

FACT SHEET

September 2015

YOUNG TECH FEST

BACKGROUND OF EVENT

As part of the Code@SG Movement, the event is designed to bring youths (aged 7 - 24 years old) and the general public together to discover, share and experience tech culture and how technology can benefit our citizens in a Smart Nation. The event is held from 9 – 10 September, at Suntec Singapore Convention & Exhibition Centre. Highlights of the event include exhibitions, national infocomm competitions and social events in celebration of all things tech. Youths and members of the public may explore coding challenges and be exposed to new technologies.

EVENT ACTIVITIES

1. Outstanding Computing Teacher Award

This yearly award recognises computing teachers in secondary schools and junior colleges who have demonstrated outstanding contributions and sustained excellence in Computing Education through innovative and engaging teaching approaches. Award winners receive sponsorship to attend an overseas Computer Science or Computing conference that is of professional relevance. A total of 14 nominations were received, out of which 8 were shortlisted and finally 2 picked as the inaugural recipients of the award.

The nominees were judged by the following criteria:

- 1) Passion for and mastery of the subject;
- 2) Pedagogy;
- 3) Student development; and
- 4) Professional development.

The recipients of the award are:

1. Ms Shashariza Bte Jupri, 30, Computer Applications Coordinator, from Chua Chu Kang Secondary School
2. Mr Scott Ng Tze Fong, 38, Computer Applications and Maths Teacher, from Bedok North Secondary School

2. Code for Charity

Code for Charity is an initiative that aims to showcase that coding is fun and can be used to solve real problems that ultimately benefit the society. Supported by the industry, which has committed monies to be unlocked for their beneficiary of choice, our nation's youths will

have the opportunity to help the less fortunate while trying their hands on coding challenges designed and developed by students from our very own Institutes of Higher Learning.

At Young Tech Fest, students from 7 Institutes of Higher Learning (IHLs) have developed simple coding challenges, which will be available for visitors to try their hands on. Singtel and Singapore Computer Society (via sponsorship of the digital apples from Singapore Pools) have also generously committed a total of S\$160,000 to be unlocked by visitors for their beneficiary of choice, SG Enable¹.

The 7 IHLs are:

- Nanyang Polytechnic (NYP);
- Republic Polytechnic (RP);
- Singapore Polytechnic (SP);
- Singapore Management University (SMU);
- Nanyang Technological University (NTU);
- Ngee Ann Polytechnic (NP); and
- Temasek Polytechnic (TP).

Event visitors may also download the Someline AppleTree App and use it to unlock digital apples, which in turn would unlock monies for charity. Someline Apple Tree, an app created by Libern Lin and his team, SomePro, from Republic Polytechnic, was borne out of the idea that people spend too much time on their phones and therefore discourages excessive smartphone usage through gamification. The team was the Tertiary Category winner of Singapore Computer Society's (SCS) Splash Awards 2014 Student Infocomm Competition.

The team, with funding from SCS, has taken Apple Tree to the next level by integrating a charity component to the app. They are aiming to unlock S\$10,000 worth of digital apples sponsored by Singapore Pools as part of the total of S\$160,000 to be unlocked by visitors at the Young Tech Fest for Code for Charity.

3. Code for Good

Code for Good is an initiative to showcase how technology can be used to benefit society in tremendous ways. Groups of students from various Institutes of Higher Learning (IHLs) used their coding skills to solve complex problems for different Voluntary Welfare Organisations.

With the help of industry partners, students received mentorship and exposure from high-level expertise to help them complete their projects. In the span of 6 months to a year, these students came up with innovative solutions like mobile apps and web platforms to help various organisations function more efficiently. At the Young Tech Fest, the following projects will be exhibited under Code for Charity:

¹ Formerly named as The Centre for Enabled Living, SG Enable changed its name in 2013. The centre was set up by the Ministry of Social and Family Development and is dedicated to enabling persons with disabilities. SG Enable will provide the community with referral services for children and adult disability schemes and facilitate the administering of grants and support for people with disabilities and their care-givers among other things. It will also help with enhancing the employability and employment options for persons with disabilities - www.sgenable.sg. 211 0888 211 2222 ida.gov.sg

Institute of Higher Learning	Project	Beneficiary
Nanyang Polytechnic – School of Information Technology	A web based application that allows for easier management of the growing amount of information due to more home visits	O’Joy Care Services
Ngee Ann Polytechnic – School of InfoComm Technology	Integrated hand grip physiotherapy system to make stress ball exercises more interesting	Thye Hua Kwan Moral Society
	Voice activated mobile app to guide the visually impaired and elderly current location to his/ her intended destination	Dialogue in the Dark
Republic Polytechnic – School of Infocomm	Teaching resource portal that enable teachers to consolidate materials all in one place for easy retrieval and use	Dyslexia Association of Singapore
	Web-based tracking system using barcodes to track school’s books and other teaching resources	Eden’s School
Singapore Polytechnic – School of Digital Media and Infocomm Technology	Math application to access students’ suitability for their math program paper	Dyslexia Association of Singapore
	Web and mobile application for doctors and patients to manage their prescriptions	National University Hospital’s Children Kidney Centre
Temasek Polytechnic – School of Informatics and IT	Mobile application to increase awareness	Dyslexia Association of Singapore
	Mobile application for Metta Cafe	Metta Welfare Society – Metta Cafe
Singapore Management University – School of Information Systems	Web application to allow teachers, parents, and students to communicate frequently to encourage better classroom behavior	Dyslexia Association of Singapore

National Infocomm Competition Face-Offs

The National Infocomm Competition (NIC) is the largest network of ICT competitions in Singapore which aim to recognise the top talents in Singapore in various ICT domains.

The inaugural Face-Offs, which will take place at Young Tech Fest, will cover the following 3 categories:

1) NIC Face-Off Competition | App Development is a first of its kind competition that brings winners from 5 major NIC competitions for a Face-Off. Secondary School Winners from Hackathon@SST, Hackathon@SG, Splash Awards, [i.code] and National Software Competition are seeded into the NIC Face-Off Competition | App Development to have a final showdown with the mobile or web app the team has created.

The 5 teams are judged based on their working prototype and its applicability in the global/regional context. The ultimate champion will represent Singapore in the 2015 Asia Pacific ICT Alliance Awards (APICTA) happening in Sri Lanka fully sponsored by IDA. The winner of NIC Face-Off | App Development is selected from among over 1000 participants from the various competitions.

2) NIC Face-Off Competition | Coding – Ace of Coders is Singapore's most prestigious coding competition that is conducted in an e-sports fashion. Students compete through real-time coding and game hosts cast the proceedings to a live audience. The competition pits teams against each other in a fantasy gaming environment. Participants write codes that control the Artificial Intelligence (AI) of their troops and the winning title goes to the most talented team that can defeat their opponent. Ace of Coders is jointly organised by IDA and School of Information Systems at Singapore Management University (SMU) in close partnership with CodeCombat, a US-based start-up. CodeCombat is a platform that allows the running of such multiplayer arenas for live coding matches. It also contains a tutorial mode which teaches a variety of programming languages in a gamified way. Over 1,000 students participated in the competition.

3) NIC Face-Off Competition | Data Analytics – Young Thinkers' Challenge is jointly organised by IDA and SAP and aims to spark the interest of youths in Data Analytics and to show insights and contribute ideas on Singapore as a SMART NATION. Having reached out to 500 students thus far, the initiative uses open datasets from various sources including data.gov.sg, secondary school students create infographics for one of the following themes using SAP's Lumira software:

- Better living
- More opportunities
- Stronger communities
- Greener environment

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