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Questions:

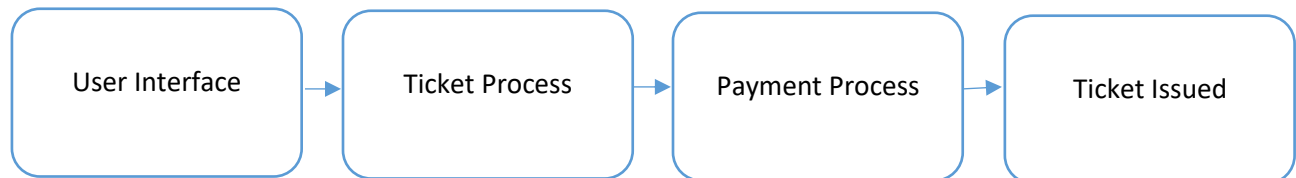
6.1 When describing a system, explain why you may have to start the design of the system architecture before the requirements specification is complete.

Architectural design is concerned with understanding how software should be organized and designing the overall structure of that system. It is a critical link between design and requirements engineering.

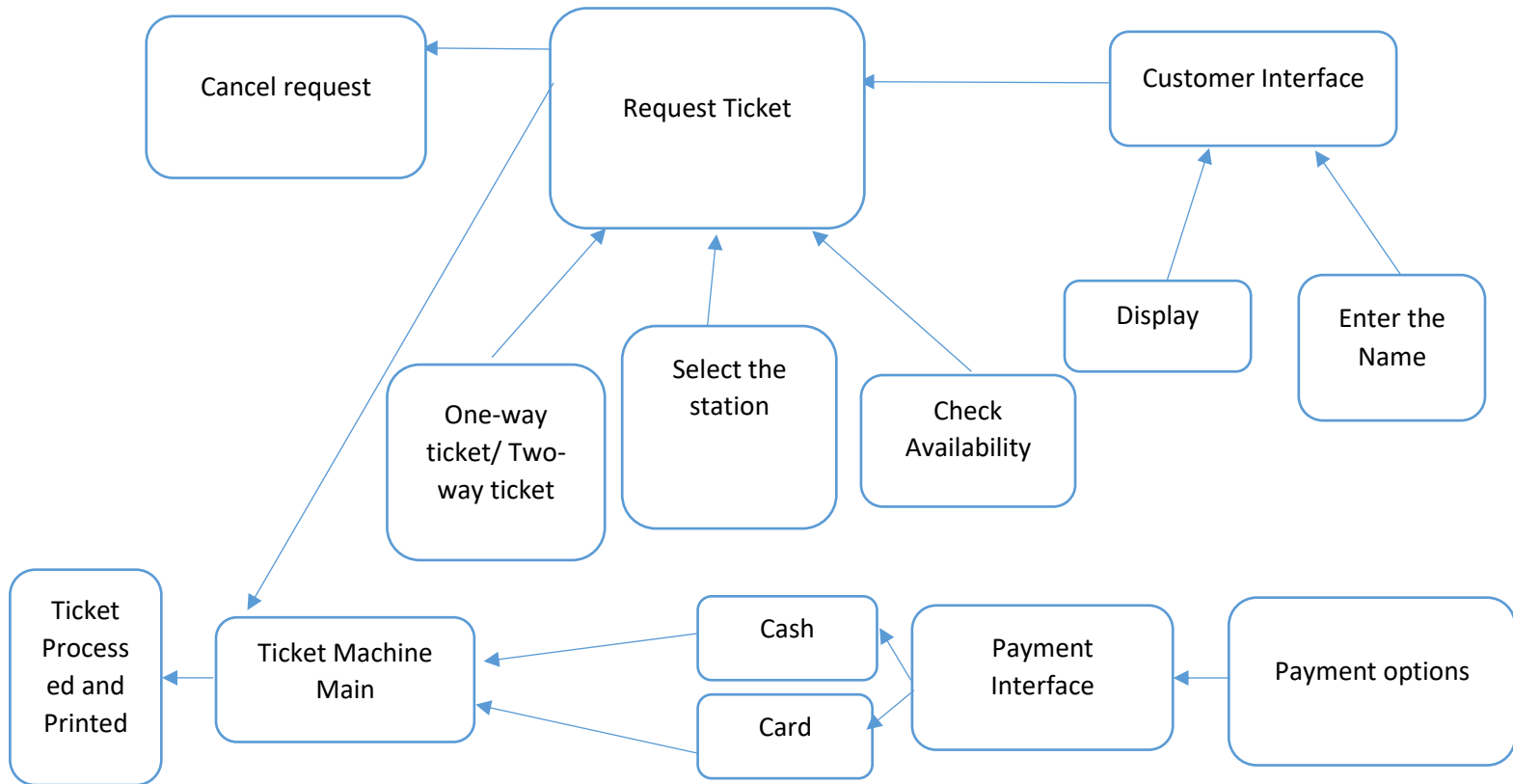
The output of the architectural design process is an architectural model that describes how the system is organized as a set of communicating components.

6.4 Draw diagrams showing a conceptual view and a process view of the architectures of the following systems: A ticket machine used by passengers at a railway station.

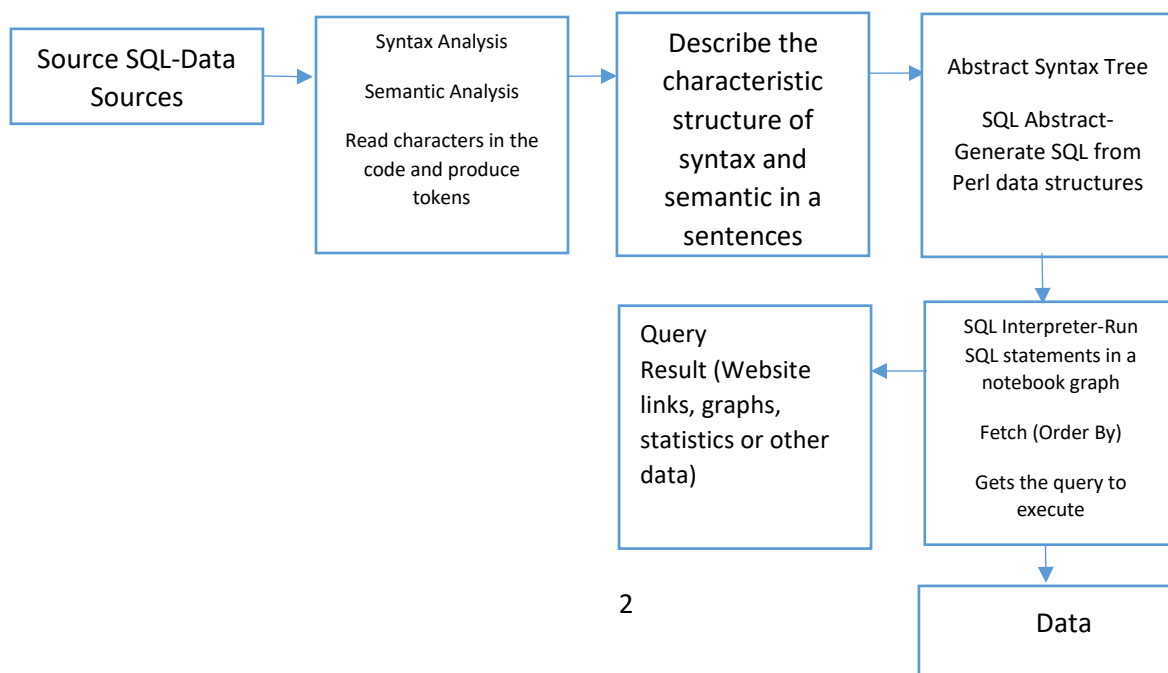
Conceptual view:



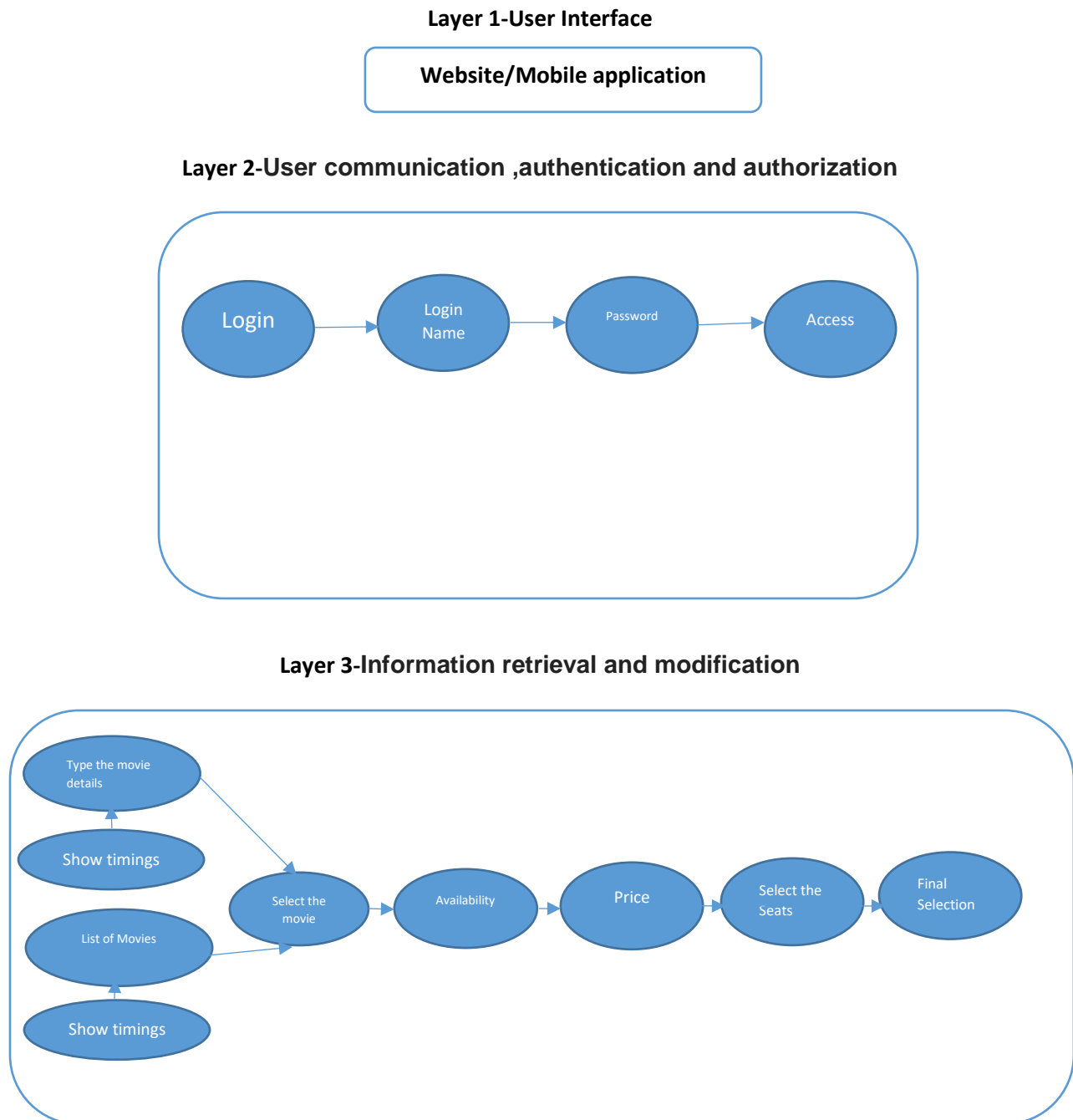
Process View:



6.8 Using the generic model of a language processing system presented here, design the architecture of a system that accepts natural language commands and translates these into database queries in a language such as SQL.



6.9 Using the basic model of an information system, as presented in Figure 6.18 (pg 187), suggest the components that might be part of an information system that allows users to view box office events, available tickets and prices, and to eventually buy tickets.



Layer 4-Transaction management and Database

