

CITE Research Symposium
2002

6 July, 2002

MR. Dominic Kwok



Dissertation Title

- ❖ Implementation of web-based collaborative tool for learning computer programming: A case study

Problem Identified

- ❖ Students do not make good use of school's discussion forum for learning.
- ❖ Many students hand in project by “copying” others' program and teachers are found difficult to justify the working part of the student. Especially when the projects are done by group.

Problem Identified

- ❖ Peer support and teacher support are inefficient.
- ❖ Lack of collaborative tool.



Purposes of the study

- ❖ The purposes of the study is to explore how to facilitate teaching and learning with the discussion forum of a web-based collaborative tool.

Theoretical Framework

- ❖ Collaborative learning
- ❖ Literature overview
 - The Vygotskian concept of zone of proximal development
 - Essential components for collaborative learning by Johnson and Johnson

Implementation

- ❖ Stage 1: Grouping
- ❖ Stage 2: Negotiation
- ❖ Stage 3: Collaboration
- ❖ Stage 4: Presentation
- ❖ Stage 5: Feedback and further data collection



Collection of data

- ❖ Quantitatively:
 - Usage statistics
- ❖ Qualitatively:
 - Questionnaires
 - Interviews
 - Comment in the forum
 - Researcher's observations

Screen Shot Demo




General Discussion

Visual Basic Discussion Forum - Microsoft Internet Explorer

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

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Save Password
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There are 13 Posts in 13 Topics and 227 Users

Forum	Topics	Posts	Last Post
- General Discussion			
 Instructions	1	1	10/17/2001 18:22:10 by: Kwok Sir
- Testing Only			
 Students can test their post here	7	7	10/20/2001 11:11:26 by: Chan Tai Ming

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完成 網際網路


Private Discussion

Visual Basic Discussion Forum - Microsoft Internet Explorer

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Forum	Topics	Posts	Last Post
- General Discussion			
 Instructions	1	1	10/17/2001 18:22:10 by: Kwok Sir
- 3A			
 Group 2	2	2	10/17/2001 18:44:15 by: User B
- Testing Only			
 Students can test their post here	6	6	10/19/2001 14:12:37 by: Kwok Sir

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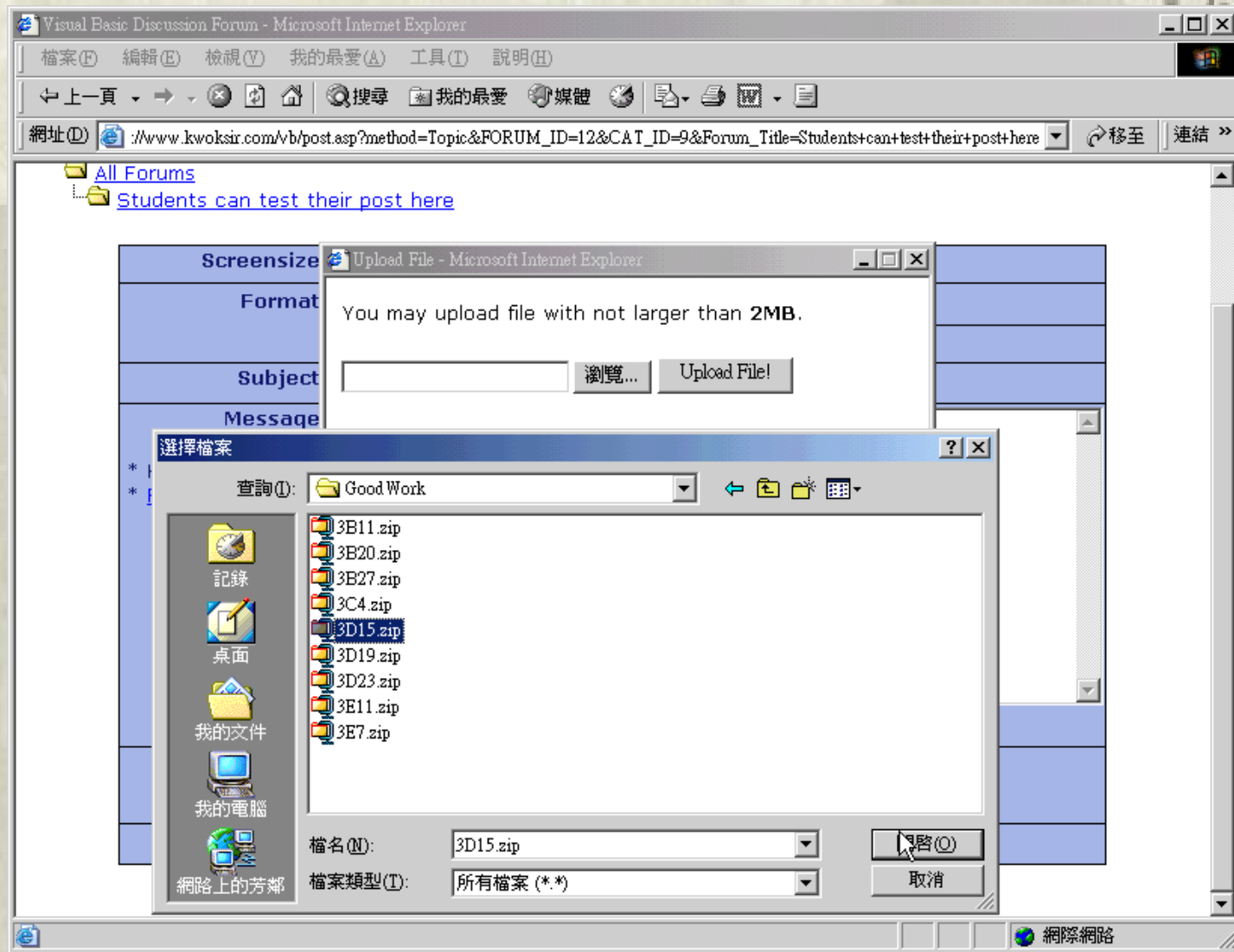
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	Forum	Topics	Posts	Last Post	
- General Discussion					
	Instructions	1	1	10/17/2001 18:22:10 by: Kwok Sir	
- 3A					
	Group 1	3	3	10/19/2001 18:26:45 by: Chan Tai Ming	
- Testing Only					
	Students can test their post here	6	6	10/19/2001 14:12:37 by: Kwok Sir	

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File upload feature



Administration features

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Forum	Topics	Posts	Last Post	Moderator(s)	
- General Discussion					
Instructions	1	1	10/17/2001 18:22:10 by: Kwok Sir		
- 3A					
Group 1	3	3	10/19/2001 18:26:45 by: Chan Tai Ming		
Group 2	2	2	10/17/2001 18:44:15 by: User B		
Group 3	0	0	10/15/2001 10:18:40		
Group 4	0	0	10/15/2001 10:19:14		
Group 5	0	0	10/15/2001 10:19:24		
Group 6	0	0	10/15/2001 10:19:34		
Group 7	0	0	10/15/2001 10:19:45		

網際網路

Live Demo

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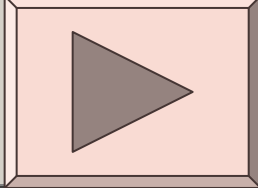
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Findings

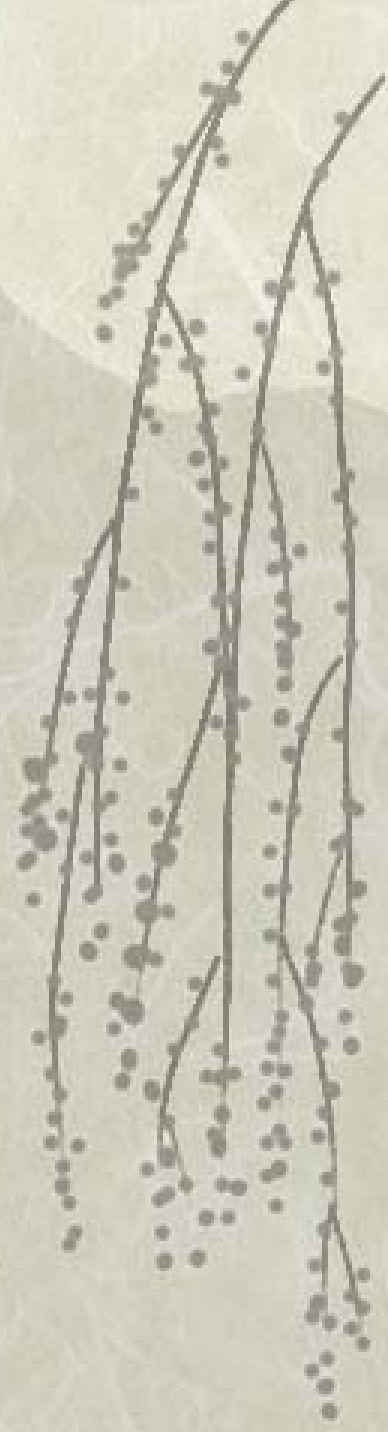
- ❖ Task work and team work leadership
- ❖ File sharing feature is essential
- ❖ Assessment and participation
- ❖ Issue concerning computer programming
- ❖ Effective ways of facilitating teaching & learning activity with collaborative platform

Findings

- ❖ Collaborative platform is not useful to every activity conducted in the study
- ❖ The platform helps students with low learning attitude a little
- ❖ Large work load for teachers

Discussion

❖ Comment?



Thanks you

