Check-List

Senior Project

Assessment of Student Outcomes of the BS in Computer Science of the

School of Computing and Information Sciences Florida International University

The School of Computing and Information Sciences evaluates the Senior Projects of its graduating seniors for the purpose of assessing the level of attainment of the Student Outcomes of the BS in Computer Science program.

To assist the evaluators, the project team is asked to identify aspects of the project related to the various Student Outcomes. For each Student Outcome, a checklist of 4 typical project features related to the outcome is provided. There is no requirement or expectation that any particular feature must be present in your particular project. Nor is the checklist exhaustive. Please add to the lists any additional features of your project that relate to any of the Student Outcomes.

For each checklist item represented in your project, please document where that item is evidenced in your project by noting the **deliverable** (Feasibility Study, Requirements Specification, Design Document or Final Document) and section or page number.

Your responses to this survey will be used solely for the purpose of assessing the Student Outcomes of the BS in Computer Science program of the School of Computing and Information Sciences at FIU. This survey is expressly NOT for assessment of student performance in the SCIS Senior Project course for assignment of letter grade, nor for assessment of the instructor(s).

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Project Title Math Instant Messenger for	or Visually Impaired People
Semester & Year Fall 2010	,
Moderator (Faculty / Industry Sponsor):	Mc-Dermott-Wells/Dr. Peter Clark
Team Members: Arian Acosta	Carlos Bustamante
Christopher Casanova	Raul Fuentes
Barbara Gonzalez	

* All sections refer to the Final Deliverable unless noted otherwise

including mathematics, discrete structures, logic and the theory of algorithms		
	Project utilizes some knowledge of mathematics Use of Math Type Editor in project, *	
	Project utilizes some statistical techniques 3.3 Cost of Project	
	Project utilizes some elements of computational or mathematical logic 10.5 Appendix E [mathematical logic in control structures of co	de)
	Project utilizes some aspects of theoretical computer science (e.g. automata) 6.3 Dynamic model (5tate machine diagram)	
Other	At Project is focused on integrating a Math Equation Editor which requires knowledge of Math	
	nt Outcome (b): Demonstrate proficiency in various areas of Computer Science including tructures and algorithms, concepts of programming languages and computer systems	
	Project demonstrates knowledge of data structures 10.5 Appendix E (code uses List data structure)	
	Project demonstrates knowledge of algorithm development 6.3 Dynamic Model (Design of algorithm)	
_/	Project demonstrates knowledge of programming language concepts 10.5 Appendix E (recursion), 6.3 Dynamic Model (Algorithm from to Math use nate	Nemeth
	Project demonstrates knowledge of computer systems 3.1.2 Hardware and Saffware Resources	ara (scaa)
Other		

	nt Outcome (c): Demonstrate proficiency in problem solving and application of software	
<u>engine</u>	<u>eering techniques</u>	
	Project objectives are clearly specified and analyzed	/
	Course syllabus https://online.cis.tiu.edu/portal/mod/resource	elview. php? 5-78
/		
	Project evidences consideration of design alternatives	
	2.2 Description of alternative solutions considered	
		•
	Project utilizes sound implementation techniques	
_	There is evidence that the implementation was tested and/or evaluated	
	7 System Validation	
Other		
Stude	ent Outcome (d): Demonstrate mastery of at least one modern programming language	
-	proficiency in at least one other	
. /		
	Project was implemented using a modern programming language	
	C#, Javascript, XML, 10.5 Appendix E	
	Project code is modular and/or rousable and is documented	•
	Project code is modular and/or reusable and is documented 10.5 Appendix 6.4 (ode Specification	
	this ripperoix is just specification	
/	Project code is reasonably efficient rather than "brute force"	
	10.5 Appendix E	
		•
/	Project code is understandable and meets specifications	
	6.4 Code Specification	
		•
Other		

Studer	nt Outcome (e): Demonstrate understanding of the social and ethical concerns of the
practio	cing computer scientist
	Project documents sources and references User Guide: 9 References, Deliverable 4: After Cover page
_	Project identifies and addresses any relevant ethical issues Same as above
_	Project identifies and addresses any relevant social issues Same as a bove
	Project documents anticipated impact on users/clients Same as above, User Guide: 3 Introduction
Other	
Studer	nt Outcome (f): Demonstrate the ability to work cooperatively in teams Project evidences equitable participation by team members
	Appendix H Diary of meetings
_	Project team negotiated consensus and/or compromise Same as above
	Project team set out and followed a schedule for timely completion Same as above
_/	Project team activity is documented Same as above
Other	

Progr	am Outcome (g): Demonstrate effective communication skills
	Project presentations captured the essential features of the project Final Presentation power point
	Project artifacts communicate and/or project the project essentials $MIMVIF, plsc + i e$
_	Project reports are well organized and written
	Project presenters are able to communicate their ideas to a non-CS audience Final Presentation pswerpoint
Other	
for the	am Outcome (j): Have experience with contemporary environments and tools necessary practice of computing Project utilizes contemporary design tools
	Use of Visual Studio 2010, Star UML, Messenger Plus Project implementation utilized a modern IDE Visual Studio 2010
	Project utilized validation/testing tools
	Project was demonstrated using appropriate presentation aids Micro Soft Power poin + 2007
Other	

Your further observations about of the BS in CS Student Outcomes **evidenced in this project** would be appreciated.