

Fig 1:Model-View-Controller view for the Trade Net Brokerage System

Mediator Pattern:

Mediator Pattern is a software architectural pattern in which an object is defined as a mediator which helps in interaction of other objects. This newly defined object decouple all the connections between different objects and avoid direct interactions between the components/objects. Any communication between the objects are carried out through the mediator instead of objects communicating with each other directly.



FIG 2: Mediator Pattern for the Trade Net Brokerage System

In Trade Net Brokerage System, we used mediator architectural pattern to reduce the complexity of the interaction between the components. Communication will happen through mediator. Employing the mediator-pattern the number of direct interactions between the components are reduced. In case of Trade Net Brokerage System, the Trade Execution server acts as a mediator between the users and Tradier API. Trade execution server helps in authenticating the user to access the system by retrieving the required values for authentication from the account management server. Important mediator in the system is the Trade execution server which helps in the communication between different components in the Trade Net Brokerage System.