Bicol University
College of Science
Rizal Avenue, Legazpi City, Albay

Library Management System

Nestor Rafael N. Oscillada

Raul Barquilla Jr.

Jan Vincent B. Rada

Paul Marren F. Claveron

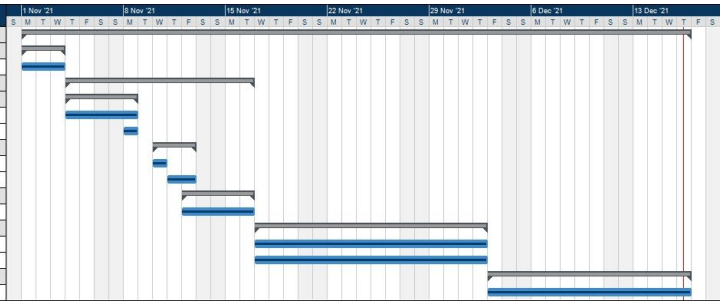
Marco Joaquin V. Barcela

BSCS 3B

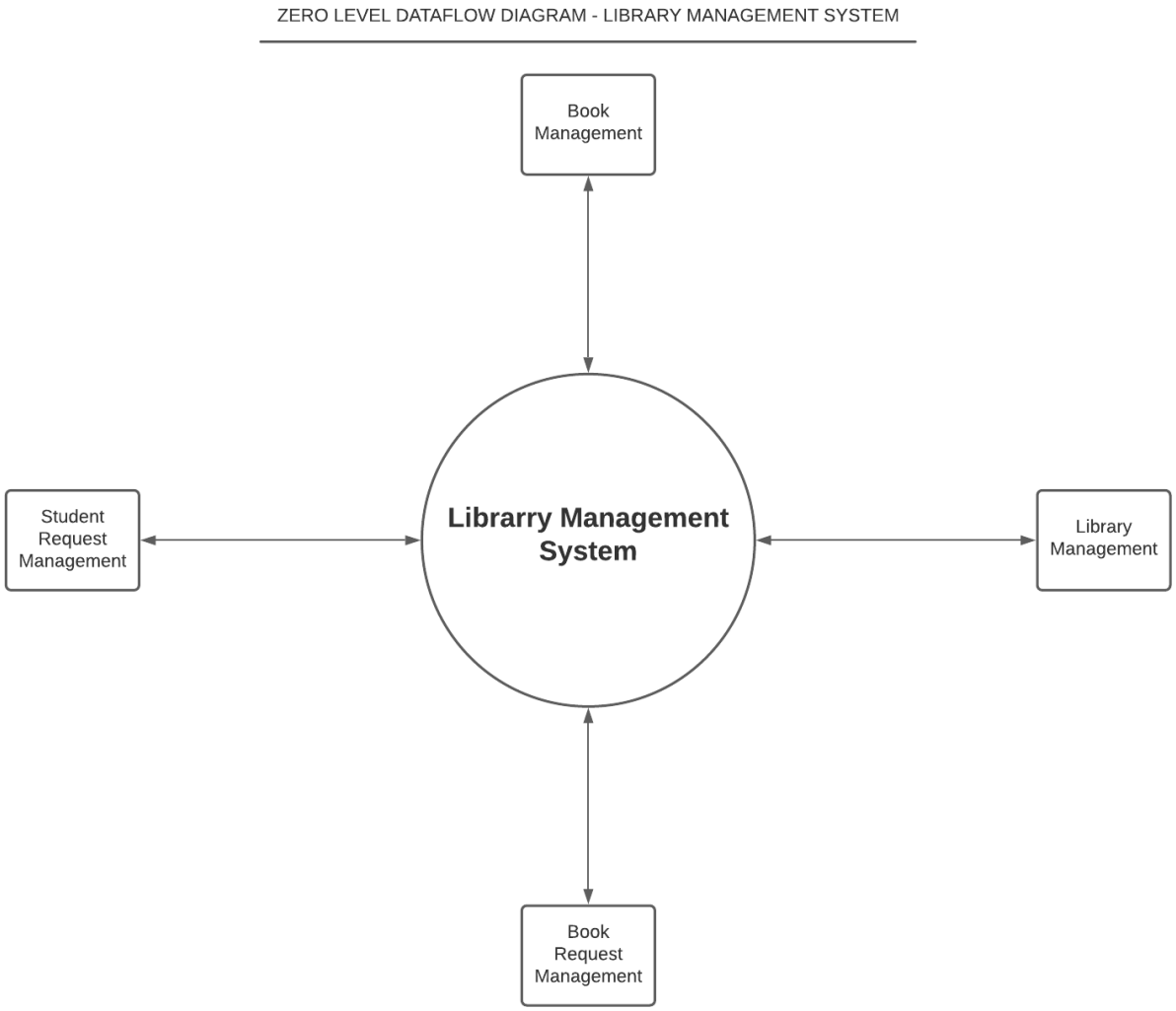
C. Analyzing System needs and Design

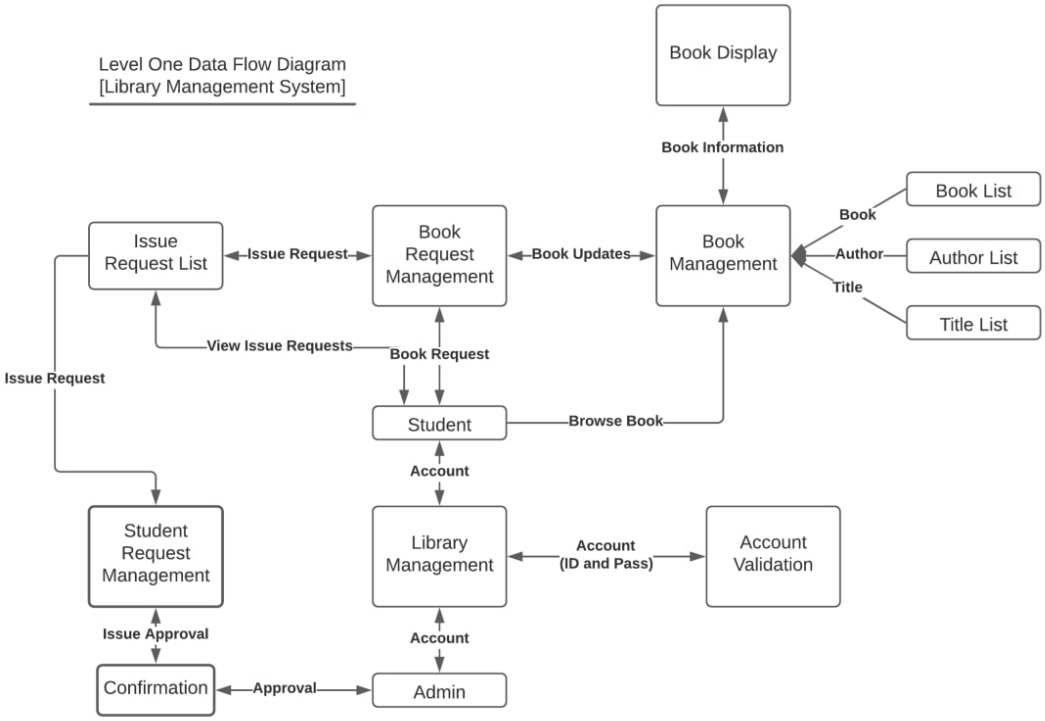
GANTT chart

	Tas...	Task Name	Duration	Start	End	Completion
1	✓	**Library Management System**	**34 days**	**11/1/2021**	**12/16/2021**	**100%**
2	✓	**Brainstorming**	**3 days**	**11/1/2021**	**11/3/2021**	**100%**
3	✓	Planning	3 days	11/1/2021	11/3/2021	100%
4	✓	**Conceptualization**	**9 days**	**11/4/2021**	**11/16/2021**	**100%**
5	✓	**Database Design**	**3 days**	**11/4/2021**	**11/8/2021**	**100%**
6	✓	Requirement Gathering	3 days	11/4/2021	11/8/2021	100%
7	✓	Conceptual Diagram (ERD)	1 day	11/8/2021	11/8/2021	100%
8	✓	**Frontend Design**	**3 days**	**11/10/2021**	**11/12/2021**	**100%**
9	✓	Design Prototype	1 day	11/10/2021	11/10/2021	100%
10	✓	Implementation Prototype	2 days	11/11/2021	11/12/2021	100%
11	✓	**Backend Design**	**3 days**	**11/12/2021**	**11/16/2021**	**100%**
12	✓	Prototyping	3 days	11/12/2021	11/16/2021	100%
13	✓	**Implementation**	**12 days**	**11/17/2021**	**12/2/2021**	**100%**
14	✓	Frontend Implementation	12 days	11/17/2021	12/2/2021	100%
15	✓	Backend Implementation	12 days	11/17/2021	12/2/2021	100%
16	✓	**Follow-up**	**10 days**	**12/3/2021**	**12/16/2021**	**100%**
17	✓	Optimization	10 days	12/3/2021	12/16/2021	100%

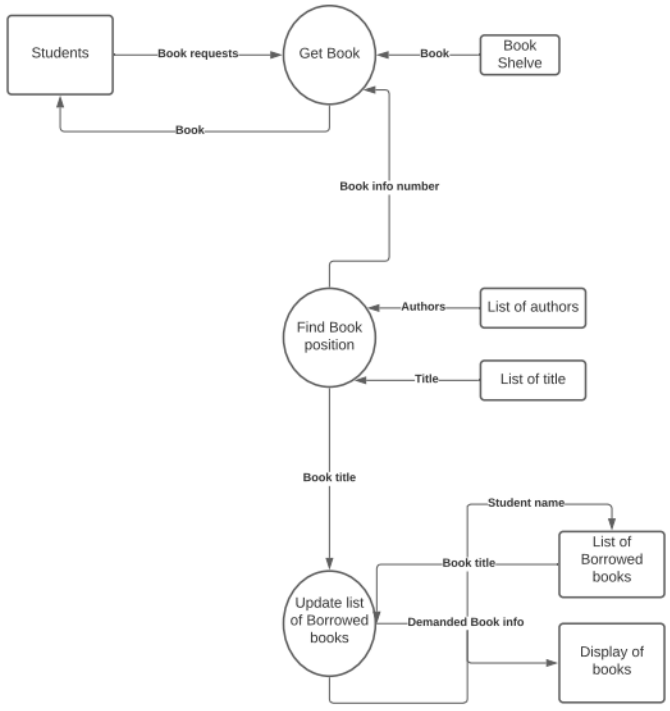
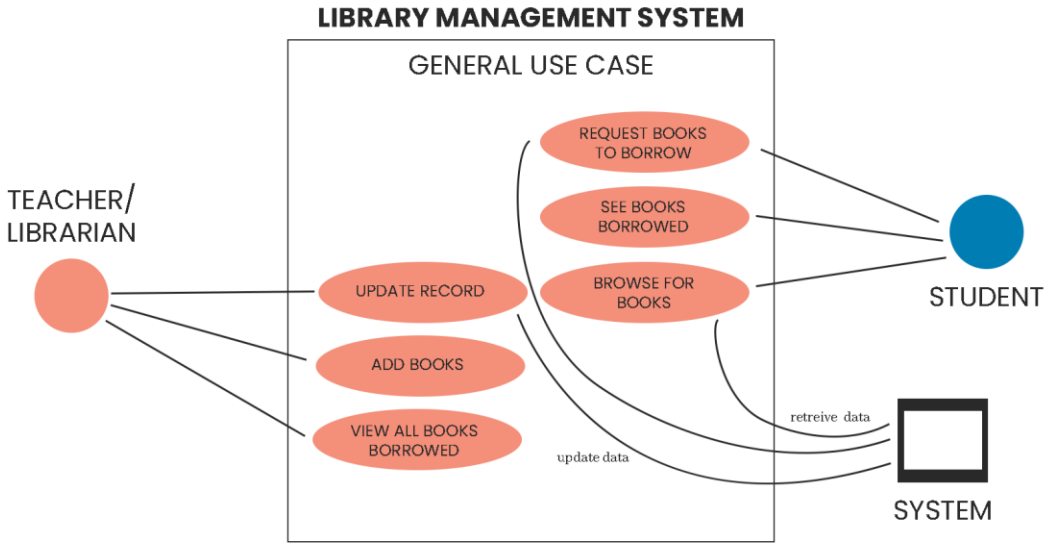


DFD Diagram





Level Two Data Flow Diagram – Library Management System



Use Case Diagram