Indoor Location-Based Services (SS2-14)

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Overview
A whole new experience while using the library! Have you ever felt frustrated while finding a book in the library? Or have you ever been lost while finding your friends inside? This application can solve your problems!

Aim
• To provide a convenient and efficient way of using the library for all users such as students, professors, guests etc.
• Functions including booking searching, localization, navigation inside the HKUST library

Methodology

- Collect Wi-Fi signal strength data to build the database
- Construct navigation paths according to the user input and the data collected, and choose the best path by Dijkstra's algorithm
- Provide book searching functions through web-based searching

Results
The application provides the users with an indoor localization service inside the HKUST library. It supports navigation to the place where your desired book stays. What the users need to do is just typing the book name or the call number!