# Microsoft US Azure Al: Hack for Humanitarian Action

WOMEN AND CHILDREN SAFETY PROTECTION APP



**KAVYA MANDLEM** 

**POWERED BY** 





# Major Problems

- O1 Being stalked on roads and empty places
- oz Unsafe Environment
- O3 Domestic Violence

- O4 Health care problem
- 05 Women Trafficking





### Solution Outcome

#### Twilight Women Safety App

keeps your loved ones safe by triggering an alarm to the relevant government women safety team with geo location. Women safety team able to track the geo location using azure maps and quick response has been taken.

#### Use Cases

- The woman's safety device with GPS tracker can be used while walking through the dark street at night.
- This project is also useful in case of an accident.
- Can be used to get rid of robbers.

#### Twilight Health Care Bot

Chatbot can interact with the users, giving them a realistic experience of chatting with a Medical Professional, can detect human message patterns using AIML. It retrieves keywords from the initial messages to know the possible medical problems that the user has, based on their input.

#### Use Cases

- Provide medical information
- Collect patient data
- Mental health assistance

# Why Azure?

Azure is a Internet-based computing means storing, accessing data, application accessed over the internet anywhere at anytime with high accuracy, cost saving, highly secured, ease scalable, built in AI/ML features.

Cost Savings	Easy Connectivity	Accessibility anywhere
Highly Secured	Low Data Risk	Easy Deployment
Compliance Standards	Less Maintenance	Increased Collaboration

## Service Details

Twilight women safety application built using Microsoft Azure modern LC/NC technology

Twilight Women Safety App

Twilight Health Care Bot

LINK <u>https://apps.powerapps.com/</u>

LINK → <a href="https://twilighthealthcare.azurewebsites.net">https://twilighthealthcare.azurewebsites.net</a>







→ PowerApps (GEO AUTO LOCATION)

PowerApps (GEO AUTO LOCATION)



Azure Health Bot (twilighthealthbot)



App Service (twilighthealthcare)

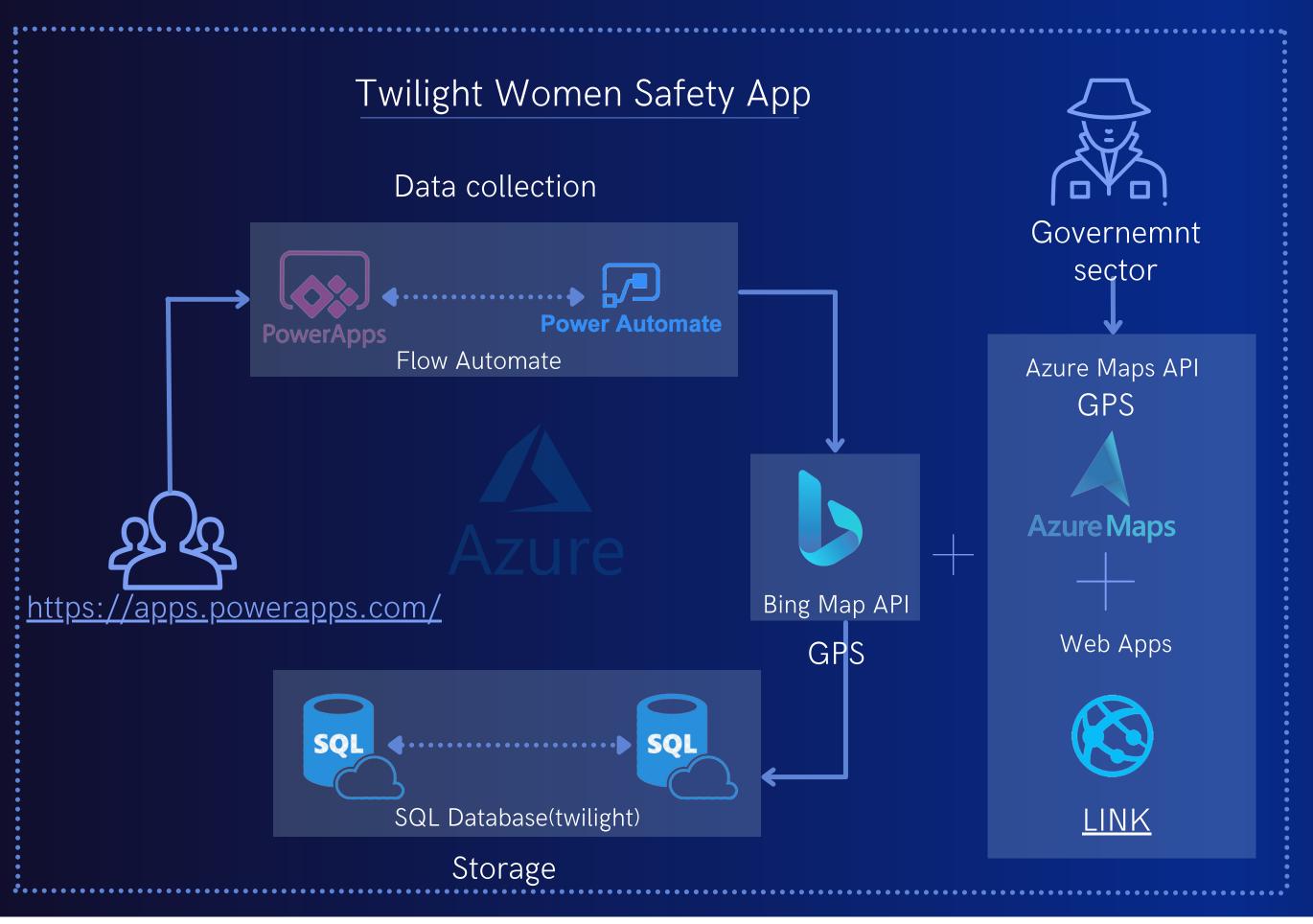
LOGIN USING

USER NAME •••• odl\_user\_539179@cloudevents.ai

PASSWORD ····>

PUBLIC ACCESS

## Architecture





# Service features

Twilight Women Safety App



Power Apps is a suite of apps, services, and connectors, as well as a data platform, that provides a rapid development environment to build custom apps for your business needs.



#### Power Automate

Power Automate Flow creation of automated workflows between apps and services to synchronize files, get notifications, and collect data.

Flow

Automate

GPS





Storage

Industry-leading SQL Server engine with limitless scalability and intelligent performance and security

Azure SQL Database is an intelligent, scalable, relational database service built for the cloud



Map automatically discovers application components on Windows and Linux systems and maps communication between services



#### Bing Map API

Immersive map-based apps is easy with an extensive support system for developers with premium features



#### Azure web apps

Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile back ends. You can develop in your favorite language, be it .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python

Site

### How it Works

#### Twilight Women Safety App

https://apps.powerapps.com/

LC/NC Power APP which Fetches location of people automatically by allowing to detect in setting.

Based on location and latitude people address /postal code has been fetched.

Location is shared by pressing the submit button.

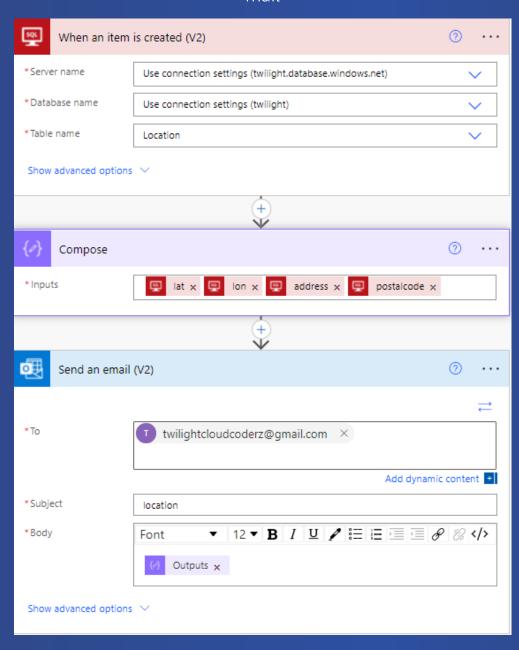
latitude
10.7836427
longitude
78.6909152
Address
post code
Submit

Bing Api enables to find location details location gets stored in sql databse table End result output responded to powerapps in Address and postal tab. ② … PowerApps ② ... Insert row (V2) Use connection settings (twilight.database.windows.net) Use connection settings (twilight) Getlocationbyp... × Getlocationbyp... × Address Forma... × address Address Postal ... × Address Forma... x Address Postal ... ×

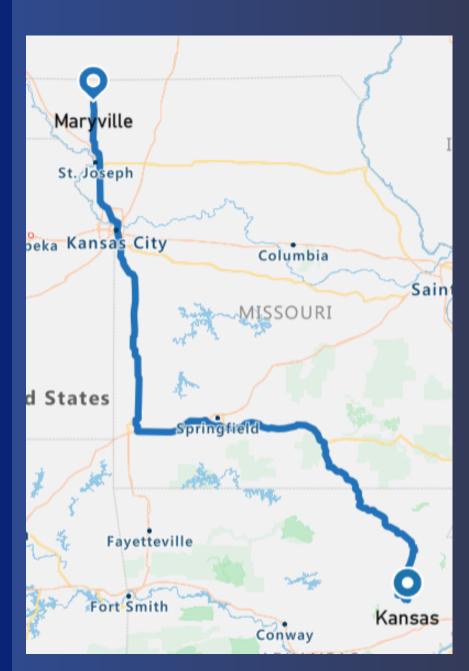
+ Add an output

Shared location data gets stored in Sql data bse and using flow.

when new item created in table flow runs to share the latitude/longitude to relevant government team via mail



Based on mail details location tracked and immediate action has been taken using azure maps hosted on web apps site



# Linda Story

Twilight Women Safety App

location

track

Bing Map API

Location

Action

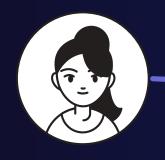
Track

Azure Maps



Linda saved from Trafficker

**WOMEN IN** TROUBLE



Linda

Trafficker tries to assualt Linda for money and other accessories

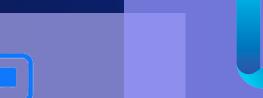
Twilight app feature

Twilight app helps to report

suspicious activity on time

allows citizens to report





Linda aware of twilight app as its mandatory instructed by government for to report suspicious activity to take action on time.she just open app and press submit.

using api connection in power flow , Linda location shared to relevant government team via mail, to take quick action entire process is carried out by a automatic flow in power automate.

Linda location stored in a Sql databse which handled privately by government team.

Data stored

SQL Database(twilight)

SQL

Using flow connector whenever people submit suspicious data gets stored in database and auto trigger flow share the location details to relevant government team on time via mail for quick action.

Using Azure maps Linda location has been found by government officials and took immediate action by reaching the destination on time.

**Awareness** 

with their location.

Flow

API

Data

GPS

# Features-Azure Health Bot

Twilight Health Care Bot

https://twilight.azurewebsites.net/

Azure Health bot service is a AI-powered cloud platform technology that empowers developers in all healthcare organizations to build and deploy in a ease way to help patients and cutomer in timely manner



Health care Intelligence



customizable and Extensible



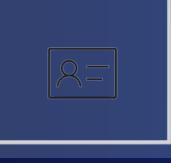
Secured,
Privacy, Compliance

#### Conversational Elements

Interacting with user input by sending prompt messages display statement and takes answer from user what its want to actually do, yes/no for confirmation from users to act and proceed further on issue, statement to display content.







#### flow control

Branch used for split decision, switch user to multiple cases, begin helps to run another scenario, replace with another scenario, end to stop scenario.











### Advanced Functionality

Data connection helps to connect other external APIs, Global variable set and get variable to use and maintain context, action to take control and modify bot, language understanding to translate the language via interaction with LUIS.











# RiyaStory

Twilight Health Care Bot



Riya wants to schedule an appointment for X-ray scan on knee in hospital XYZ

she reach official website in which Azure AI chat bot implemented for these services



Chat bot helps Riya to schedule appointment by suggesting options using switch case

Riya likes the AI chat bot features and continues to book appointment



Imaging department at xyz hospital confirmation message display for user to select the option to proceed further



various scanning
details listed in menu
with the help of switch
case feature

Riya selects X-ray option in which she required to knee alignment



Bot display the available time slots for x ray scan

Riya selects desired free timing for X-ray scan

Bot shares form with all user mandatory details



Riya fill the form with her details and submit

Bot saves Riya details and confirm backs her

Riya likes fast reponse of Bot and shared valuable feedback

AI-Intelligence

Secured

switch cases

ease deployment

customizable

### Demonstration

Git hub link

https://github.com/TWILIGHTCLOUDCODERZ/women-safety-app

Video Link

https://youtu.be/L9vqJcirV-Q

# Future RoadMap



Safety Drones

Aerial photography to visualize the area and location tracking

Market analysis and forecast weather conditions

Thermal sensor drones for search and rescue operations



Video Analyser

Customise video workflows to your specific needs via a pipeline description language that works from the edge to the cloud and for live and batch scenarios

Workplace safety-Business assets analyse workplace video to detect safety violations

Thanks for the opportunity to learn and explore new technology

Team - Twilight

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