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2. Provide a brief explanation of how this pattern have helped your term project design.

The design template I use in the search function is the composite pattern. This pattern gave me a clear idea of how to combine objects into a tree structure to represent the whole and the parts. Component AppCompatActivity implement default behavior of interface common to SearchActivity and ImageActicity, and it can access and manage them. AppCompatActivity can access ImageActivity class and get the related picture under the image address. Composite SearchActivity class lets clients treat individual objects and compositions of objects uniformly. So, when user choose search function, this class can combine all objects, and then in the getdata () method determines if the restaurant name entered by the user matches with the name in the database. If the match successfully, then directly gets the corresponding picture address to display the picture.

3. Provide a brief explanation of the consequences due to the application of this pattern.

1. The consequences of this pattern are making the client simple.

2. It is easier to add new kinds of components. Newly defined Composite or Leaf subclasses work automatically with existing structures and client code. Clients don't have to be changed for new Component classes.