ICPC/IBM Challenge

1. Introduction

This is an additional contest for the participants of the ACM/ICPC Singapore Regional Contest to exercise their other programming skills and creativity. It is similar to a hackathon but it is done during the two months period from now until the regional contest in December 2015.

The challenge is also opened to any team of 3 students from any university or polytechnic in the region who are willing to come to NUS, Singapore during the regional contest at their own expense (air-ticket and accommodation) if their applications are selected as winning entries.

Our main sponsor for ACM/ICPC has offered their Bluemix technology as a development platform for all participating teams to develop their applications. To sign up for IBM Bluemix Online course, go to <http://bit.ly/1Z2gG8r>.

1. Themes of the challenge
   1. Applications for hosting big scale competition such as IOI and ACM/ICPC world final.
   2. Applications for Smart Nation Initiatives.

Possible applications are listed below.

1. The following prizes will be awarded to the best 3 entries submitted. The value of the prizes may be increased if we can get more sponsorship. We may also increase the number of prizes if more than 3 good entries are received. On the other hand, if no entries are considered good enough by the judging panel, no prize will be awarded.
   1. Winner: S$1500
   2. Runner-up : S$900
   3. Second Runner-up: S$600
2. Schedule:
   1. Registration for Bluemix account and online course

Now – 17 Oct 2015

* 1. Development of applications

Now – 21 Nov 2015

* 1. Submission of applications

22 Nov 2015

* 1. Announcement of 3 (or more) shortlisted applications

30 Nov 2015

* 1. Presentation of shortlisted applications for final judging

9 Dec 2015

* 1. Award ceremony

10 Dec 2015

1. Possible applications for hosting programming contest
   1. Application for automatic attendance taking. When big scale competition is conducted, there are always days for excursions. Moving of big number of participants is always a difficult task to manage. It is important that all the participants are transferred from one place to another without leaving anyone behind. An application that is able to automatically direct all participants to the guide assigned to them and for the guide to know who are still not with him would be useful.
   2. During a general assembly of the team leaders in IOI, they are required to vote for certain motions and it is always time consuming and inaccurate for people to raise their country flags and manual counting is carried. An application that allows the team leaders to vote on the issues can cut down in the time needed for counting the votes and the result would be automatically captured. The application should be flexible in the sense that when there is a requirement for the team leaders to select more than one choice, the application should allow. The application can also allow the team leader to indicate their wish to speak on the topic that is currently being discussed. A screen indicating the people wishing to speak will aid the facilitator to control the floor during discussion.
   3. When the teams arrive at the competition, they have to complete a registration process. It is always very messy when many teams are coming at the same time and there are multiple stations to complete. An application to organize the process for queueing up the teams and to direct the team to next available station would be useful.
   4. Any other applications that would be useful.
2. Possible application for smart nation
   1. Any application that is useful in the household.
   2. Any application that is useful for the old age people.
   3. Any application that is useful for the young to learn programming
3. Terms and conditions:
   1. All applications submitted must use IBM Bluemix as the platform for their development. If an entry does not use Bluemix during its development, the entry will be disqualified.
   2. The Intellectual Property of the application belongs to the organizer of the contest.
   3. The shortlisted entries should be presented to a panel of judges during the regional contest to decide the final placing.
   4. The judges’ decision is final. Any form of protest or appeal will not be entertained.