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|  | Transportation Hackathon |
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Transportation Hackathon

**Introduction:**

With rapidly growth of population, traffic issues become more and more seriously these days. To efficiently use limit traffic resources and to give a more intelligent public transport experience which can lead Melburnian to travel more by public transportations methods, we are going to establish a Hackathon. The hackathon targets to build applications for VIC government to relieve traffic issues. In this report, hackathon related info, advertise methods, potential challenge, agenda and related participants will be included in following content.

1. **Hackathon related info**
2. **Site**

The hackathon tends to cooperate with local universities in Melbourne and be held in these universities, like Melbourne University or Monash Universities. Hackathon hold in universities can not only easy for participants to arrive but also let more students be involved so that students can learn more from this hackathon. Furthermore, universities have enough space and devices to handle the hackathon and reduce the hackathon’s spending.

1. **Time**

Hackathon tends to start from Saturday morning to Sunday evening, so that most participants have available time. At the same time, it should avoid conflict with public holiday!

1. **Theme**

This hackathon is target at to improve public transportation use, and solve last mile problem, especially at peak time.

1. **Related data**

Live traffic status, Bike share stations (From RACV), Incidents & alerts (From VicRoads), Pedestrian traffic, Bicycle route, Bus stops (From Melbourne data), Tram station, train station(PTV), and any other data from Victorian Government data, Melbourne data, National Map.

1. **Advertise methods:**

For there are various kinds of participants included in this hackathon, different advertise methods are included. One target is skilled programmers in companies. This program need to cooperate with different companies to get funds, at the same time posters will be sent to the company to inform skilled programmers. Another target is talented students and volunteer students from universities. For this program collaborates with universities, we can let mentors in universities to send e-mail to students and present posters on school’s poster board.

1. **Potential challenge:**
2. **Financial and site challenge:**

Financial and site problem is major problem of this hackathon, time will be spent to negotiate with school to get appropriate site which can provide enough space, devices, 24-hour electricity supply, 24-hour water supply and enough restroom. Financial support from company is also important, for example solve security problem, food problem, prize offer all need money. We can negotiate with transportation company, IT company. Like we will give all final codes for company, to exchange financial support.

1. **Security problem:**

Security problem is a serious problem of any activity. First, security stuffs are needed from security companies. All participants should be examined before entered. Medical

Security also cannot be ignored, medical staff or an ambulance should be prepared.

1. **Food problem**

For Australia is a Multicultural country, we need to respect everyone’s eating habits, like vegetarians, those who does not eat special meat or those who allergy to some food. Food need to be pre-ordered and pre-prepared form food company.

1. **Accreditation Criteria Problem**

Every programmer may think himself has the best solution, so grading criteria is important to avoid conflicts and get the best app for this hackathon.

1. **Hackathon Schedule:**

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| Saturday | |
| 09:30AM | DOORS OPEN AND BREAKFAST |
| 10:30AM | OPENING CEREMONY & PRESENTATIONS |
| 11:30AM | CODING BEGINS |
| 12:30PM | LUNCH |
| 01:30PM | BREAKOUT SESSION(S) |
| 06:30PM | DINNER |
| 12:00AM | HACK THROUGH THE NIGHT |
| Sunday | |
| 7:30AM | BREAKFAST |
| 12:30PM | LUNCH |
| 1:30PM | SUBMISSION DEADLINE |
| 2:30PM | ROUND 1 JUDGING |
| 3:30PM | JUDGE DELIBERATION |
| 4:00PM | AWARDS |
| 4:30PM | EVENT CLOSE |

1. **Related participants**
2. **Skilled programmer**

Skill programmers in hackathon will provide more professional solution or more practical solution in the hackathon, they may get good prize from company and give professional advice to other participants.

1. **Students**

Junior students may join in as a volunteer, because most of junior students does not have much programming skill. In the hackathon, they will get a general understanding of future career. For senior, they may give talented ideas, and get advice from skilled programmers.

1. **Public transportation company and map company**

Company will get apps or related codes from this hackathon. This can help company to improve navigation at peak time and alleviate congestion

1. **IT company stuff or HR**

Get more influence among programmers, and to get suitable programmer for company.

1. **General public**

Transportation system will be improved, this will let public avoid congestion area and get destination quicker.

1. **Conclusion:**

This hackathon main target is to improve public transportation for public and relieve congestion of some area. Problem like finical, site, security, food and grading criteria need to be focus and overcome. Programmer from company will get good prize, students will get more experience. Related company can get precious data and right talent for company.

Appendix

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