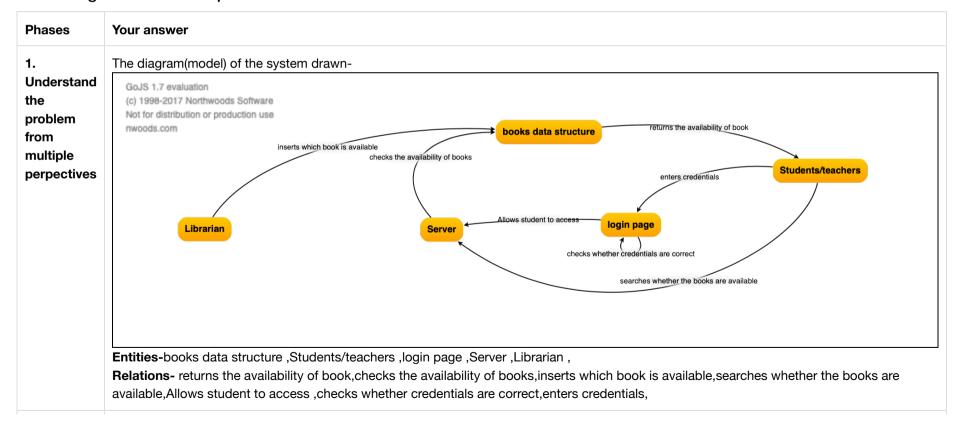
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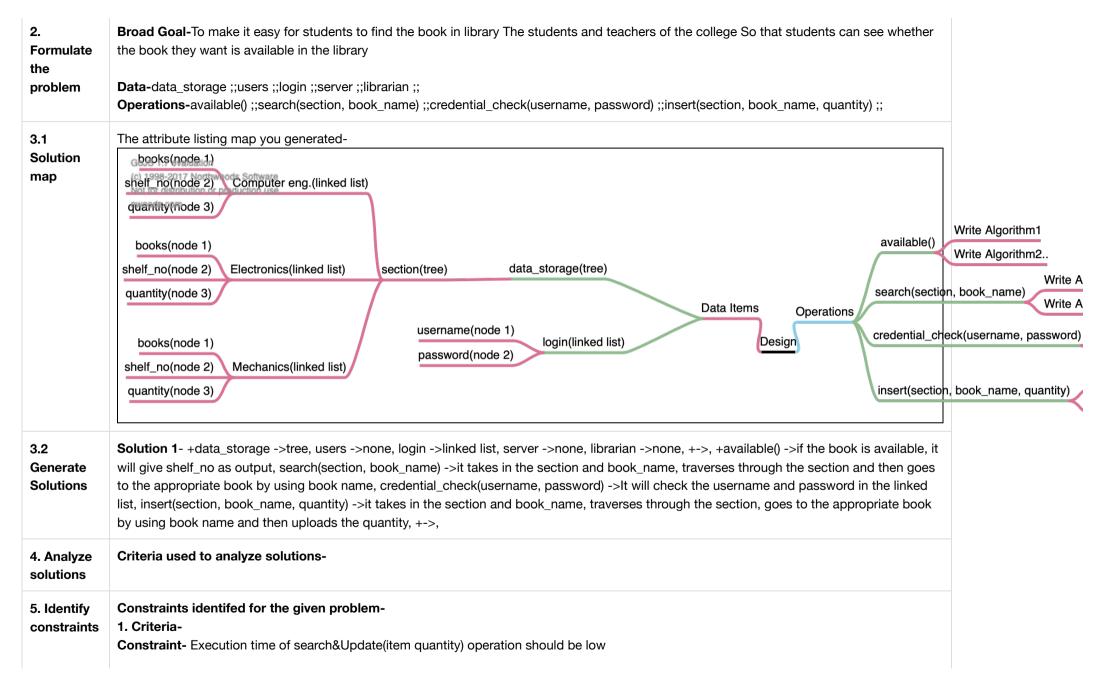
Problem

The college library maintains books of various departments like Computer engineering, Electronics engineering, etc. The library staff maintains records of all books, return and issue of books to students and teachers. It was becoming tedious for teachers and students to search for a book in library. The librarian decided to provide online service for students and teachers to search availability of the books. The system will search for the availability of the given book and display if the book is available/not available with its shelf number(location of the book). Your task is to design a software for the requirement stated by librarian, using appropriate data structure and algorithm.

Your design for the above problem-



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	Justify- to avoid wastage of timing of the user 2. Criteria-	
	Constraint- Execution time of login should be low	
	Justify- for a user friendly experience	
	3. Criteria-	
	Constraint- Searching should be less time consuming	
	Justify- the whole website is about searching	
6. Evaluate and select	The selected solution which is acheiving the goal/sub-goals and constraints is- Justified as-	

You have designed the solution by selecting appropriate data structure and algorithms for solving the above problem.

Now proceed to implement the solution using appropriate programming language.