BS-CS Program Outcomes Check-List (Fall 2011)

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.

Please complete once per project/team. Your responses to this survey will be used solely to assist evaluators in locating assessment indicators in the documentation of your project.

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).

Project Title V Moodle
Semester & Year <u>Fall 2011</u>
Advisor (Faculty / Industry Sponsor):
Team: Jose Weinander
Junior Bagile
Diana Serpa
Dajen Ruig
Disself Pinaile
Contact (email / phone): druizo16@fiv.edv (305) 298-6574

Student Outcome (a): Demonstrate proficiency in the foundation areas of Computer Science including mathematics, discrete structures, logic and the theory of algorithms

Discrete Mathematics

>	Does the project incorporate elements of E.g. Theorem, Mathematical Induction, P		
	Mathematical Reasoning / Proof	Deliverable	Page#
>	Does the project utilize other elements o E.g. Set Theory, Boolean Algebras, Comb		
	Discrete Math	Deliverable	Page#
Pro	obability & Statistics		
>	Does the project utilize some statistical p E.g. Mean & Standard Deviation, Stem Pl		
	Data Summary	Deliverable	Page#
>	Does the project utilize some statistical r E.g. Probability Distributions, Confidence		
	Statistical Measure	 Deliverable	Page#
<u>Th</u>	eory of Algorithms		
>	Does the project utilize finite state diagra	ams to model system behav	ior?
		4	
	Finite State Machine	Deliverable	Page#
>	Does the project utilize some aspect(s) on E.g. Automata, Turing Machines, Recursi		
	Automata, etc.	 Deliverable	Page#

Student Outcome (b): Demonstrate proficiency in various areas of Computer Science including data structures and algorithms, concepts of programming languages and computer systems.

Data Structures & Algorithms

	Does the project utilize an advanced dat queue?	a structure, e.g. search tree,	hash table, priority
	Maps Data Structure	Deliverable	Page#
	Does the project utilize some graph algo	rithm, e.g. shortest path, mir	nimum spanning tree?
	Algorithm	Deliverable	Page#
>	Does the project implement some other	(non-trivial) algorithm?	
	Algorithm	Deliverable	Page#
>	Does the project analyze run-time comp	elexity of any algorithms?	
	Cicale VM on EC2		
	Algorithm	Deliverable	Page#
<u>Co</u>	ncepts of Programming Languages		
>	Does the project utilize knowledge of progress. Context-Free Grammars, Parse		parsing?
	Syntax/Parsing	 Deliverable	Page#
>	Does the project utilize knowledge of progressing E.g. Natural Semantics, Interpreters	rogramming language seman , Expressions, L- and R- Value	tics?
	Semantics	 Deliverable	Page#
>	Does the project utilize knowledge of d	esign issues such as scoping r	ules, type checking?
	Design Issues	Deliverable	Page#

Computer Systems (Operating Systems)

>	Does the project utilize knowledge of me	mory management technique	s?
	Memory Management	Deliverable	Page#
>	Does the project utilize knowledge of pro	ocess synchronization?	
	Process Synchronization	Deliverable	Page#
>	Does the project utilize knowledge of dis	tributed processing?	
	Distributed Processing	Deliverable	Page#
>	Does the project utilize knowledge of de	vice management?	
	Device Management	Deliverable	Page#
Col	mputer Systems (Database Systems)		
>	Does the project utilize knowledge of inf	ormation storage and/or retri	eval?
	Information Management	Deliverable	Page#
>	Does the project utilize conceptual or re	lational database schema?	
	Schema	Deliverable	Page#
>	Does the project utilize a database query	y language, e.g. SQL?	
	SQL	dsfacade	
	Query Language	Deliverable	Page#

Student Outcome (e): Demonstrate understanding of the social and ethical concerns of the practicing computer scientist

> Where does the	oroject document <u>licens</u>	e/copyright, sources/referer	nces?
Final	2		
Deliverable	Page#	Deliverable	Page#
➤ Where does the	project identify and add	ress any relevant <u>social issue</u>	<u>es</u> ?
Deliverable	Page#	Deliverable	Page#
Where does the	project identify and add	ress any relevant <u>ethical iss</u> u	<u>ues</u> ?
Deliverable	Page#	Deliverable	Page#
Where does the	project identify and add	lress any relevant <u>legal issue</u>	<u>.s</u> ?
Deliverable	Page#	Deliverable	Page#
Where does the	project identify and add	dress any relevant <u>privacy iss</u>	sues?
Deliverable	Page#	Deliverable	Page#
Where does the	project document any a	anticipated <u>impact on users/</u>	<u>'clients</u> ?
Deliverable	Page#	Deliverable	Page#
➤ Where does the	e project document any	anticipated <u>technology impa</u>	ct issues?
 Deliverable	Page#	Deliverable	Page#

<u>Program Outcome</u> (h): Have experience with contemporary environments and tools necessary for the practice of computing

mpleted by the team. L	EVACET AT AGVENCED 4" LOMBREDT 1"	miermeulate, 1. No
	Expert, 4: Advanced, 3: Competent, 2: (MS PowerPoint, Adobe Acrobat, etc.)	
Presentation Aids		Competency
<u>Domain</u>	Software / Tool	
Presentation	Pouri Biat, UKI Beradigm.	5
Demonstration	Drowsel)	
Document Preparation	(MS Word, MS Visio, LaTeX, UMLet, e	
Domain	Software / Tool	Competency
Document Editing	Word, store.	5
Diagramming	Vicio, UML Revadigm	<u> </u>
Programming Language	s & IDE's (Java, C, C++, C#, SQL, PhP)	
Domain Domain	Software / Tool	Competency
Programming Language	PAP, C, Jamsenpt, HTML	5
IDE or OS	Linux, Windows, Netheans	5
	(MS Project, AtTask, version conti	rol tools etc.)
Project Management	TIVIS PROJECT, ACTOSK, VELSION CONG	
		Competency
<u>Domain</u> Project Management	Software / Tool MicroSoft Project	
Domain Project Management Modeling	Software / Tool MicroSoft Project (StarUML, Rational Rose, etc.)	Competency S
Domain Project Management Modeling Domain	Software / Tool Consolid Project (StarUML, Rational Rose, etc.) Software / Tool	Competency Competency
Domain Project Management Modeling	Software / Tool MicroSoft Project (StarUML, Rational Rose, etc.)	Competency S
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Domain Project Management Modeling Domain UML Modeling Database Management	Software / Tool MicroSoft Project (StarUML, Rational Rose, etc.) Software / Tool UML_Visual Beaugns	Competency Competency 5
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