# Does your class diagram respect or violate SOLID principles?

Yes our class diagram respect SOLID principles

Where all classes are applied SOLID principles and all classes are applied single responsibility

Where Every object in our system have a single responsibility and all the object’s services focused on carrying out that single responsibility.

and all classes are applied open/closed principle our system is open for extension and closed for modification

# Does your class diagram contain any design pattern(s)?

Yes we applied Singleton design pattern in total income class

Used to ensure that only one instance of a particular class ever gets created and that there is just one (global) way to gain access to that instance

And we applied Strategy design pattern in Select Configuration as interface and inherited from this class

Tow classes

1- Best\_fit

2- first\_come

The Strategy pattern defines a family of algorithms,

encapsulates each one, and makes them interchangeable.

Strategy lets the algorithm vary independently from clients that

use it