

The library's application architecture which is to support the library information system is based on the conventional application architecture but also is particularly catering to the needs our clients demand. The elements of the library's information system model are divided into four layers. When users first open the website, they will first interact with the library's components and the presentation logic components. Users could easily approach the library website, and visit other pages and see the documents that we offer through the website. We have already integrated our website to any browsers in the market, so there should be no issues when people want to visit our website in either Internet Explorer, Chrome, etc. This layer only represents a small portion of the overall architecture that we are going to present here.

Our services are mostly programmed in the services layer. Users could check-in and check-out books and pay the fines and track their checked-out books through the service layer, which are provided through service interface. All areas related to business will be presented and offered on business layer. It will include business workflow, business components. The business workflow will occur often with the membership fee and fines. The business components will range from everything related to the everyday business to the daily maintenance generated by the library itself. The data behind the system will be stored in the data layer of the architecture. Without a huge amount of data input to support our application, it will be very hard to run the functions that we intend to create.