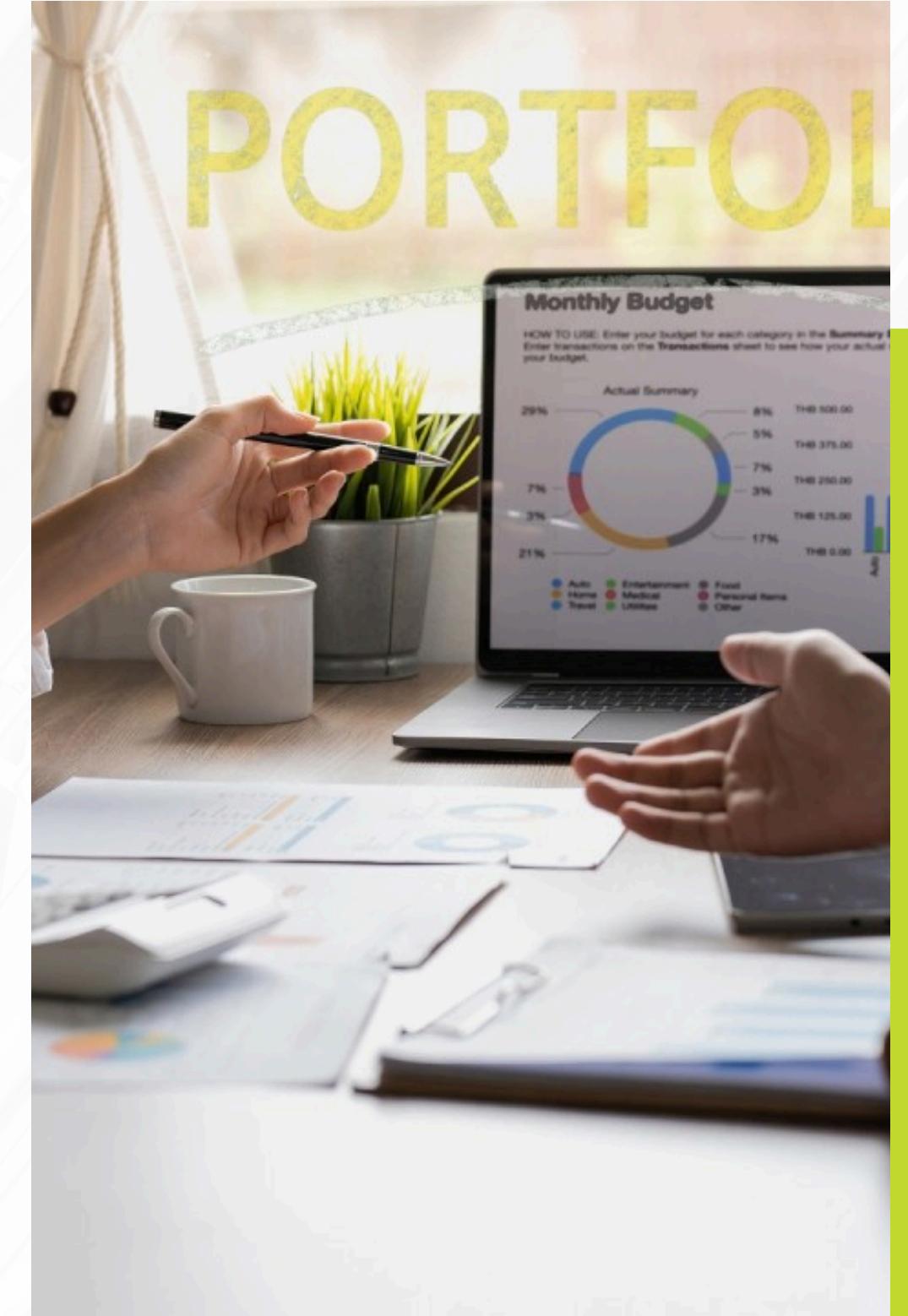
#06



4-6 MONTHS

## DYNAMIC PORTFOLIO MANAGEMENT IN VOLATILE MARKETS

This project involves using machine learning to develop a predictive model for optimizing portfolio composition and dynamically adjusting asset allocations based on market conditions, with a focus on real-time testing through an algorithmic trading system by analyzing time series data and forecasting volatility and risks.

**JAVA, ANGULAR, AI, DEEP LEARNING**

#07



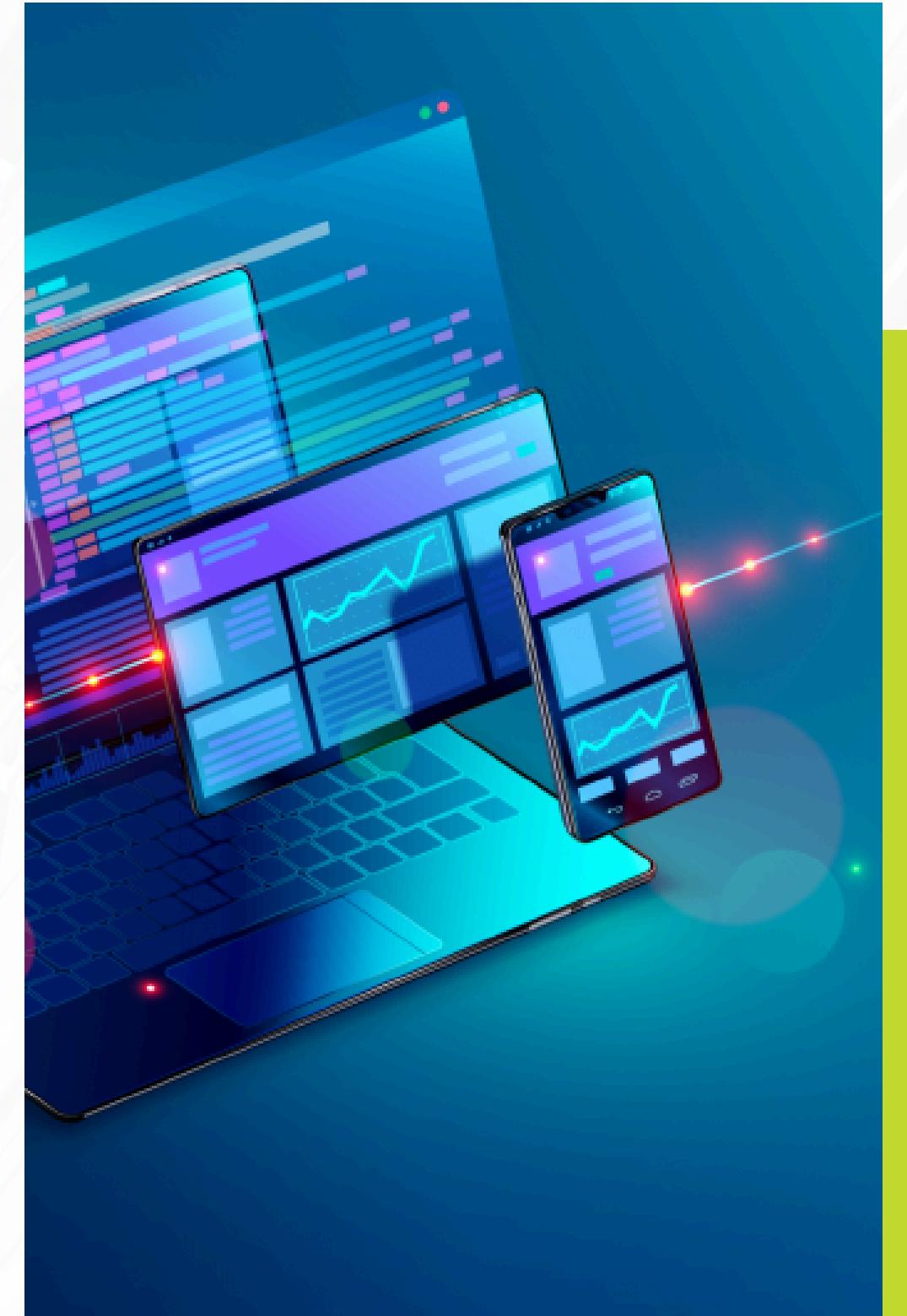
4 MONTHS

## AUTOMATED DOCUMENTATION GENERATOR

Generates code documentation based on code source, comments, and company best practices. AI could be used to generate more understandable and consistent descriptions.

The goal is to accelerate the creation of documentation and improve the readability and maintainability of the code for the development team.

**.NET, ANGULAR, NLP**



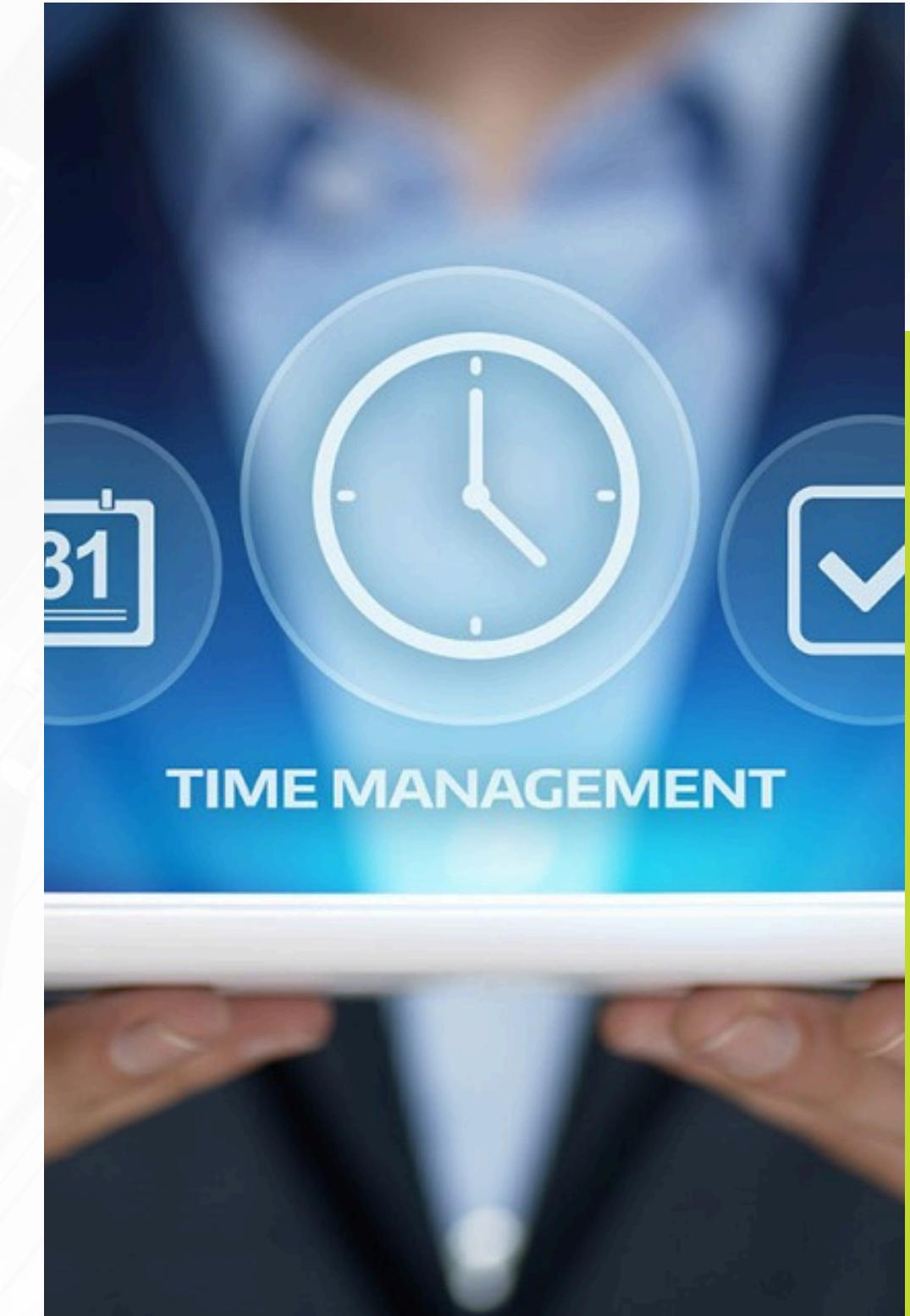
#08



4 MONTHS

## CREATION OF A TIME MANAGEMENT PLATFORM

Development of a time management platform integrating proven methods such as the Pomodoro technique and the Eisenhower matrix to optimize productivity and prioritize tasks effectively, in order to provide reports and performance statistics for employees.

**ANGULAR, .NET, POWER BI**

# QUALITY ASSURANCE

#01

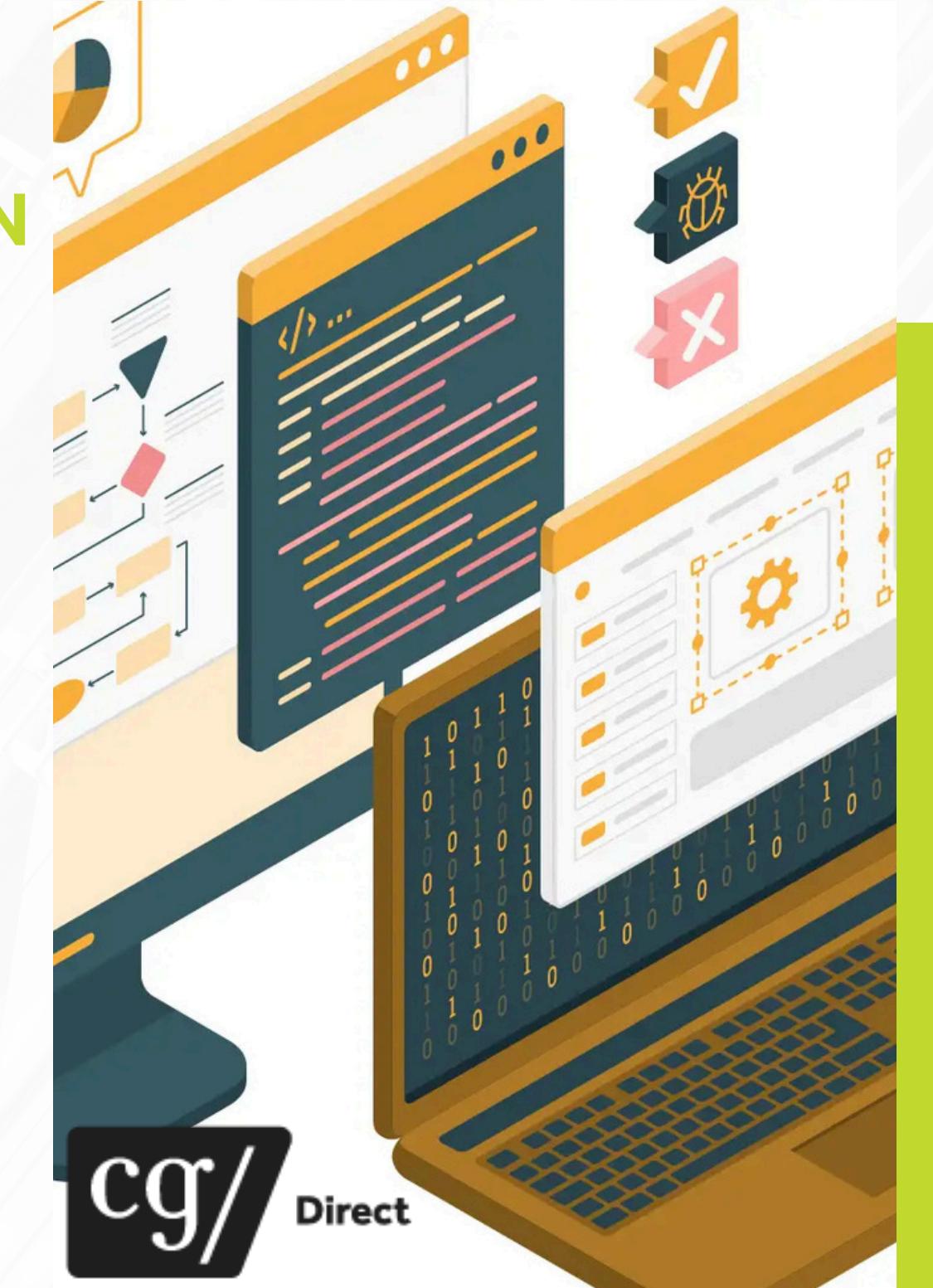


## AUTOMATING TEST CASE CREATION AND EXECUTION FOR AN EXISTING PLATFORM

This project aims to develop a tool based on Selenium to automate the process of creating and executing test scenarios for CG Direct application.

The tool will enable the efficient generation, organization, and execution of tests, thereby reducing the time and effort required for testing.

**SQL, SELENUIM , ANGULAR, JAVA**



#02



## AUTOMATED TEST CASE GENERATION AND EXECUTION PLATFORM

A platform for automatically generating and executing test cases. Users input a feature with acceptance criteria (text, video or image) and the system generates and analyzes test cases, along with automated test code. Users can then run these tests by providing values, with the system reporting the status of each test case.

**PYTHON / .NET, SELENIUM, ANGULAR / REACT  
TENSORFLOW / PYTORCH, NLP**





# IT SUPPORT

#1



4-6 MONTHS

## SECURE CODING ASSISTANCE PLATFORM

This project involves building a platform where developers can access secure coding best practices, ask questions and use an online tool to detect common code vulnerabilities.

**SPRING BOOT, ANGULAR, SQL SERVER,  
SONARQUBE/BANDIT, CYBERSECURITY, PENTEST**



# APPLICATION PROCESS IN 3 STEPS



## 1 - Book Review

Please read the proposed topics carefully.

## 2 - Topic Selection

Choose **2** topics that interest you the most.

## 3 - Application

Submit your application via the link below:

**FINSOTECH - STAGE PFE 2024 - 2025**



# OUR CONTACT

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# THANK YOU!