Annex A

FACTSHEET

Hackathon@SG 2015

Hackathon@SG2015, Singapore's largest hackathon, brought together more than 1,000 students, programmers, academia, designers and entrepreneurs to co-create, collaborate and tap on the potential of infocomm and media to come up with innovative solutions.

The ideal platform for individuals and businesses, the hackathon which took place on the 25 – 26 July 2015, aimed to promote **creative and fresh new perspectives on the use of government data** for the development of applications (web or mobile). It also **inspired the community** to pick up computer programming skillsets and knowledge of IT standards necessary to build solutions in areas such as: City Planning, Public Services, Healthcare, Safety & Security, Urban Mobility and Urban Living.

The event brought together 18 ministries and agencies - 12 of which provided real-life challenge statements from various domains and scenarios and sought solutions to **improve our urban environment and foster a greater sense of community spirit.**

Organised by the Infocomm Development Authority of Singapore, and IT Standards Committee and supported by the Ministry of Finance and SPRING Singapore, the event offered more than 11,000 datasets and APIs via data.gov.sg together with IoT technologies such as Tweeq[1], and virtual reality technologies for participants to develop useful applications.

There are more than $50,000 worth of prizes to be won, while viable solutions will potentially receive funding opportunities to develop the ideas further.

More details about Hackathon@SG2015 be found here: http://tinyurl.com/hackathonsg

Competition structure

Launched in April 2015 by Dr Yaacob Ibrahim, Minister for Communications and Information, the event included 15 workshops to help participants learn the basics of using tools, platforms or hardware kits, data use, UX design, ideation, the importance and application of

[1] Tweeq is designed and created by Michelle Lye, a Singapore young product engineer who has developed numerous industrial projects since her student days in polytechnic.

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standards in IoT technologies and more on a range of relevant topics to prepare for the mega hackathon.

The hackathon consisted of three segments:

<table>
<tr><th colspan="3">1) Hackathon@SG</th></tr>
<tr><th>Group</th><th colspan="2">Description</th></tr>
<tr><td>Junior category
(12 and below)</td><td>For youth to create animations and games using Scratch, a free educational programming language.</td><td></td></tr>
<tr><td>Student category
(18 and below)</td><td>Contestants received their challenge statements on the hackathon day, before the start of the event.</td><td rowspan="2">The Student and Open Categories was in the form of a 24-hour coding challenge that started on Saturday (25 July) and end on Sunday (26 July). Participants were required to create innovative applications using Open Data or Internet of Things technologies.</td></tr>
<tr><td>Open category
(open to all ages)</td><td>Participants solved agency-sponsored challenge statements or propose other solutions for the Smart Nation theme</td></tr>
<tr><td colspan="3">2) San Francisco – Hackathon@SG2015</td></tr>
<tr><td>Open category
(open to all ages)</td><td colspan="2">Some of the early success we saw from this initiative included the satellite hackathon that was held in San Francisco a fortnight ago (11-12 July), with close to 50 participants from the SG community supporting the event. The three winning teams have flown to Singapore to attend the prize giving ceremony on 31 July.</td></tr>
<tr><td colspan="3">3) MIT Hacking Medicine@SG 2015</td></tr>
<tr><td colspan="3"><u>Open to all ages</u>
Co-located with the Hackathon@SG 2015, the inaugural MIT Hacking Medicine@SG 2015 was a healthcare hackathon that revolved around the theme of “Ageing-in-place”. Participants created solutions which improve the lives of seniors, helping both their families and healthcare providers. The hackathon brought together healthcare professionals, developers, engineers, designers, and business people to ideate, co-create and hack real solutions to real healthcare challenges.</td></tr>
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Evaluation Criteria for the Hackathon@SG Competition

All participants were required to showcase their completed projects during the Hackathon@SG, and were assessed on a range of criteria including the following key elements:

1) How well the challenge has been addressed
2) Good use of government data
3) Innovation and creativity
4) How well user experience design has been incorporated into the submissions and,
5) Value and impact of the application on users.

Judges

The Judging panel includes members from the organising committee, industry partners and/or supporting organisations such as the Ministry of Health, Health Promotion Board, IDA, Smart Nation Programme Office and more.

More details on the judges and the judging criteria can be found here: http://tinyurl.com/hackathonsg

Prizes

Junior Category

- The top three teams will stand a chance to win exciting electronics Dot & Dash Wonder Pack and Sphero 2.0, Littlebits Smart Home Kit and Circuit Scribe Kit and Light Up Tesla Kit and Kano Kit (respectively).

Student Category

- The top three teams will stand a chance to win cash prizes of $9,000, $6,000, $3,000 respectively.
- Secondary School Prize where students will receive a bundled prize consisting of Red Mi Note phone, 1 Miband and 1 Mi Powerbank.
- Pre-Uni/JC Prize where team members will receive an invertix 400 3D quadcopter or equivalent.
- Standards Awards, will be awarded to the team that best demonstrates how the design or development of their solution considers the requirements of ICT standards will stand to win $1,000.

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Open Category

- The top three teams will stand a chance to win cash prizes of $9,000, $6,000, $3,000 respectively
- The seven finalists will also receive $1,000 each.
- Special prizes of $1,000 will also be awarded to five teams that are the best in the various categories: Open Data, Best OneMap, Best UX Design, Best 'Security by Design' and Standards Award

San Francisco Track

- The top three teams have won cash prizes of USD$3,000, USD$2,000 and USD$1,000 respectively.

MIT HackMed Track

- The top three teams will stand a chance to win cash prizes of $9,000, $6,000, $3,000 respectively.
- Special prizes of $1,000 will also be awarded to seven teams that are the best in the various categories: Best Design (x1), Best Business Plan (x1), People's Choice Prize (x1), and Best Addresses "Ageing-in-Place" Challenge Statement from MOH/HPB (x4).

Submissions

Total of 320 submissions were received from the 4 different categories, Junior, Student, Open and HackMed. Majority of the submissions were from the Open category, with Junior and student category producing almost on par submissions. The contents of submissions were varied covering a range of challenge statements that were given by supporting Ministries/agencies at the start of the hackathon. Full details on the challenge statements can be found in **Annex A.**

About the 19 finalists

Open Category	
Team Name	**Description**
HYDE	This solution mashes real-time data from social networks, along with other datasets released by the government. The data is plotted onto a map and visualises areas with significant events based on the data.
KNOWSY	A social app for book lovers to share their reading lists, discover top rending books and new arrivals, and interact with other pool lovers through online quizzes.

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Team ZCT	A mobile app that fosters a community spirit. With the app, neighbours can request for help/volunteers from other neighbours. It also shows other relevant information such as relevant health advisories.
Tuolumne	An iOS and Web app that allows users to take and view photos at heritage sites across Singapore, coupled with the use of bluetooth technology beacons. The beacons also enable the gathering of data such as the time spent at monuments. These datasets are shared online for other users to monitor the crowds.
BurnIn	A one-click health screening mobile app for at-risk loved ones. Individuals can book appointments for loved ones to attend screening appointments e.g. breast cancer screening.
Tejas	Data-driven, data science and API based scalable platform for increasing volunteerism, improving health standards and predicting outbreaks through correlation of diseases and other criteria. Users can also use the bulletin board to post updated information on health outbreaks.
3 Buddhas	A location based solution that allows users to find the shortest route that is sheltered. Good for hot and rainy days!
Walle	Automated object recognition on 3D Point Data for feature extraction of trees, roads and buildings.
Minions	An app for tourists to obtain real-time information on nearby attractions, events and bus routes. A heatmap is also provided using Bluetooth beacons technology to monitor the crowds. Sentosa can use the information to better plan their services and resources.
Goji	Data visualisation tool that makes credit risk analyses of companies easier and accessible for financial institutions and retail investors.

Student Category	
Team Name	**Description**
SMU- The Protocol	Contact tracing application. Associates mac address with WIFI routers. Collected realtime data from SMU Live Labs. Also enabled users to use Arduino to identify phone's mac address.
11th Hour	Smart Living solution, with focus on entertainment. Linked Cardboard to remote control with potential to control various home devices.
Helix	Transport congestion solution. Tech: Arduino, LEGO
Np-Gotta Go Fast	Retrieve inventory information. Mobile application that scans items for price for quick comparison of prices.
Brainwave	Walking stick with sensors (accelerometer, etc) to help elderly find their way home if lost.
Maker Break	Use of VR to control power, music (sound system), etc for potential Smart Home

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	solutions. Complete hardware and software solution. - Tech: VR ONE
Pointer Works	Redefine networking experience, especially in MICE, using the NabuX (handshake feature) to exchange contact information. Solution incorporates a Cloud Solution that allows users to build up their database. Intended to use LinkedIn API, but was unavailable. Other use cases: meetings, speed dating.
Full Dive	Aimed to make education more interesting by creating VR experiences to help users understand. Created a VR experience of the human body that allowed viewers to travel through the various parts for an immersive experience.
Excellence	Programmable accelerometer that helps users track exercise done by users by counting the number of sets of various forms of exercise. Sensors connected to app via Bluetooth.
GyroScope	An app to provide a more fun learning experience using VR. Students can immerse themselves in their studies and interact with their subjects.

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About Infocomm Development Authority of Singapore

The mission of the Infocomm Development Authority of Singapore (IDA) is to develop information technology and telecommunications within Singapore with a view to serve citizens of all ages and companies of all sizes. IDA does this by actively supporting the growth of innovative technology companies and start-ups in Singapore, working with leading global IT companies as well as developing excellent information technology and telecommunications infrastructure, policies and capabilities for Singapore.

About data.gov.sg

Data.gov.sg is the first stop portal to accessing more than 11,000 publicly-available datasets from 70 public agencies, tap into selected datasets to create applications or conduct research, and look for interesting applications developed using government data.

About Information Technology Standards Committee

The Information Technology Standards Committee (ITSC) was formed in 1990, under the purview of the Standards Council appointed by SPRING Singapore. It is an industry-led effort comprising volunteer members from the industry, supported by IDA Singapore and SPRING Singapore. It is a neutral platform for interested stakeholders from the industry, academia and the government to get together and look into the local needs for IT standards and establish local standards, promote the awareness and adoption of IT standards, and represent Singapore in international standards platforms. More information can be obtained from http://www.itsc.org.sg.

About MIT Hacking Medicine (HackMed)

The mission of MIT Hacking Medicine (MIT HackMed) is to energize the health ecosystem to solve some of healthcare's biggest challenges by connecting the best and most diverse minds. Since holding the first ever health hackathon in 2010, the MIT student group has organized 40 health hackathons with more than 30 national and international organizations. More than 10 healthcare start-ups have emerged from MIT HackMed's healthcare hackathons. The MIT Hacking Medicine@SG 2015 event is organised by MIT Hacking Medicine, Hacking Medicine Institute and SMART; and is an initiative of Smart Nation Singapore and IDA, supported by Ministry of Health and Design Singapore Council. More details can be found at http://hackingmedicine.mit.edu/upcoming-events/mit-hacking-medicinesg-2015/

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About Ministry of Finance

The Ministry of Finance aims to advance the well-being and development of Singapore through Finance. The Ministry strives to achieve a balanced budget through prudent fiscal policy, foster a regulatory environment conducive to business and enterprise, ensure prudent investment of the Government's reserves and other public funds, and sets policies for government procurement, e-government, customs regulation, accounting standards and business regulation.

We achieve this together with our departments (Accountant-General's Department, Centre for Public Project Management, Singapore Customs and Vital – Centre for Shared Services), and statutory boards (Accounting & Corporate Regulatory Authority, Inland Revenue Authority of Singapore and Tote Board).

For more information, please visit www.mof.gov.sg, or look us up on Facebook (www.facebook.com/mofsg) and Twitter (www.twitter.com/mofsg)

About SPRING Singapore

SPRING Singapore is an agency under the Ministry of Trade and Industry responsible for helping Singapore enterprises grow and building trust in Singapore products and services. As the national standards and accreditation body, SPRING develops and promotes an internationally-recognised standards and quality assurance infrastructure. SPRING also oversees the safety of general consumer goods in Singapore. As the enterprise development agency, SPRING works with partners to help enterprises in financing, capability and management development, technology and innovation, and access to markets. Please visit www.spring.gov.sg for more information about SPRING Singapore.

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