Guidelines:

1. Term Project(A) will be done individually.
2. Working on project will be started from December 9, 2020.
3. Project will be evaluated based on rubrics described in the documents
4. List of accepted projects are given on last page.
5. Name of project file should be in this format: CS142F20Rxxx e.g. if registration number is 9 then file name should be CS142F20R009
6. Templates will be shared for all types of reports.
7. Any type of plagiarism will lead to F grade in project for both students.

Guidelines for Project Testing:

1. Students will perform testing of assigned projects. The following issues should be detected during testing:
   a) Any type of crashes in application
   b) Issues found in the UI
   c) Incorrect results of a funcion
   d) Any discrepancies in the features implemented
   e) Suggestion on the improvement of UI/UX
   f) Try multiple inputs to make it crash and report the scenarios which cause problem
2. After completion of testing, issues will be resolved and will be documented in the final report.

8. Deadlines will be as followed:

Milestone	Deadline
Project Title Submission	December 8, 2020
User Interface for Project	December 12, 2020
Project Report with interfaces	December 13, 2020
Implementation of all Functionalities without file handling	December 20, 2020
Implementation of all Functionalities with file handling	December 25, 2020
Project Testing	December 27, 2020
Resolution of issues	December 29, 2020
Final Project Report	January 2, 2021
Viva	From January 4, 2021

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Criteria	Weightage	2.5(Poor)	5(Average)	7.5(Good)	10(Excellent)
Basics of C++	10%	Student is familiar to basic concept of C++ language	Data types are used according to their use. Or if, if elseif, switch all statements are used alternatively	Data types are used according to their use And if, if elseif, switch all statements are used alternatively	All types of loops, conditional statements and data types are used based on scenario
1D Arrays	5%	Student has used 1-D arrays	Student can pass the array to functions	Student has returned 1D arrays from functions in addition to pass as parameter	No global constant is used for the size of 1D array. Size is passed and used as parameter to function
2D Arrays	5%	Student has used 2-D arrays	Student can pass 2D array to functions	Student has returned 2D arrays from functions in addition to pass as parameter	No global constant is used for the size of 2D array. Size is passed and used as parameter to function
String Manipulation	5%	String data type is used for the string manipulation	c-string is used for string manipulation	No built in function is used for string manipulation	String and C-String are used alternatively without use of built in funcitons
Data Validation	5%	Integer type data is validated	String type data is validated in addition to integer type data	Validation is performed in functions	Validation is performed in functions and handled every test case
File Handling	10%	File is used for writing data	File is used for reading data	Data in the files is in complex form, comma separated and student is able to read data	Data in the files is in complex form, comma separated and student is able to read data and all the tasks are performed in functions
Code Modularity	5%	All tasks are performed in main function	Some tasks are performed in main function and some in other functions	Main function is handling only function calls and I/O. All other tasks are in other functions	Functions are low coupled and highly cohesive
User Interface	10%	UI is one level menu based	UI is one level menu based and inputs style is user friendly	UI is two level menu with inputs user friendly	UI is more than two level menu with inputs user friendly
Code Style	5%	Rules for code style are not followed	Code is commented	Code is commented and variable have meaningful meaning	All coding rules are following according to Google style
Execution	10%	Project not running	Project running with major errors	Project running with minor errors	Project running without errors

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Viva Voce	15%	Student able to describe project	Student able to make changes in project	Student has the some command on implemented functionality details	Student has the complete command on implemented features
Code Length	15%	Code length is in lower 30% of projects	Code length is in top 70% of projects	Code length is in top 50% of projects	Code length is in top 20% of projects

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Registration No.	Project Title	Remarks
2020-CD-CS-2	Library Management System	
2020-CS-52	Meeting Scheduler	
2020-CS-53	General Store	
2020-CS-54	Banking Management System	
2020-CS-55	Hospital Management System	
2020-CS-57	Telephone Directory Management System	
2020-CS-58	Library Management System	
2020-CS-59	Water Supply System	
2020-CS-62	Bank Management System	
2020-CS-63	Project Management Contractor's System	
2020-CS-71	Music Store Management System	
2020-CS-76	Banking Record System.	
2020-CS-79	Doctor Management System	
2020-CS-80	Bank Management System	
2020-CS-83	Patient Record	
2020-CS-84	Super Market Billing System	
2020-CS-87	Employee Record System Of A Company	
2020-CS-89	Atm Management System	
2020-CS-91	Airline Ticket Reservation System	
2020-CS-92	Board Result Viewer	
2020-CS-95	Ticket Booking System	
2020-CS-97	Ticket Reservation System	
2020-CS-101	Gourmet System	
2020-CS-102	Bank Management System	
2020-CS-104	Hostel Management System	
2020-CS-106	Medicare +	
2020-CS-110	Hotel Management Program	
2020-CS-111	School Billing System	
2020-CS-113	Bus Reservation System	
2020-CS-114	Whole Sale Shop Keeper	
2020-CS-115	Hostel Management	
2020-CS-116	Bookshop Management System.	
2020-CS-118	Superstore Management	
2020-CS-119	Election Conducting System	
2020-CS-120	Bank Management System	
2020-CS-122	Inventory System	
2020-CS-124	School Management System	
2020-CS-125	Military Ammunition Record	
2020-CS-126	Health Care Console Based Application	
2020-CS-127	Management System For Pharmacy	

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2020-CS-128	Library Catalogue	
2020-CS-129	Shop Billing System	
2020-CS-130	Sightseer Seeker	
2020-CS-134	Contact Management System	
2020-CS-135	Automotive Showroom	
2020-CS-138	Library Management	
2020-CS-139	Library Management System	
2020-CS-141	Shop Inventory System	
2020-CS-142	Rent A Car Management System	
2020-CS-143	Student Attendance Management System	
2020-CS-144	Online Shopping And Warehouse Management System	
2020-CS-145	Library Management System	
2020-CS-146	Pandemic Control Unit Using Console Application	
2020-CS-147	PCB	
2020-CS-148	Hotel Management System	
2020-CS-150	Grocery Store Management System	
2020-CS-152	Fast Food Ordering Management	
2020-CS-153	Bank Management System	
2020-CS-156	Medical Store Management System	

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