



Sri Lanka Institute of Information Technology

PROJECT REGISTRATION FORM

(This form should be completed and submitted on or before 11.55 PM, Friday 22nd January, 2020)

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

(As per the accepted topic assessment form)

EduEasy – Smart Learning Assistant System

RESEARCH GROUP

(as per the Topic assessment Form)

E-Learning and Education

PROJECT NUMBER

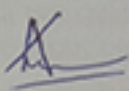
2020-009

(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	Jayasuriya J.A.T.P. (GROUP LEADER)	IT17112192	0711356850	jaytharindu@gmail.com
2	P.D. Gallage	IT17407458	0773639594	pavanigallage28@gmail.com
3	J.M.S.D. Jayasundara	IT17153096	0772114224	salinda.jayasundara3010@gmail.com
4	L.A.P.Y.P. Nuwanjaya	IT17106634	0778914379	yasiruc2@gmail.com

SUPERVISOR Details

Dr. Anuradha Karunasena		21/01/20
Name	Signature	Date


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

Ms. Pradeepa Bandara		
Name	Signature	Date
co-supervisor as ill soon later		

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

Name	Affiliation	Contact Address	Contact Numbers	Signature/Date

ACCEPTANCE BY CDAP MEMBER

Mr. Amarasena		21/01/2020
Name	Signature	Date

PROJECT DETAILS

Brief Description of your Research Problem: (extract from the topic assessment form)

As the first problem, we see a lot of students struggle in the classroom when it comes to note taking. Sometimes it happens because of lack of English knowledge and sometimes it is because of the speed of the lecturer. Students also struggle when it comes to finding related questions and reference books/articles. So this is a major issue which should be addressed for the benefaction of students.

[1] M. Ketchell, 'Better note-taking can help students who struggle with English', 2017. [Online]. Available: <https://theconversation.com/better-note-taking-can-help-students-who-struggle-with-english-72208> [Accessed: 28-November-2019]

[1] UNC, 'Effective Note-Taking in Class, 2019. [Online]. Available: <https://learningcenter.unc.edu/tips-and-tools/effective-note-taking-in-class/> [Accessed: 28-November-2019]

[1] A. Kovačević, 'How e-Learning Providers Can Help Students Who Struggle Online', 2019. [Online]. Available: <https://elearningindustry.com/elearning-providers-help-students-struggle-online> [Accessed: 28-November-2019]

Description of the Solution: (extract from the topic assessment form)

The proposed solution is a web application. In this application four main problems will be addressed separately.

First, the lecturer's voice is recorded and transcribed into a summarized note. Then the lecturer can observe it and correct manually if there are any errors. Then the lecturer can submit the note. After that, students can see the summarized note in their interface.

As the second component, there is a Slide Matcher. It means, when the student refers a particular topic/phrase in the note, the application can redirect to the relevant place in the lecture slide.

Third component is the Question Presenter. Student can find questions online related to the lecture. Basically the application finds all the relevant question from deferent online resources present it to the student in a particular order.

Fourth component is the reference finder. In this section, the application will find exact relevant places in different online resources and present to the student.

Main expected outcomes of the project: (extract from the topic assessment form)

Main Objective: Develop an E-learning application for students to effectively learn and revise lectures done at the university.

Sub Objective 1: Get the recorded voice of the lecturer and transcribe it into a summarized note.

Sub Objective 2: Matching the lecture slide content according to the generated transcript.

Sub Objective 3: Find questions online relevant to different part of the lecture.

Sub Objective 4: Find exact important places in relevant reference books.

WORKLOAD ALLOCATION (extract from the topic assessment form)

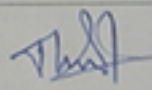
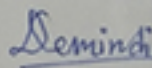
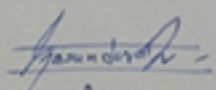
(Please provide a brief description about the workload allocation)

MEMBER 1	
	<p>Note Taker Component</p> <p>Capture the lecturer's voice using a voice recorder and automatically store it in the computer.</p> <p>Develop a method to create transcript of the voice recording.</p> <p>Create an algorithm to identify the important parts of the voice record and create a summarized lecture note by removing unnecessary parts, then store in the database.</p>
MEMBER 2	
	<p>Reference Finder Component</p> <p>Retrieve the summarized notes from the database and scan/read it.</p> <p>Develop an algorithm to identify important keywords/phrases from the notes and create a method to search for online references using those keywords/phrases.</p> <p>Create a database to store online reference documents for offline use.</p>
MEMBER 3	
	<p>Question Presenter Component</p> <p>Find questions from online resources related to the summarized lecture note.</p> <p>Develop an algorithm to identify suitable keywords/phrases suitable for questions & create a method to find relatable questions from online resources.</p> <p>Create interfaces to display questions in a clear way and arrange them accordingly.</p>
MEMBER 4	
	<p>Slide Matcher Component</p> <p>Match the lecture slide content according to the summarized lecture note.</p> <p>Create an algorithm to identify unique keywords/phrases which are common to both lecture slides & the summarized note and create a method to match lecture slides with the particular area of the note.</p> <p>Develop additional interfaces and UX/UI improvement components.</p>

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".

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