

<b>Date:</b>	<b>16<sup>th</sup> January 2014</b>
<b>Time:</b>	<b>11:15 AM - 12:30 PM</b>
<b>Venue:</b>	<b>SIS Level 4, Meeting Room 4.6</b>
<b>Attendees:</b>	<p><b>Team:</b></p> <ul style="list-style-type: none"> <li>• <b>Shanaaz</b></li> <li>• <b>Wah Chun</b></li> <li>• <b>(Other team members had class during this slot)</b></li> </ul> <p><b>Client: Chris Boesch</b></p>
	<p><b>Agenda:</b></p> <ul style="list-style-type: none"> <li>- <b>Prof Chris presentation to RP Polytechnic Pedagogy Discussion</b></li> <li>- <b>Team sitting in to understand Sponsor's expectations</b></li> </ul> <p><b>Discussed about SMU pedagogy learning</b>  Bottom 20% struggle to keep up  Building SingPath for students, instead of going for summer classes  Challenge in self directed learning vs mastery learning  Practice feature worked for final year students in IB Program  Extrinsic vs Intrinsic Motivation</p> <p><b>Quests and Tutorials:</b>  Quest- Code adventure –story element  SingPath wants to move pass by the syntax – want students to think high level  There will be “The Spy Who Coded 2”</p> <p><b>MBCoaching</b>  Described the different coaches  Encourage users on improving their bottom 10%, their weakest problems  Weakest – based on the data collected from the average of 5000 users and how long they take (Diagnostic)  Mentioned that there is no score, just feel good  Shanaaz – it will be done around end of Jan, early Feb</p> <p><b>Purpose-driven coding</b>  Encourage students – make them less frustrated about studyin  The first top 20 students will be videoed and featured  Subsequently once the really good top 20 sees it and they want to be in that top 20 then they will use singpath and be in the next list</p> <p>OR</p>

Get top level industry leaders and/or famous personalities (eg. Razor CEO) to mention about the benefits of coding

### **Mentorship Opportunities**

Team based tournaments

Mentor Assignment – 2 trials in December

Different from codeacademy – SingPath gives you the compiler error and gives students a more realistic expectation of coding

SoftLayer sponsored tournament (SMU SIS 2013)

- Provided students Cloud Credit
- Best Coder prize giveaways

### **Collaboration Ideas**

- Want students to be able to earn more than the minimum wage
- SingPath focusing more on big data, analytics
- Would like to collaborate with staff to come up with Python questions
- Tuning the questions to entry level coders
- Train RP instructors to hold in class tournaments
- Based on the data (when RP students register their schools), can conduct research like did the weak students improve after using SingPath? (or any experiment/research paper)
- RP:
  - o Also facing the same problem with 30-40% of cohort being weak
  - o Students would be enthusiastic about SingPath
  - o Worry about Year 2 and Year 3 who have encountered bad experience with IT – so they might be less cooperative
  - o Year 1 Students would be more enthusiastic
- Chris's 5 year plan : what is Singapore's specialization needs, but currently Singapore wants a general coder in Java, Javascript, etc. (Chris)
- Lack of specialization in Singapore
- RP instructor used SingPath (comments):
  - o Would prefer if you could skip the question – which is an available feature
  - o May need to change some questions – to align with the syllabus
  - o C (Prof Chris): May share the pool of questions with JC Computing instructors
  - o Questions will be open source
- Extrinsic motivation: badges, challenges
- Recommend instructors to find students to come up 5-10 questions after using SingPath

- 3<sup>rd</sup> Year students, finding the top 5% with National Polytechnic Competition
    - o Award macbook air
    - o Letters of recommendation for the top 5
  - Trying to get other polytechnics
  - Annual RP Coding Competition
  - 14 scene RP Quest Adventure – get help from students in Media for the videos and the story element
- RP:
- o Instead of presentation, need to do Tournament
  - o Try to encourage a habit (a 'kata') to code everyday
  - o The academic researcher hopes to be able to measure the outcomes and attribute it due to a feature and not find out which of the multiple features results in that
  - o C: Nominate someone to do up the questions then get the students to play with SingPath and come up with questions
  - o C: Could do a coding path specific to RP
  - o Director finds this attractive
  - o Need to talk to their corporate officers
  - o Poly Tournament: would like it if RP could get 40 students, would be great if one of the staff members did up the questions as well
  - o C: Need to have Poly testers and not SMU testers – since they are not the target group
  - o C: Explained about team tournament – would like to beta test with RP
  - o Automatic Mentor Assignment – (RP qn) is there a chance of cheating? C: Hard to dictate code and mentors do not touch the keyboard or the mouse and they are not allowed to bring their laptop over. Even if copying, they could still be learning
  - o RP would like some analytics report about their students
  - o Strong correlation to module and Singpath – C: No promises but there are some students in top caliber who have done well in SingPath

**Prepared by,**

**Shanaaz & Wah Chun**