

Recent Software Development as well as System & Application Development Project;

#	Solution Title	Description
1	APSpace	Comprehensive university digital companion a multi-platform web and mobile application with full integration with all campus solutions including cashless, queue management, laundry, finance, student information system, bus shuttle, and etc.
2	APTime	Comprehensive educational scheduling system that supports developing course and exam timetables, managing changes to these timetables, sharing rooms with other events, and scheduling students to individual classes. It is a distributed system that allows multiple university and departmental schedule managers to coordinate efforts to build and modify a schedule that meets their diverse organizational needs while allowing for minimization of student course conflicts. It can be used alone to create and maintain a school's schedule of classes and/or exams, or interfaced with an existing student information system.
3	APersonalize	Delivers a recommender system from ground up, from data pipeline to data warehouse to data analytics. The recommender system aims to provide resource suggestions to the students and lecturers in university such as videos, journals and books by predicting their preferred resources.
4	APay	A full-fledged and scalable gateway integrable platform supporting major payment gateways in Malaysia which includes FPX, JomPay, Direct Debit but not limited to the mentioned.
5	Attendix	A QR based attendance solution that can be fully integrated with any student information system or timetabling solution.
6	DingDong	DingDong is an affordable, easy-to-use user engagement and targeting platform for anyone with an audience. It supports email, push notification, SMS, Microsoft Teams, almost any other chat tools that provides an API.
7	Chatbot (WIP)	API based interactive chatbot solution that communicates with any application that provides API.
8	APGate	A system that eliminates and eases the invigilation process. The system involves machine vision for face identification, by the help of camera for image processing of the captured faces and RFID reader to scan the student tags. Also, it validates the authorization of the user as well and identity matching.
9	Transix	A system that track the trips made by passengers via the transportation network. The system would then charge the passenger based on the defined costing matrix accordingly. This solution, solves the problem of transportation integration between POIs as well as the newly formed cashless and e-wallet strategy.
10	e-Forms BPA	Low level business process automation that enables the automation of complex business processes through a simple streamline of data and API retrieval. It enables organizations to achieve digital transformation.
11	SSO	An enterprise multilingual single sign-on solution for the web & mobile and attempts to be a comprehensive platform for your authentication and authorization needs.
12	Voice Enabled Building Management	An Amazon Alexa enabled project that enables smart building management system using cost effective equipment.
13	Certificate Validation	University certificate verification system was designed to computerize the process of adding certificates and verifying certificate records in secure, trackable, auditable, and versioned method.
14	QUIX	An extensive multi-tenant SaaS service that provides intelligent queue information exchange and management system.

15	Monthly Returns	A system that records all contributions by employees on a regular basis to record the impact of all activities on academics, student experience, and the organisation as a whole.
16	iGraduate	University Graduation Management System. Digital graduation management system, that allow students to complete the graduation procedures online as well employees to monitor and process the registrations and payments.
17	iConsult	An appointment and consultation booking system that dramatically simplifies the process of providing consultation and appointment booking process.
18	Exam Paper Scheduling System	The system provides clear information about where the exam paper is in the printing process and grading by the faculty.
19	OBE	Outcome Based Education - an all-in-one system from defining learning outcomes and module structures to displaying spider web based on evaluation mechanism and Malaysian Qualification Framework.
20	University Mentorship System	A system that enables the Mentor to play the crucial role in guiding students towards the right study pathway by providing analytical reporting on the mentee\2019 s activity logs and results.
21	APSearch	The indexing module that allows the transformation of data from any form into a valuable asset to engage the audience in a precise way. The Search module provide the organizations with a fast and simple way of targeting the right group of recipients.

Technical Writing Projects with Faculty of Engineering in 2019 & 2020:

- IoT Based Smart Road Transport Monitoring System for Food Industry
- A Low Cost Stabilizing Spoon for People with Parkinson's Diseases

Some example of other older projects completed in 2015 and 2016 are as follow;

SIROX:

Offline signature verification is the problem of authenticating individuals via images of their signatures, as extracted from bank cheques and similar documents. SIROX was designed to handle the full range of offline signature verification scenarios, including the worst-case scenario where only one sample signature is available for comparison.

Learnfinity:

Learnfinity is an e-learning system providing a complete range of functionalities for e-learning content creation and delivery. It offers a cost-effective solution without major systems investment. It also provides assessment capabilities to help instructors gauge student comprehension.

iSMART:

iSMART is a suite of resource planning and scheduling solutions that enables educational institutions to maximize resource utilization, streamline communications, and reduce operating costs. These solutions are optimal for scheduling of all educational activities, such as lectures, labs, tutorials, events, staff meetings, and exam boards.