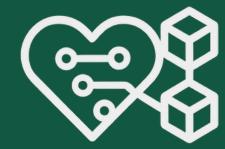


**UM HACKATHON 2025** 

# CHAINITY



**BY: TWO PLUS TWO** 

An Al-powered, blockchain-enabled, cloud hosted donation app system that ensures transparent, automated, and impactful fund distribution for Waqf institutions, Zakat authorities, and non-profits organisations.

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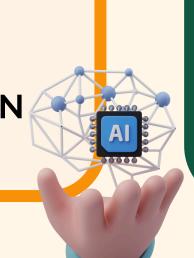
**System Architecture Diagram** 



### OUR SOLUTIONS

TRACKS DONATIONS
SECURELY AND
TRANSPARENTLY
UTILIZING BLOCKCHAIN

USES GEN AI
FOR SMART
FUND ALLOCATION



PROVIDES

MOBILE-FIRST ACCESS

TO ALL USERS



SUPPORTS WAQF, ZAKAT, AND SADAQAH MODULES

GIVES DONORS
REAL-TIME
IMPACT VISIBILITY

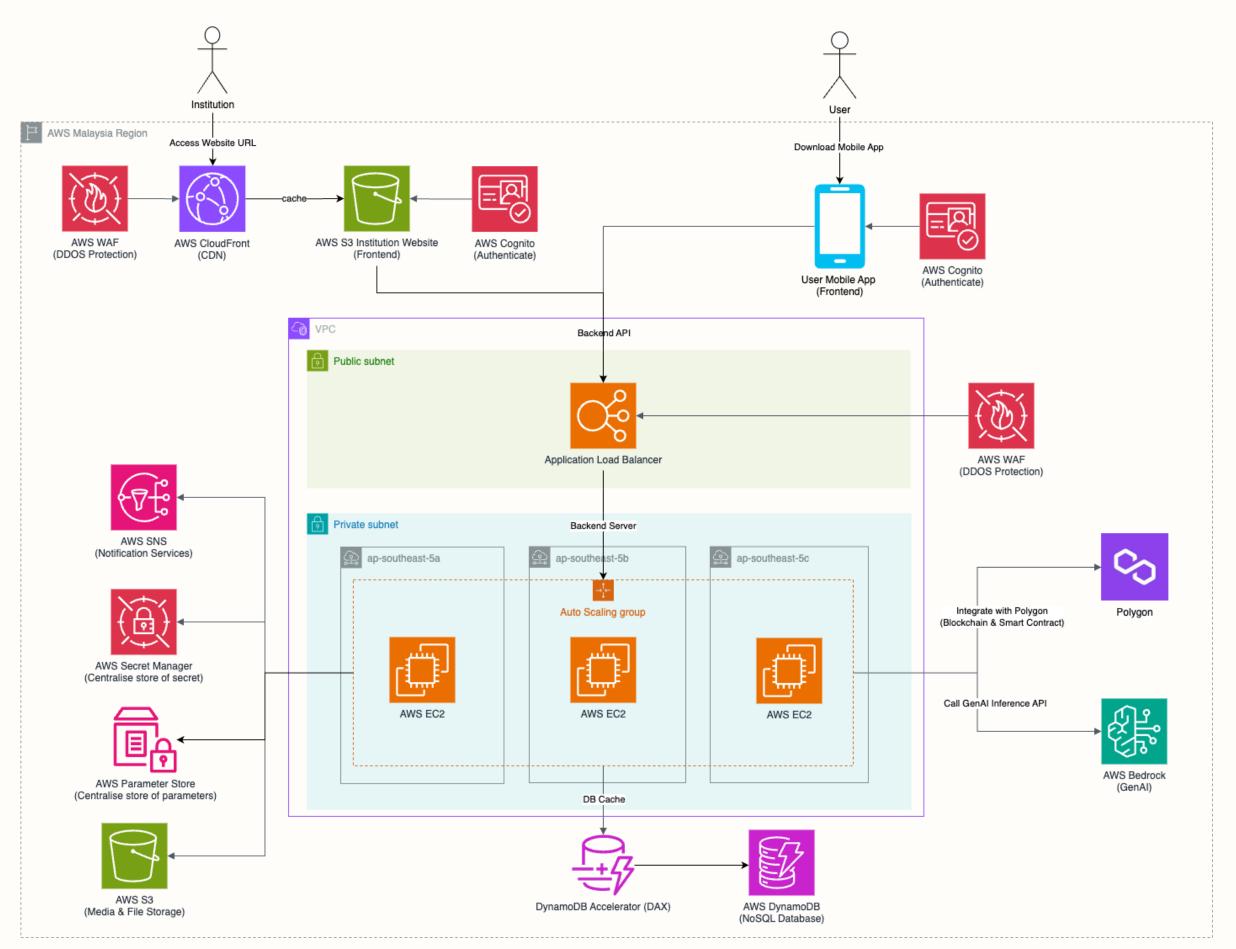


# TECH HIGHLIGHTS—

No.	Technology Used	Description
1	Blockchain	Polygon for transparency
2	Gen Al	Auto smart fund allocation & fraud detection
3	Mobile & Web Engineering	High accessibility to users
4	Cloud Native on AWS	High scalability, low latency, and high availability
5	KYC & Security	Verified user profiles and secure transactions
6	Modular API Design	Easily integratable with other institutions (Waqf, Zakat authorities, NGOs) using RESTful APIs.



#### SYSTEM ARCHITECTURE DIAGRAM



### GEN AI INTEGRATION -

#### Al Powered Urgency Assessment & Fund Allocation

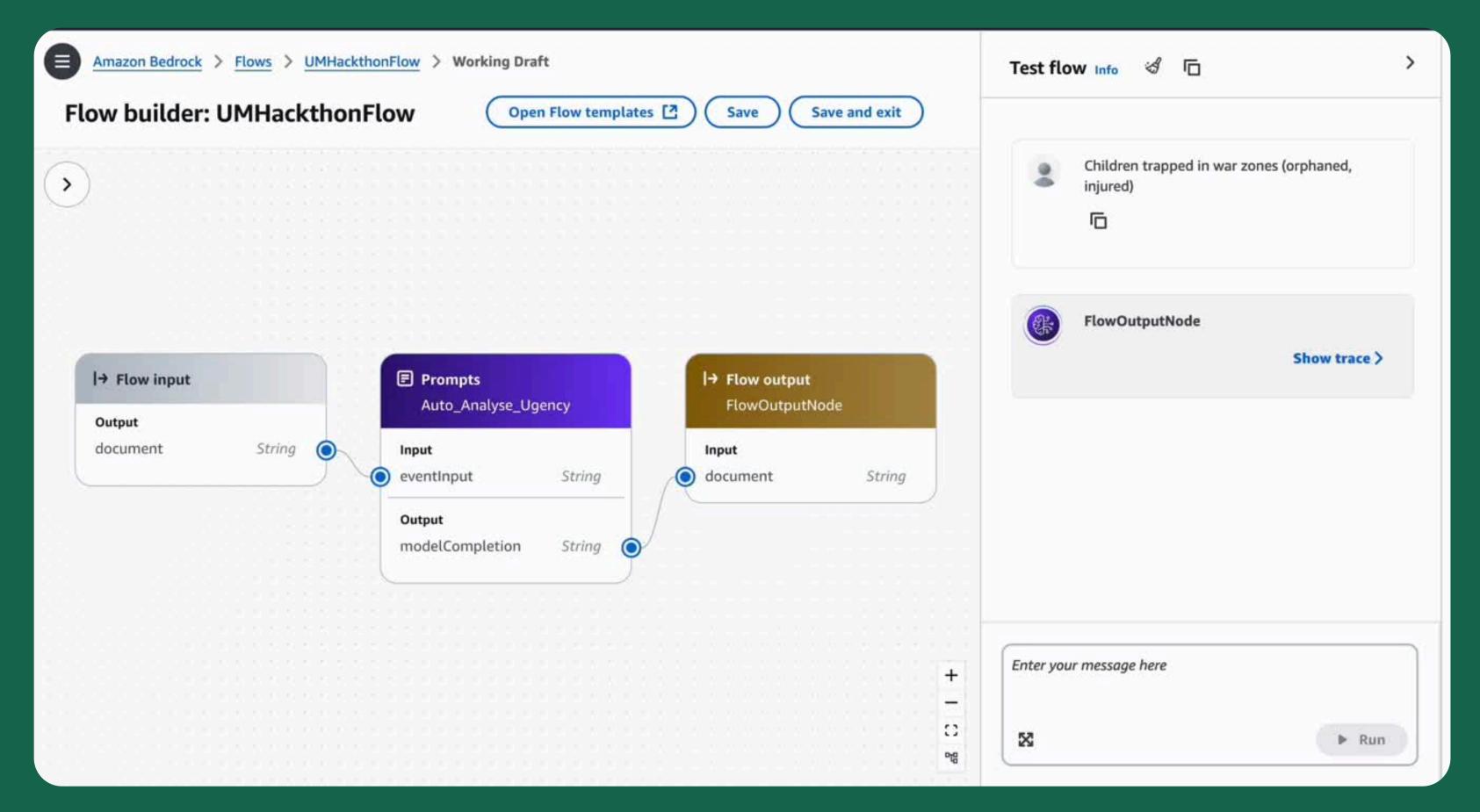
Powered by AWS Bedrock Foundational Model (DeepSeek R1, Claude 3.7 Sonnet)

Analyse crisis events to determine:

- Urgency Percentage
- Urgency Categories
- Fund Allocation Time

Our backend server will sent API to invoke the LLM to make the decision real time and accept the response in a JSON Structured Format that we can later store in our data layer





### BLOCKCHAIN

No.	Technology Used	Description
1	Polygon (Mumbai Testnet)	Layer 2 Blockchain for scalability
2	Solidity	Programming Language for Smart Contract
3	Hardhat	Smart Contract Framework & Environment
4	Ethers.js and Web3.py	Interact with Smart Contract for JavaScript
5	Metamask	Wallet to sign and send transactions

# THANK YOU

