MQ- Dr. Mahboob Gaosan

University of Rajshahi Department of Computer Science and Engineering

B. Sc. Engineering Part III Even Semester Examination 2020 Course: CSE3212 (Software Engineering Lab)

Marks = 17.5 (12'5+5'0) +5'0 +2'5 = 25

The CSE Company would like to build an online marketplace platform web application. The application

- 1. Both vendors and customers should be able to register with the marketplace.
- 2. The vendors will be able to add, remove, and update their products and products features
- 3. A dashboard will be provided to the vendors
- 4. Easy Custom Search and Navigation tools will be provided to the customers
- 5. Customers will be capable to compare products and products' features
- 6. Easy booking/ordering process will be provided to the customers
- 7. Multiple payment gateway will be provided to the customers
- 8. Customers will be able to rate or review the products and vendors
- 9. Maintain privacy and security for both vendors and customers
- 10. The CSE Company is responsible for receiving order payment from the customers, collecting ordered product from the vendor, shipping order to the customers, and distributing payment to
- 11. The CSE Company is also responsible for the reconciliation of unsuccessful transactions. e.g. empty product stock, damage product, delivery delay, etc.

Define different modules, draw UML diagram, and construct E-R diagram for this above web application.

A2 - Dr. Asit Zaman AMR-Mr. Md. Oman Fanuge

Theory SAS-Dr. A.R. Shoyeb Ahmed Siddique

39-mn. Subnata Pramanik MSI-Dn. md. Saiful Islam University of Rajshahi

Department of Computer Science and Engineering

B.Sc. Engineering Part III, Even Semester Examination 2020

Course Code: CSE-3222 Course Title: Computer Graphics Lab

Time: 03 Hours Full Marks: 25 (17.5(6+6+5.50) + 5.00 + 2.50)

Write a program for two dimensional translation, rotation and scaling.

06.00

2. Write a program to establish the properties of Bezier curve.

06.00



MMA-Mn. md. monshedul Anefin

University of Rajshahi Affiliated College

Department of Computer Science and Engineering B.Sc. (Engg.) Part-3 Even Semester Practical Examination-2020 Course: CSE-3232 (Microprocessor and Assembly Language Lab)

- 1. Write an assembly language program that will read a string and then convert the lowercase letters of the string into uppercase and vice-versa. The other non-alphabetic characters will remain be unchanged.
- 2. Write an assembly language program that will read two integer numbers (here the numbers will be less than 10) and then perform the following operations of the numbers:
 - (i) Addition (ii) Subtraction

Here the output value will also be less than 10.

KJR-Mn. Kazi Jahidur Rahaman MAS - MDR. Md. Anisuzzaman Siddique MTI - Mr. Md. Tohidul Islam

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Lab Exam [Operating Systems & System Programming, CSE3242] Marks: 17.5 [Viva: 5, Experiments: 12.5 = 1 + 5 + 1.5 + 5]

- 1. Create a process, named 'ProcessX', which takes from the terminal [1]
 - 'n' number of strings and create 'n' named pipes.
 - two values for two integer variables 'a' and 'b'.
- 2. ProcessX creates one child which has two sub threads (Thread1 and Thread2) for doing addition and subtraction on 'a' and 'b'. [5]
 - The main thread of the child process initializes a variable result = 0.
 - Thread1 does result = result + (a + b) and Thread2 does result = result + (a b).
 - Child process waits for its sub threads to be finished.
 - ProcessX waits for its child process to be finished.
 - ProcessX's child's main thread prints values of result, a and b before creating its threads and before final termination.
 - ProcessX prints values of result, a and b before creating its child and before final
 - Thread1 and Thread2 print values of result before and after their specific operation.
- 3. Take necessary steps to avoid inconsistency in values of result displayed by ProcessX, its child and child's threads. [1.5]
- 4. Create two process named 'ProcessA' and 'ProcessB' which communicates via a named pipe among the 'n' pipes created by 'ProcessX'. [5]
 - Both 'ProcessA' and 'ProcessB' take pipe names via terminals.
 - Both 'ProcessA' and 'ProcessB' will display its own and opposite process' PID, logical CPU info, CPU_Affinity and scheduling algorithm's information. They will use
 - ProcessB can send messages to ProcessA multiple times while ProcessA can send messages to ProcessB for two times: (a) first time its PID, logical CPU info, CPU_Affinity and scheduling algorithm's information, and (2) second time 'Thank
 - Both 'ProcessA' and 'ProcessB' will terminate when they receive 'Thank You'
 - For 'ProcessB', the user will type 'Thank You' message.
 - 'ProcessA' will send a static 'Thank You' message to 'ProcessB' after getting 'Thank

UC-Mn. Utpalananda Chowdhury

University of Rajshahi

Dept. of Computer Science and Engineering

B.Sc. Engineering Part-3 (Even) Examination-2020

ICE-3262 [Communication Engineering Lab]

Time: 03 Hours Full Marks: 25 (17.5(5+5+5+2.50) + 5.00 + 2.50)

- 1. Implement the modulation and demodulation for the polar return to zero line coding technique where the signal level goes to zero from positive level if the next bit is 1 and the signal level goes to zero from negative level if the next bit is 0.
- Implement the encoding and decoding using B8ZS scrambling technique.
 Implement the modulation for digital to analog conversion where bit 0 is represented
- by a signal of 5Hz and bit 1 is represented by a signal of 10 Hz.

MRJ - Dn. Mt. Rokanujjaman SKC - MR. Sanjoy Kuman Chaknabanty.