

# A Solution to Search, Direct, and Locate a Book in a Book Fair

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**Abstract.** A book fair is a place where publishers and booksellers display their books and related materials in order to increase book sales. It provides opportunities for visitors to obtain international books that may not be available in the country and enhance their knowledge. Since there are many stalls in a book fair, it is convenient to have a system to search for available books in the fair, but these kinds of systems are currently not available in Sri Lanka. Due to that reason, visitors have to waste potential time and effort to search for books and stalls at the fair though the organizers provide a printed map to find locations.

Procedures for acquiring requirements and analyzing data, such as surveys and literature studies, clearly convey ideas about existing systems, methods, and techniques. According to the data gathering and data analyzing techniques the best solution is to develop a mobile application with visual indoor navigation. The paper describes mechanisms of searching for a book and giving directions to the visitors to navigate an exact location to enhance the performance of a book fair. The book search mechanism allows the visitors to check the availability of a particular book using the title of the book or the author's name. By providing a navigation facility, the visitors can get directions to the exact location that they want to go. The goal of this paper is to give a concept to create a Mobile Application that assists in finding a specific book and displays the way to the location where the book is located. The service provides the facility to search for the availability of books and map-based guidance to the selected location.

**Keywords:** *Search book, Indoor Navigation, Mobile Application*