CSCC40 (Fall 2010)

Instructor: Wael Aboulsaadat

Assignment 3 Marking

Marker:_____ Team:_____

Total Marks: _____/100

Marks for this assignment depend on the factors and criteria listed below.

A: System Architecture (20%).

Description and justification of the hardware, networking and software platform selected for the design; also, description and justification of the software architecture adopted.

marks: _____/20

• Specification of computer network (existing or new, if any)

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Specification of the hardware (existing or new)

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Specification of the software platform (operating system and other commercial software you will be using for your system)

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Specification of general software architecture; e.g., client-server, MVC, layered, etc

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Identification of sub-systems and major components

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Justification that the overall design meets all requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

B: Program Design (21%).

A description of the detailed design of the application component of the system, given in terms of class, sequence, and state diagrams.

marks: _____/21

B1. Class Diagrams (7%)

marks: _____/7

• Description of class diagrams, including a data dictionary.

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Quality of the diagrams

( ) Little understanding of class diagrams.

( ) Some understanding, but there are flaws or omissions.

( ) Reasonable diagrams, but not enough to capture the design of the application and/or there is missing information from some diagrams, e.g., attributes, operations, multiplicities

( ) Good and complete diagrams, cover well the design

( ) Excellent work

• Justification that the design meets relevant requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

B2. Sequence Diagrams (7%)

marks: _____/7

• (Informal) Description of sequence diagrams.

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Quality of the diagrams

( ) Little understanding of sequence diagrams.

( ) Some understanding, but there are flaws or omissions.

( ) Reasonable diagrams, but not enough to capture the design of the application and/or there is missing information from some diagrams, e.g., conditional branching or terminations

( ) Good and complete diagrams, cover well the design

( ) Excellent work

• Justification that the design meets relevant requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

B3. State Diagrams (7%)

marks: _____/7

• (Informal) Description of state diagrams.

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Quality of the diagrams

( ) Little understanding of state diagrams.

( ) Some understanding, but there are flaws or omissions.

( ) Reasonable diagrams, but not enough to capture the design of the application and/or there is missing information from some diagrams, e.g., events, conditions and actions for various transitions

( ) Good and complete diagrams, cover well the design

( ) Excellent work

• Justification that the design meets relevant requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

C. Database Diagrams (20%)

marks: _____/20

• Class and ER diagrams describing all data to be stored in the database, along with identifiers and other constraints

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Workload data (expected number of instances for different classes, frequency of most important operations)

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Restructuring of the ER diagram

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Generation of the relational schema

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Normalization of the schema

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Justification that the design meets relevant requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

D. User Interface Design (20%).

Covers the design of all user interfaces to be supported by your system.

marks: _____/20

• Clear description of the different user groups

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• State diagrams describing the dialogues supported by the interface

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Mockups of windows

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Website design (if relevant)

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Input/Output design

( ) worst in my pile ( ) somewhere in the middle ( ) top

• Justification that the interface design meets relevant requirements

( ) worst in my pile ( ) somewhere in the middle ( ) top

E. Supporting Documentation (10%).

Supporting documentation for the selections you made for hardware, software and networking (eg, prices, configurations, vendors considered,…), meetings with your customer (if any), meeting among team members, supporting evidence for some of your design decisions,…

marks: _____/10

F. Presentation (10%)

The style of your presentation, including language, grammar, clarity, organization of appendices, etc.

marks: _____/10

F1. Language: Grammar, spelling,…

( ) worst in my pile ( ) somewhere in the middle ( ) top

F2. Style and structure: E.g., table of contents, proper title page, page numbers, introduction, conclusions, etc.)

( ) worst in my pile ( ) somewhere in the middle ( ) top