

UM Hackathon 2025

**DOMAIN 1: ENHANCING CHARITY AND DONATIONS
THROUGH FINTECH & TECHNOLOGY**

DONAPP

BY: ABITRY

MEET OUR TEAM MEMBER



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LEE XIN YEE



OOI WEI YUAN



TENG YONG YING



YAP ZHAN HONG



YEOH XIN HUI

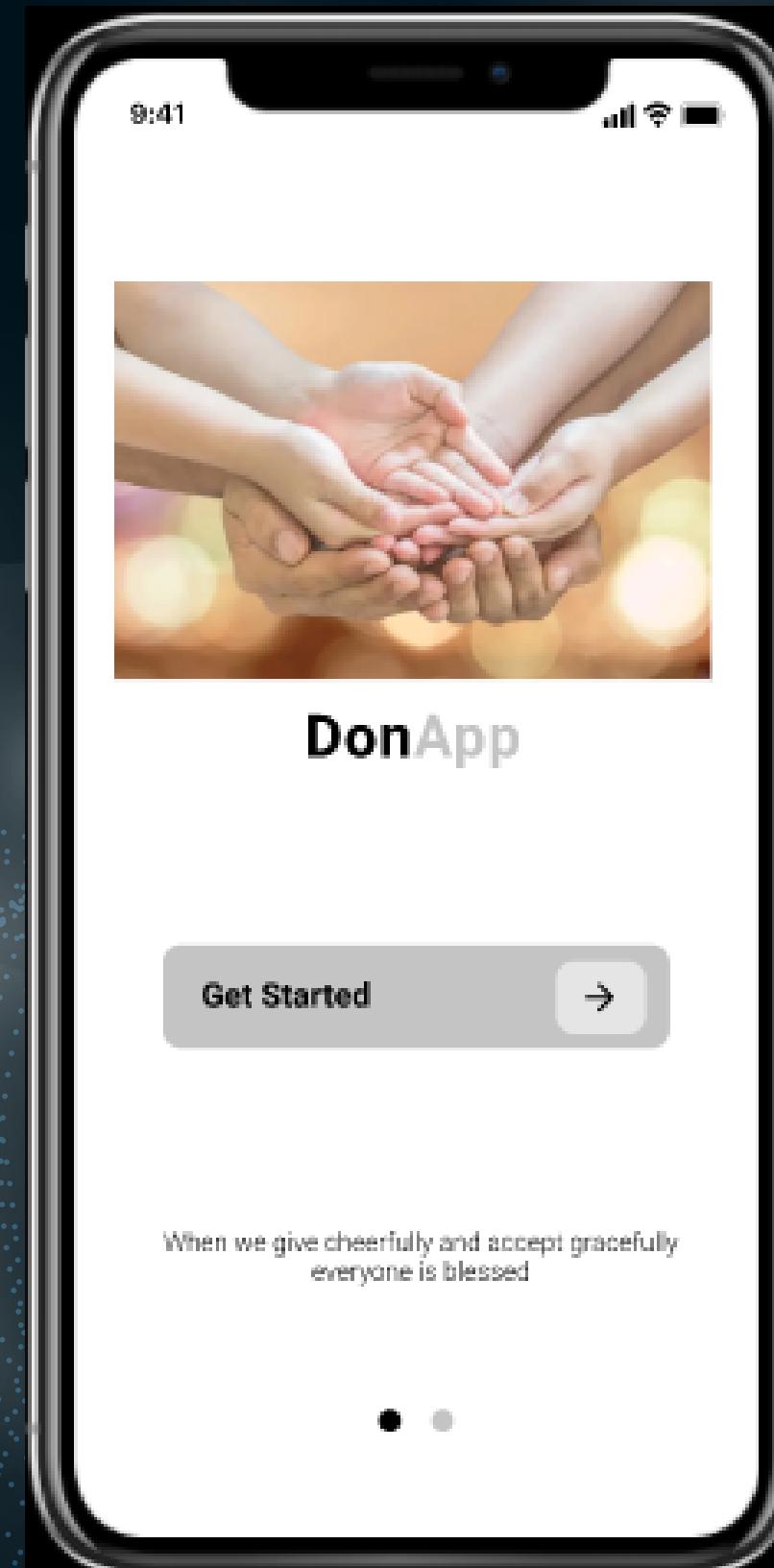
THE PROBLEM

- Despite advancements in fintech, the management of Sadaqah faces challenges like inefficiency, lack of transparency, and limited accessibility. Many institutions still use outdated systems, hindering real-time tracking, smart fund allocation, and donor engagement.

CHARITY & DONATION



WE PRESENT OUR SOLUTION



This screenshot shows a fundraising event page titled "My First FR". The top section displays a video thumbnail of a group of people in pink shirts gathered around a large cardboard box. Below the video, the title "My First FR" is shown, along with a progress bar indicating "RM 1024 raised" and "54%". A message states "The event is currently accepting donations." The bottom navigation bar includes tabs for "Info", "Donation", and "Milestone", along with links to "by John Doe", "Community", "Kelantan", and "10 days left".



The Solution

DONAPP

User Signin/signup

- Seamless and secure login using Gmail and social media platforms
- Firebase manages authentication via provider servers and issues access tokens
- No sensitive data is stored locally
- Technology: Firebase Authentication (OAuth 2.0)

PAYMENT GATEWAY INTEGRATION

- Supports diverse payment preferences for donors
- Enhances accessibility with multiple payment options
- Stripe: Tokenizes Visa card data, ensuring PCI compliance
- Duitnow: QR code-based payments for Touch'n Go Wallet
- Technology: Stripe(Visa) and Duitnow (Touch'n Go)

AI Application for IC Card Validation

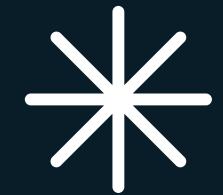
Employs AI-driven OCR system built with TensorFlow

How :

- 1. Upload IC Card pictures to the app.**
- 2. Train OCR model for personal information extraction from IC.**
- 3. Data is validated against a database to ensure legitimacy.**

**Role in
DonApp**

- 1. Ensures trust and legitimacy for recipients**
- 2. Figma prototype includes a “Verify IC Card” button.**



AI For Face Verification

- **Strengthens security with face recognition.**
- **Compares live camera images with reference photos using facial features**
- **Identity is confirmed if the similarity exceeds a threshold**
- **Technology:OpenCV and Dlib**

Nearby Donation Programs Algorithm

- Displays nearby donation programs based on user location
- Google Maps retrieves the user's location
- K-Means groups nearby programs by proximity
- Programs are ranked by urgency or user preferences
- Technology: Google Maps API and K-Means Clustering

OUR HOPE FOR FUTURE

DONAPP ASPIRES TO REDEFINE THE LANDSCAPE OF CHARITABLE GIVING BY DELIVERING A USER-CENTRIC PLATFORM THAT INTEGRATES TRANSPARENCY, EFFICIENCY, AND CULTURAL RELEVANCE, FOSTERING TRUST AND ENCOURAGING SUSTAINED DONOR ENGAGEMENT.

Presentation by Abitry

THANK YOU

