

HACKATHON

PRESENTED BY GOLDMAN SACHS

Presenting Partner

Cloud Technology Partner





Investing For Youths (IFY)

Ode To Code

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Today's youths require personalized solutions in order to make smart decisions regarding their personal finances





Issue

Information overload, **lack of financial literacy**, and an **absence of suitable platforms** have hindered youths in Singapore from effectively managing their personal finances

Key Question

How can we develop a platform that equips youths with personalized financial information according to their risk profile and goals which would empower them to make informed financial decisions for themselves

Solution Objectives

Our Solution – Investing For Youths (IFY)

Introduce a personalized platform for youths to learn more about personal finance

A comprehensive & personalized solution for youths based on their risk tolerance and goals

Ensure only the most relevant information is identified and presented



Telegram-bot questionnaire to ascertain user's risk profile and personal goals





Website to showcase user's hypothetical portfolio according to his/her individual profile



Able to view personalized news and estimated hypothetical returns based on user's portfolio

Have analysis of information retrieved to help youths make sense of it

Situation Solution Conclusion



Investing For Youth(IFY) offers youths a platform with a personalized hypothetical portfolio that enables them to learn about investments





Telegram Questionnaire



Hypothetical Portfolio



Learning & Analysis of Results



User starts by accessing our telegram bot and answers some questions about personal finance

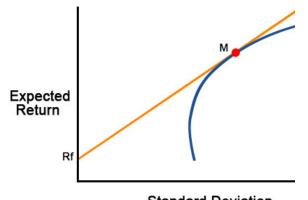




Risk Averse Risk Taker



Based on our algorithm, the user will be assigned a risk aversion coefficient between 1-5, with 1 being a risk taker and 5 being a risk averse individual



Standard Deviation

Next, the user accesses our website and enters his/her risk aversion coefficient



Using Harry Markowitz's Modern Portfolio **Theory**, and our "database" of 17 securities covering 4 beginner-friendly asset classes, we create a hypothetical portfolio for the user depending on his/her risk aversion coefficient



Lastly, the user will be presented with an overview of the portfolio and will be able to track its returns over time

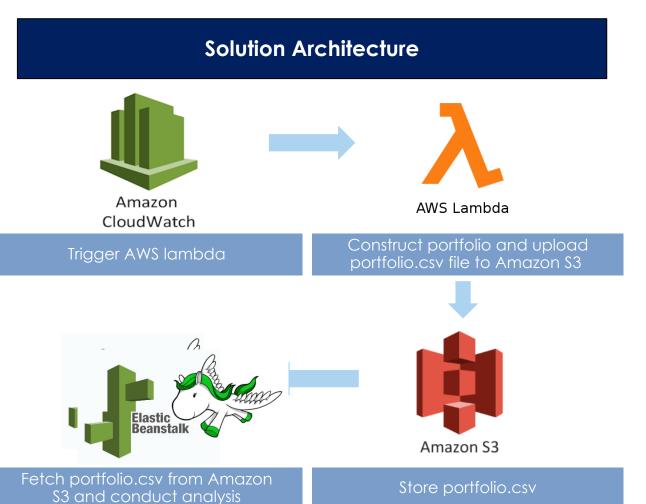


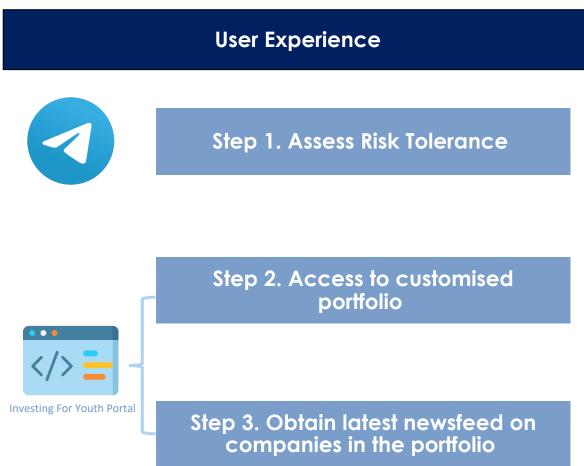
News of the individual securities and beginner friendly articles explaining asset classes in the portfolio will also be shown real-time on the website to emulate actual learning and portfolio monitoring



Technology/Frameworks used











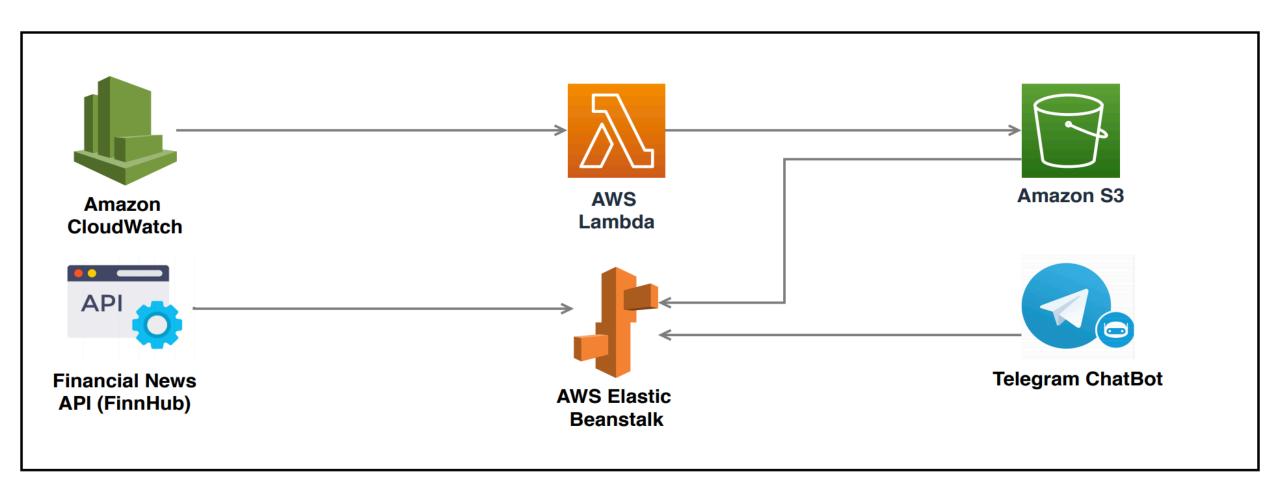
DEMO

Situation Solution Conclusion



Solution Architecture





Solution Endpoint: http://deploy.eba-tcb5tsyy.us-west-2.elasticbeanstalk.com/



Investing For Youths (IFY) will be an innovative, beginner friendly, and seamless way to get youths started on financial literacy and investing



Issues

Information Overload leading to decision paralysis

Youths lack financial literacy to manage personal finances

Absence of comprehensive beginner friendly platforms

Question

How can OdeToCode create a platform to empower youths to make sound financial decisions for themselves?

Solution

Telegram chatbot to ascertain user's risk profile

Generation of hypothetical portfolio

Monitoring of portfolio via real-time updates

Impact

After using our platform for a certain period of time, youths will be empowered and feel confident to make financial decisions for themselves. To scale, we can include links to regulated brokers in Singapore so youths can get into real investing after testing the waters via our platform and learning the basics