



Course Code	:	MCSP-044
Course Title	:	Mini Project
Assignment Number	:	MCA (4)/P-044/Assignment/17-18
Assignment Marks	:	100
Maximum Marks	:	25 %
Last Date of Submission	:	15 th October, 2017 (for July, 2017 session)
	:	15 th April, 2018 (for January, 2018 session)

There are five questions in this assignment carrying 80 marks. Rest 20 marks are for viva-voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Program Guide for the format of presentation. Assumptions made if any, should be stated.

Background and Project Specifications:

A University library maintains the records of issue of books, magazines and journals to its members. The members of the library are the students and the staff of the university. Every member has to renew his/her membership at the beginning of a semester. Members can be issued a maximum of 10 books, 2 magazines and 1 journal. The books are issued for a period of 15 days; magazines for a period of 7 days and journals for a period of 3 days. If a member does not return any of the items after due date, s/he is charged a fine of Rs10 per day. The library maintains the stock of these items using a computerized system. The members are issued renewal notice at the end of each semester. The list of books, magazines and journals which are overdue is prepared every week. In case an item is overdue for more than two weeks then the membership of that person is put on hold. A person whose membership is put on hold twice in a semester is debarred from the library for a period of 6 months. The library also keeps track of the items that are in high demand. An item is in high demand if it is issued once in a month. More copies of the books are ordered in case it is in high demand. The books, magazines and journals that are not at all issued for two continuous years are put in an archival hold.

You may study the requirements of a library for more details. Perform the following tasks for the system given above:

- (a) Which Systems Development Life Cycle (SDLC) will you propose for the specification given above? (5 Marks)
 - (b) Justify your selection by evaluating suitability of at least two SDLCs. (5 Marks)
- (a) What would be major costs of the system? (2 Marks)
 - (b) What may be the financial benefits of installing such a system? (2 Marks)
 - (c) Perform a cost-benefit analysis for the proposed software and report its findings. (2 Marks)

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Navneet Verma



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