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## Tester's Package

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## Singpath by GENShYFT Consent Form

**STUDY TITLE:** *Study on Usage of Singpath Application*

**INVESTIGATORS:** MOHAMED YOUSOF BIN SHAMSUL HAMEED, SHANAAZ D/O MUSTHAFA KAMAL, GLEN WONG KEE SIANG, FARIQ BIN SAID, KEE ENG SEN, NG WAH CHUN

**DESCRIPTION:** You are invited to participate in the Usability Testing of Singpath, an innovative platform for users who are interested to learn coding. You will be asked to perform a series of tasks using the Singpath application online and complete questionnaires about the application after the experiment.

**TIME INVOLVEMENT:** Your participation will take approximately 15 minutes.

**RISKS AND BENEFITS:** There are no known risks associated with this study. The results of this study will be used to improve the usability of the Singpath web application.

**PARTICIPANT'S RIGHTS:** If you have read this form and have decided to participate in this project, please understand your **participation is voluntary** and you have the **right to withdraw your consent or discontinue participation at any time without penalty or loss of benefits to which you are otherwise entitled. The alternative is not to participate.** You have the absolute right to refuse to answer any questions. With your additional permission, your photographs will be taken during the study.

### **OTHER INFORMATION:**

If you have any questions, concerns or complaints about this research, its procedures, risks and benefits, please contact Ng Wah Chun at 9618-9514 or wahchun.ng.2011@smu.edu.sg

I give consent to be photographed during this study:     Yes                       No

### **1.1 Investigator's Statement:**

I have explained and defined in detail the research procedures in which the subject (or legal representative has given consent) has consented to participate.

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Investigator's Name

Investigator's Signature

Date

### **1.2 Participant's Statement:**

I understand that participation is voluntary. Refusal to participate will involve no penalty. I understand that I may discontinue participation at any time without penalty or loss of accrued benefits (Benefits are accrued in proportion to the amount of study completed or as otherwise

stated by the researcher) to which I am otherwise entitled. I declare that I am at least 18 years of age.

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Participant's Name	Participant's Signature	Date
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## **Introduction** **Singpath Application**

GENShYFT | Singpath

A warm welcome to Singpath User Acceptance Testing! We are a team of 6 students from Singapore Management University working on extending Singpath as our Final Year Project.

The purpose of this test is to allow us to better understand the ease of navigation and usability of Singpath web application, in particular the extended features, based on your feedback.

We thank you for taking the time out of your busy schedules to take part in this user testing session. Your honest feedback will be very much appreciated.

Guidance will not be provided in some parts of the test when achieving certain objectives. This is to simulate the actual implementation of the application when it is released to the public. We seek your kind understanding.

### **Background**

The world lacks individuals with the programming skills. As we navigate through the digital era these skills become indispensable for anyone who wishes to succeed in the ultra-competitive landscape. Nations worldwide are clamouring over the few programmers in the world, resulting in acute shortage of programming talents that are solely needed to fuel the demand for increasing digital growth. Singapore is no exception.

Singpath serves to meet Singapore needs to equip students with the necessary programming basics to meet the nation's aim of increasing workforce productivity.

### **Introduction**

Singpath, a web application, was created for users who want to learn programming in a fun and interactive way.

As with any other kinds of learning, it requires motivation, both intrinsic and extrinsic, in order to sustain interest enough for the user to acquire a reasonable amount of mastery in the chosen skill. This applies to learning programming as well.

Our added functionalities to Singpath will bridge the gap and allow for both forms of motivation to reach the users of Singpath.

### **Objective**

Be as natural as possible while going through this study.  
Simple instructions are listed on the next page. Feel free to let us know how you feel about Singpath!

## 2. Task Instructions

### 2.1 Map-View

ID	Test Description	Date Tested	Outcome
1	Access Map View Page	15/2/2014	
2	Select ALL for School type and find one Secondary School – Singapore Chinese Girls' School on the map	15/2/2014	
3	Select ALL for School type and find one Tertiary School – Ngee Ann Polytechnic on the map	15/2/2014	
4	Select ALL for School type and find one University – Singapore Management University on the map	15/2/2014	
5	Select Secondary for School type and find one Secondary School – Juying Secondary School on the map	15/2/2014	
6	Select Tertiary for School type and find one Tertiary School – Victoria Junior College on the map	15/2/2014	
7	Select University for School type and find one University – National University of Singapore on the map	15/2/2014	
8	Select University for School type and found one Secondary School – Bedok North Secondary School (not supposed to be there)	15/2/2014	

## 2.2 Events & Ranking

ID	Test Description	Date Tested	Outcome
1	Access Events page	15/2/2014	
2	Select "I'd like to participate" for IDA Secondary School Tournament	15/2/2014	
3	Select "I'd like to come watch" for IDA Secondary School Tournament	15/2/2014	
4	Select "Keep me posted" for IDA Secondary School Tournament	15/2/2014	
5	Select "+1" for IDA Secondary School Tournament	15/2/2014	
6	Select "I'd like to view the rankings" for IDA Secondary School Tournament	15/2/2014	
7	Select Facebook share button and share eventsTable.html on wall, check Facebook to verify that eventsTable.html has been successfully shared on Facebook wall	15/2/2014	
8	Select "Return to Last Visited Page"	15/2/2014	
9	Select "I'd like to participate" for National JC Coding Competition	15/2/2014	
10	Select "I'd like to come watch" for National JC Coding Competition	15/2/2014	
11	Select "Keep me posted" for National JC Coding Competition	15/2/2014	
12	Select "+1" for National JC Coding Competition	15/2/2014	
13	Select "I'd like to view the rankings" for National JC Coding Competition	15/2/2014	
14	Select Facebook share button and share eventsTable.html on wall, check Facebook to verify that eventsTable.html has been successfully shared on Facebook wall	15/2/2014	
15	Select "Return to Last Visited Page"	15/2/2014	
16	Select "I'd like to participate" for National Polytechnic Coding Competition	15/2/2014	
17	Select "I'd like to come watch" for National Polytechnic Coding Competition	15/2/2014	
18	Select "Keep me posted" for National Polytechnic Coding Competition	15/2/2014	
19	Select "+1" for National Polytechnic Coding Competition	15/2/2014	
20	Select "I'd like to view the rankings" for National Polytechnic Coding Competition	15/2/2014	
21	Select Facebook share button and share eventsTable.html on wall, check Facebook to verify that eventsTable.html has been successfully shared on Facebook wall	15/2/2014	
22	Select "Return to Last Visited Page"	15/2/2014	

## 2.3 Mastery-based Coaching

ID	Test Description	Date Tested	Outcome
1	Access Mastery Coaching page	15/2/2014	
2	Listen to Audio file once user accesses Mastery Coaching page	15/2/2014	
3	Select New Mentor and select a new coach, 'Shannon'.	15/2/2014	
4	Select 'Start Practicing' and ensure that in the next page – Shannon is the coach	15/2/2014	
5	Select the Solution box and attempt to solve the question incorrectly then click Run. You should hear the coach recommendation to check the compiler	15/2/2014	
6	Do not type anything for 30 seconds – you should hear a message that the user is inactive	15/2/2014	
7	Go back to the Mastery Coaching page – Shannon should be the selected coach	15/2/2014	
8	Select Start practicing – you should hear a 'welcome back' message	15/2/2014	
9	Go back to the Mastery Coaching page – select "New Path" then 'Hide'. The paths should disappear	15/2/2014	
10	Go back to the Mastery Coaching page – select "New Path" then 'Click to here open path menu'. Under Path Name, Java, click "Master it Now". You should be brought to a Java question and Shannon should still be the mentor	15/2/2014	
11	Go back to the Mastery Coaching page – Shannon should be the 'Current Mentor' and Java should be the 'Current Path'	15/2/2014	
12	Log out and log in and go back to Mastery Coaching page. The 'Current Mentor' should be Shannon and the 'Current Path' should be Java. You should hear Shannon's audio file.	15/2/2014	
13	You should click "Start Practicing" and attempt the question correctly. The mentor will play a motivational message.	15/2/2014	

## 2.4 Purpose Driven Coding

ID	Test Description	Date Tested	Outcome
1	Access Purpose Driven page. Find "Select Title " and a Select Drop down box	15/2/2014	
2	Select a title. An image and description will appear according to the title highlighted. Video 1 and Video 2 are unlocked; hence you will see the Play button. Other videos are locked, you will not be able to play them	15/2/2014	
3	Select Video 1 and click play. User will be directed to another page and video will play	15/2/2014	
4	Fill in the feedback options which will appear	15/2/2014	
5	Click Next without selecting any option. The Next button should be disabled. Now input feedback and press Next. You will be directed to the next video (Video 2)	15/2/2014	
6	On the bottom of the page, is a video progression gallery. It will indicate the videos that you have unlocked (1 and 2). Click on the first video to redirect to video 1 page	15/2/2014	
7	Click video 2 on the video progression gallery to redirect to video 2 page	15/2/2014	
8	Click Respond to survey, input feedback and submit. User will be prompted that new video has been unlocked	15/2/2014	