Sri Lanka Institute of Information Technology

PROJECT REGISTRATION FORM

(This form should be completed and submitted on or before 3.00 PM, Friday 3rd March, 2017)

The purpose of this form is to allow final year students of the B.Sc. (Hon) degree program to enlist in the final year project group. Enlisting in a project entails specifying the project title and the details of four members in the group, the internal supervisor (compulsory), external supervisor (may be from the industry) and indicating a brief description of the project. The description of the project entered on this form will not be considered as the formal project proposal. It should however indicate the scope of the project and provide the main potential outcome.

PROJECT TITLE	Software productivity measuring tool with team allocation
RESEARCH GROUP	
PROJECT NUMBER	(will be assigned by the lecture in charge)

PROJECT GROUP MEMBER DETAILS: (Please start with group leader's details)

	STUDENT NAME	STUDENT NO.	CONTACT NO.	EMAIL ADDRESS
1	K.G.D.R.Perera (GROUP LEADER)	IT15112538	0778297997	dasperera2@gmail.com
2	Gamaarachchi G.A.C.Y	IT15111548	0714106446	chyesith@gmail.com
3	Uvindasiri M.A.N.U.K	IT15413802	0765244011	Uthpala.uvindasiri@gmail.com
4	P.K.H.Palihakkara	IT15113900	0771985502	Pubudukaviranga20@gmail.com

SUPERVISOR

Dilshan de Silva		
Name	Signature	Date

CO-SUPERVISOR (will be assigned by the Supervisor, if necessary)

Name	Signature	Date

EXTERNAL SUPERVISOR (if any, may be from the industry)

Name	Affiliation	Contact Address	Contact Numbers	Signature/Date

ACCEPTANCE BY CDAP MEMBER

Name	Signature	Date

PROJECT DETAILS

Brief Description of your Research Problem:

Coding conventions have been specially designed for produce high quality code. But there is no certain way to check and monitor the code quality of the software developer. Most of tools are complex and we need to have good knowledge about metrics to handle this and they only focus code complexity most of them are just for check code complexity and an accurate method is essential for developer, project manager to check code quality to predict defective source code than metrics purely focused on information about source code. Even interns in a company also get permanent without proper understanding of their work and task allocation also done by without any proper idea about developer code standards. There's no proper measure to find out their performance in terms of the code quality of their work and allocate tasks for developer accordingly to get the maximum use of resources in a project.

Description of the Solution:

A Tool for measure code complexity of the developer and ranking system for developer.
View for developer and project manager to retrieve progress through the charts.
The tool will use the standard metrics and new propose metrics and it will reduce the maintenance cost and effort to increase the productivity of the programmer by checking the software quality standards, coding conventions and code complexity and by using the ranking system can allocate the suitable developers in to the relevant project groups.

Main expected outcomes of the project:

Tool will consist with developer complexity values based each
1)Execution time
2)Readability
3)Program structure
And ranking system for developers to how they are perform.
Intelligent member allocation for project using the ranking system and project type.

WORKLOAD ALLOCATION (Please provide a brief description about the workload allocation)

MEMBER 1	K.G.D.R.Perera (IT15112538)
Check the code complexity program structure incorporating with metrics and new purpose metric and view the using charts	

MEMBER 1	P.K.H. Palihakkara (IT15113900)
Check the code complexity execution time incorporating with metrics and new purpose metric and view the using charts	

MEMBER 3	Uvindasiri M.A.N.U.K (IT15413802)
Check code complexity readability incorporating with metrics and new purpose metric and view the using charts	

MEMBER 4	Gamaarachchi G.A.C.Y (IT15111548)
Predicts the most suitable member to project allocated and scheduled using algorithms ranking system project type also consideration here	

DECLARATION

"We declare that the project would involve material prepared by the Group members and that it would not fully or partially incorporate any material prepared by other persons for a fee or free of charge or that it would include material previously submitted by a candidate for a Degree or Diploma in any other University or Institute of Higher Learning and that, to the best of our knowledge and belief, it would not incorporate any material previously published or written by another person in relation to another project except with prior written approval from the supervisor and/or the coordinator of such project and that such unauthorized reproductions will construe offences punishable under the SLIIT Regulations.

We are aware, that if we are found guilty for the above mentioned offences or any project related plagiarism, the SLIIT has right to suspend the project at any time and or to suspend us from the examination and or from the Institution for minimum period of one year".

	STUDENT NAME	STUDENT NO.	SIGNATURE
1	K.G.D.R.Perera (GROUP LEADER)	IT15112538	
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3	Uvindasiri M.A.N.U.K	IT15413802	
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