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Informatics Institute of Technology

Department of Computing

Software Development II Coursework Report

Module : 4COSC010C: Software Development II

Module Leader :

Date of submission :

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# Test Case

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| --- | --- | --- | --- | --- |
|  | **Test Case** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Printing the main menu | Print the main menu after started the program | Print the main menu after started the program | Pass |
| 2 | Ask the code from the user | Asking the respective code of the option to execute. | Asking the respective code of the option to execute. | Pass |
| 3 | (Booths Initialised correctly)  After program starts, 100 or VVB | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
| 4 | (Booths Initialised correctly)  After program starts, 100 or vbb | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
| 5 | (Booths Initialised correctly)  After program starts, 100 or VVB, with different cases of letters | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
| 6 | After program start input 101 or VEB or VEB with different cases  (View all empty booths) | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
| 7 | After program start 102 or APB or APB with different cases | Display all the empty booths and ask for a booth number to insert a patient | Display all the empty booths and ask for a booth number to insert a patient | Pass |
| 8 | After program start, Remove patient from a booth.  103 or RPB | Output  Nothing to remove | Output:  Booths that already occupied :  None  Nothing to remove | Pass |
| 9 | After program start, View patients sorted in alphabetical order.  104 or VPS | Output  Nothing to sort | Output  First add patients to booth, Then sort it | Pass |
| 10 | After program start, Store program data into file  105 or SPD | Output  Nothing to store | Output  Nothing to store, please enter patients to booths | Pass |
| 11 | After program start, Load program data from file  106 or LPD | Output  Nothing to load | Output  Store data before loading | Pass |
| 12 | After program start, view remaining vaccination | 150 | Number of remaining vaccines: 150 | Pass |
| 13 | After program start, Add vaccinations to the stock  108 or AVS | Cannot add because stock is full | Stock of vaccine is already full | Pass |
| 14 | After program start, load Previous program data | Should display the data that store at last in the previous run of the program | Load the data that store at last in the previous run. | Pass |
| 15 | (Add Patient “Scott” to Booth 5)  102 or APB enter “Scott” | 100 or VVB  Displays “scott” for booth 5 | Displays “Scott” for booth 5  (Display as “Booth 5 occupied by scott”) | Pass |
| 16 | After adding Scott to booth number 5 then view all empty booth  101 or VEB | Display from booth number 0 to booth number 4 as empty and not displaying the booth number 5 | Booth 0 is empty  Booth 1 is empty  Booth 2 is empty  Booth 3 is empty  Booth 4 is empty | Pass |
| 17 | After adding Scott to booth number 5 then remove patient from booth  103 or RPB | Ask the booth number to remove the patient in it and remove the patient from it. | Display the booth numbers that already occupied and ask the booth number to remove the respective patient in the booth. | Pass |
| 18 | After removing Scott, then View all vaccination booths  100 or VVB | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
|  |  |  |  |  |
| 17 | After removing Scott, then View all empty booths  101 or VEB | Displays ‘empty’ for all booths | Displays ‘empty’ for all booths | Pass |
| 18 | Add john to booth number 0  Add smith to booth number 3  Add anne to booth number 4  Add mark to booth number 5  Add kyle to booth number 2  102 or APB | james should add to the booth number 0.  mark should add to the booth number 3  sarah should add to the booth number 4.  emma should add to the booth number 5.  john should add to the booth number 2 | james is added to the booth number 0  mark is added to the booth number 3  sarah is added to the booth number 4  emma is added to the booth number 5  john is added to the booth number 2 | Pass |
| 19 | After adding the above patients, view all vaccination booths  100 or VVB | Display:  Booth 0 is occupied by james  Booth 1 is empty  Booth 2 is occupied by john  Booth 3 is occupied by mark  Booth 4 is occupied by sarah  Booth 5 is occupied by emma | Display:  booth 0 occupied by james  Booth 1 is empty  booth 2 occupied by john  booth 3 occupied by mark  booth 4 occupied by sarah  booth 5 occupied by emma | Pass |
| 20 | After adding the above patients, view all empty booths  101 or VEB | Only booth 1 should empty | Display only:  Booth 1 is empty | Pass |
| 21 | After adding the above patients, view patient sorted in alphabetical order  104 or VPS | Display:  emma  james  john  mark  sarah | Display:  Patient names according to alphabetical order  emma  james  john  mark  sarah | Pass |
| 22 | After adding the above patients Store program data into file  105 or SPD | Store the program data to the file | Output  Data has been success fully stored to the current program data file  Data has been success fully stored to the previous program data file | Pass |
| 23 | After adding above patients, load program data from file  106 or LPD | Store before load | Store data before loading | Pass |
| 24 | After adding the above patients and storing the data to the file, Load the program data from the file  106 or LPD | james is in booth 0  john is in booth 2  mark is in booth 3  sarah is in booth 4  emma is in booth 5 | patient in booth 0: james  patient in booth 1: ~  patient in booth 2: john  patient in booth 3: mark  patient in booth 4: sarah  patient in booth 5: emma  Number of vaccines remaining 145 | Pass |
| 25 | After adding the above patients, View remaining vaccinations  107 or VRV | 145 | Number of remaining vaccines: 145 | Pass |
| 26 | After adding the above patients, Add Vaccinations to stock  108 or AVS | Should add vaccines to the stock without exceeding the stock limit | Number of vaccines going to add or enter (-1) to exit:  9  Overloading stock of vaccines  you can add only 5  Number of vaccines going to add or enter (-1) to exit:  5 | Pass |
| 27 | Exit the program  999 or EXT | Should terminate the program | Terminate the program | Pass |
|  |  |  |  |  |
| 28 | If the user input an invalid input other than 100 or VVB, 101 VEB, 102 or APB, 103 or RPB, 104 or VPS, 105 or SPD, 106 or LPD, 107 or VRV, 108 or AVS, 109 or LPP, 999 or EXT | Should print a warning message without terminating the project | Enter the respective code for your requirement:  365  Invalid option selected, 'Input out of range' | Pass |
| 29 | Adding a patient to a booth which already occupied | Should not replace or terminate | Booths that already empty :  Booth number : 1  Booth number : 2  Booth number : 3  Booth number : 4  Booth number : 5  Enter the booth number (0-5) or 6 to exit:  0  Already there is a patient!  Enter the booth number (0-5) or 6 to exit: | Pass |
| 30 | Insert a booth value other than 0,1,2,3,4,5,6 When adding patients | Display a warning message without terminating | Booths that already empty :  Booth number : 1  Booth number : 2  Booth number : 3  Booth number : 4  Booth number : 5  Enter the booth number (0-5) or 6 to exit:  9  Input booth number is out of range  Enter the booth number (0-5) or 6 to exit: |  |
| 31 | Removing a patient from an empty booth | Print an error message without terminating | Booths that already occupied :  Booth number : 0  Enter the booth number that the patient you want to remove (0-5) or 6 to exit:  2  Already booth 2 is empty!  Enter the booth number that the patient you want to remove (0-5) or 6 to exit: | Pass |
| 32 | Insert a booth value other than 0,1,2,3,4,5,6 When removing patients | Print an error message without terminating | Enter the booth number that the patient you want to remove (0-5) or 6 to exit:  9  Input booth number is out of range  Enter the booth number that the patient you want to remove (0-5) or 6 to exit: | Pass |
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| Task 1 array extended version (with choosing vaccine type and getting last name as well) | | | | |
| 33 | Enter code 102 after starting the program  102 or APB | Ask for vaccine type, patients first name and last name. | Booths that already empty :  Booth number : 0  Booth number : 1  Booth number : 2  Booth number : 3  Booth number : 4  Booth number : 5  Vaccine type:  0 | AstraZeneca  1 | Sinopharm  2 | Pfizer  Enter the respective code for the vaccine you prefer or enter 6 to exit:  0  Enter the first name of the patient:  Enter the Surname name of the patient: | Pass |
| 34 | After run the program patients to the booths,  AstraZeneca – james robert  Sinopharm – john michael  Pfizer – mark paul  102 or APB | james robert should added to a booth reserved to AstraZeneca (booth number 0 or 1)  john michael should added to aa booth reserved to Sinopharm (booth number 2 or 3)  mark paul should added to a booth reserved to Pfizer (booth number 4 or 5) | james robert is added to the booth number 0  john michael is added to the booth number 2  mark paul is added to the booth number 4 | Pass |
|  |  |  |  |  |
| 35 | After adding the above patients, view all vaccination booths  100 or VVB | james should in booth 0 or 1  john should in booth 2 or 3  mark should in booth 4 or 5  three other booths should empty | booth 0 occupied by james robert  Booth 1 is empty  booth 2 occupied by john michael  Booth 3 is empty  booth 4 occupied by mark paul  Booth 5 is empty | Pass |
| 36 | Add three more patients to booths  AstraZeneca – sarah emily  Sinopharm – emma alice  Pfizer – diana rose  102 or APB | These three patients should added to the booths that reserved to the relevant vaccines but should not replace the above stored patients | sarah emily is added to the booth number 1  emma alice is added to the booth number 3  diana rose is added to the booth number 5 | Pass |
| 37 | After adding all the patients to booths, View all vaccination booths  100 or VVB | Should display all the booths without empty. | booth 0 occupied by james robert  booth 1 occupied by sarah emily  booth 2 occupied by john michael  booth 3 occupied by emma alice  booth 4 occupied by mark paul  booth 5 occupied by diana rose | Pass |
|  |  |  |  |  |
| Task 2 class extend version (with choosing vaccine type, getting first and last names, age, living city, Id number) | | | | |
| 38 | Enter the code 102 or APB after running the program | Ask vaccine type, first and the last name, age , city id number | Booths that already empty :  Booth number : 0  Booth number : 1  Booth number : 2  Booth number : 3  Booth number : 4  Booth number : 5  Vaccine type:  0 | AstraZeneca  1 | Sinopharm  2 | Pfizer  Enter the respective code for the vaccine you prefer or enter 6 to exit:  Enter the first name of the patient:  Enter the Surname name of the patient:  Enter patients age  Enter the current living city of the patient:  Enter the patient's NIC/PASSPORT number (Only the integers) | Pass |
| 39 | Add the patient to the relevant booth,  Vaccination type -AstraZeneca  Name – james robert  age-32 years  city– from London  Id number- 1055  102 or APB | James Robert should add to a booth number that reserved to AstraZeneca (booth number 0 or 1)  Should also get age, city, id number | Vaccine type:  0 | AstraZeneca  1 | Sinopharm  2 | Pfizer  Enter the respective code for the vaccine you prefer or enter 6 to exit:  0  Enter the first name of the patient:  james  Enter the Surname name of the patient:  robert  Enter patients age  32  Enter the current living city of the patient:  london  Enter the patient's NIC/PASSPORT number (Only the integers)  1055  Requirement is successfully completed  james robert is added to the booth number 1 | Pass |
| 40 | After adding the above patient, view all vaccination booths  100 or VVB | James Robert should added to the booth number 0 or 1.  And other booths should empty. | booth 0 occupied by james robert  Booth 1 is empty  Booth 2 is empty  Booth 3 is empty  Booth 4 is empty  Booth 5 is empty | Pass |
| 41 | Save the data to a file | Should save the files | Data has been success fully stored to the current program data file | Pass |
| 42 | Load the file | Vaccination type -AstraZeneca  Name – james robert  age-32  city– London  Id number- 1055 | patient in booth (First name)0: james  patient's Last name : robert  patient's age : 32  patient's Living city : london  patient's Id number : 1055  Vaccination Type : AstraZeneca | Pass |
|  |  |  |  |  |
| JAVAFX GUI (Task 5) | | | | |
| 43 | Start the program and press Let’s start button | Should moves to the form view | Goes to the form stage by closing the parent stage | Pass |
| 43 | After comes to the form stage press the button generate receipt | Should pass an error | Pass an alert and asking to fill the requirements | Pass |
| 45 | After filling all the requirement field press the button generate receipt | Print the receipt:  First name, Last name, age, gender, contact number, e-mail, id number, city, booth number, vaccine type, date and time | Pass all the values and print the receipt | Pass |
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# Discussion

<<discussion of how you chose your test cases to ensure that your tests cover all aspects of your program >>

# Code :

<<paste your code>>

<<do not use screen shots or images>>

<<END>>