



“ENHANCING TNB SUPPORT SERVICES USING POWERBOT”

TNB ICON Hackathon

14 Dec 2017 – 15 Dec 2017

By Enovade Sdn Bhd

Value Proposition

Deployed Chatbot solutions to existing customer

- Siti@1MOCC (launched on 6/12/2016).
- **SmartSelangor COOL**
- **Riadagang**

First to market. Bahasa Melayu NLP in collaboration with Universiti Malaya

- Krispi NLP

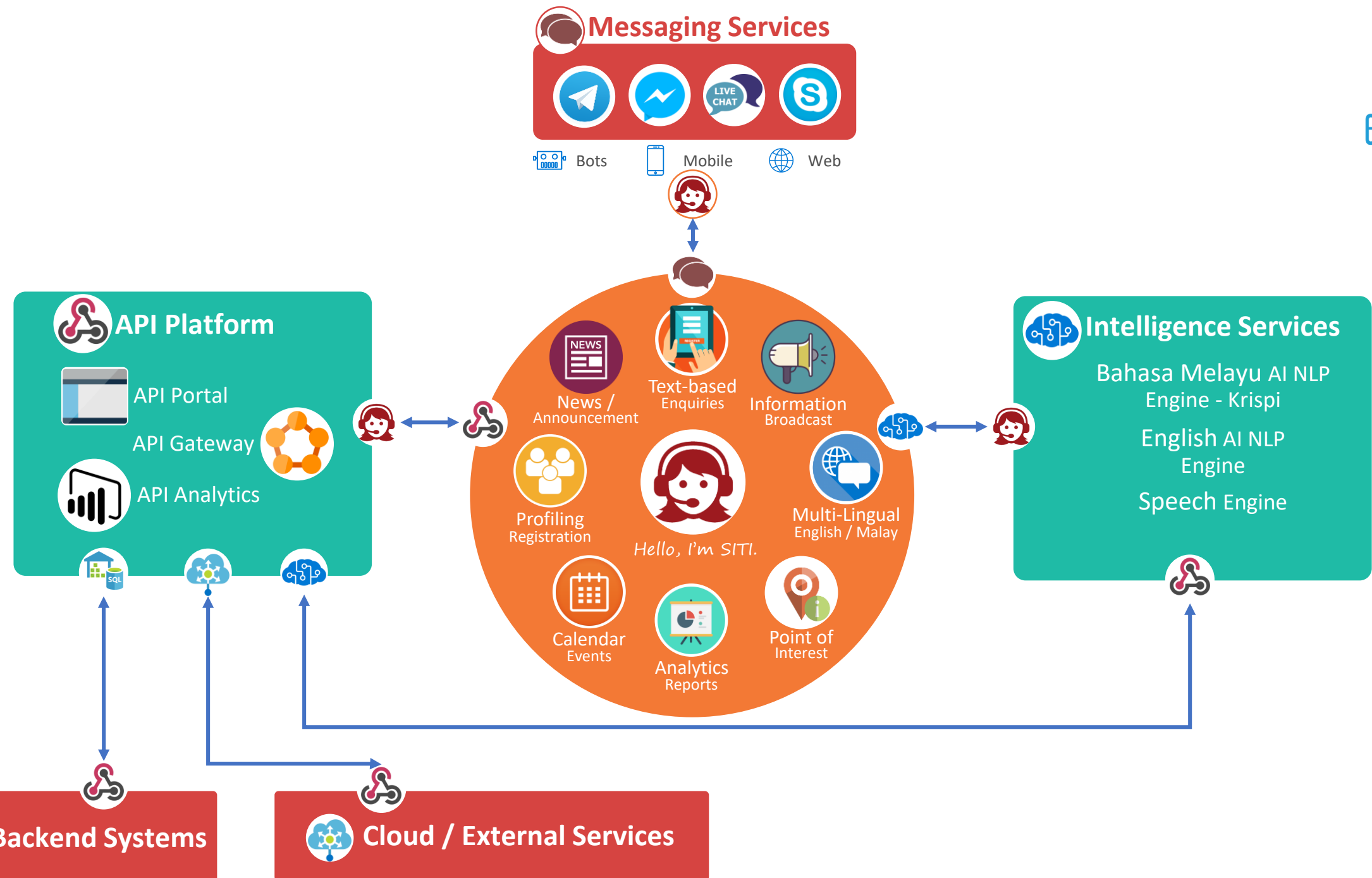
Experienced in developing integration solution for various platform e.g.

- Microsoft Dynamic CRM
- SugarCRM
- **Freshdesk**
- **Cloud APIs**

Gold Cloud Productivity competency with experienced deploying multiple cloud projects.

Dedicated support personnel for Siti. 100% local support.

Experienced in working with corporate and government agencies.



PowerBot Demo

Judging Criteria 1/3

	Functions	Descriptions	Remarks
10%	Infra flexibility	<ul style="list-style-type: none"> Hosting – On premise or on cloud. Requirement specification on infra side (server, storage) will be required if hosted on premise. 	<ul style="list-style-type: none"> Hosting – hybrid For on premise, 2 x Physical servers with the following config: <ul style="list-style-type: none"> 16 x Intel® Xeon® CPU @ 2.70GHz 128GB RAM 2 x 300GB HDD
15%	Local support availability	<ul style="list-style-type: none"> Availability of local technical support. 	<ul style="list-style-type: none"> Incorporated in Malaysia since 2004 100% local support
15%	Easiness of Integration and support	<ul style="list-style-type: none"> Able to integrate with enterprise-wide systems used by TNB. <ul style="list-style-type: none"> Eg: Oracle, SAP, PHP, .NET, Cisco, SOA Web Service/API Integration support on common platforms: <ul style="list-style-type: none"> Mobile Messaging (WhatsApp, Wechat, Telegram) Web Integration. Mobile Application 	<ul style="list-style-type: none"> Integration with enterprise-wide systems used by TNB using Web Service / API via API Management USC (Universal Service Connector) Integration with myTNB portal via AINI (Artificial Intelligence for Native Interface) Support WhatsApp, Wechat, Telegram, Webchat and Mobile Apps (via IFRAME)

Judging Criteria 2/3

	Functions	Descriptions	Remarks
25%	AI Ability	<ul style="list-style-type: none"> Understand common and complex, contextual sentences – not just searching through keywords 	<ul style="list-style-type: none"> Via UM Krispi NLP using graph-based partition distance measure algorithm
		<ul style="list-style-type: none"> Personalization – Interpreting language and ability to recognize and profile customer, and addressing customer by their personal preferences 	<ul style="list-style-type: none"> Via personalization module
		<ul style="list-style-type: none"> Voice recognition / conversational ability – recognize voice, and reply back via audio speech 	<ul style="list-style-type: none"> Via webchat – integration with Speech AI and UM Krispi NLP
		<ul style="list-style-type: none"> Document and image processing – ability to read and understand documents and images, OCR etc 	<ul style="list-style-type: none"> Via Image AI to process myKAD
		<ul style="list-style-type: none"> Other features – such as sentiment, emotion analysis and escalate to human agent if and when required. 	<ul style="list-style-type: none"> Via Text Analytics AI to detect sentiment and escalate to human agent for negative sentiment

Judging Criteria 3/3

	Functions	Descriptions	Remarks
15%	Type of Language	<ul style="list-style-type: none"> Support English, Malay, Mandarin, Tamil Language Social media/messaging lingo (short forms, acronym etc.) 	<ul style="list-style-type: none"> Support English and Malay language Support Social media/messaging lingo (short forms, acronym etc.)
15%	Bot Training/ Program	<ul style="list-style-type: none"> Ease of training (complexity to train the AI, time taken, technical knowledge needed to train the bot) Method of AI training (eg: Programming, Rules Based, Document). Supervised and Unsupervised learning (Ability of bot to self learn). 	<ul style="list-style-type: none"> Bot Training via web portal Method of AI training –from zero to hero approach Fully unsupervised learning with validation
5%	Overall presentation		

Q&A