

Assignment - 03

Roll No:- 43236

Title:- Identify and implement GOF patterns.

Objectives:-

- 1) To study GOF patterns
- 2) To identify applicability of GOF in the system
- 3) Implement system with patterns

Prerequisites:-

- 1) Ubuntu / Linux OS
- 2) Any UML 2.0 tool
- 3) Eclipse with Java API

Theory:-

strategy design patterns:-

It is a software design pattern that enables an algorithm a behavior to be at runtime.

The strategy pattern

- 1) Defines a family of algorithms
- 2) Encapsulates each algorithm
- 3) Makes algorithms interchangeable with the family

Advantages:-

- 1) A family of algorithms can be defined as a class hierarchy and can be used interchangeably to alter application behavior with changing its architecture.

- Page No.:

Date:

✓
- 2) By encapsulating the algorithm separately new algorithm composing with the same interface can be easily introduced.
 - 3) The application can switch strategies at run time.
 - 4) Strategy enables to clients to choose the required algorithm without using or if else statement.

Conclusion:-

They - we have identified and applied GOF patterns to our model.