

Design Principles Demonstrated

Single Responsibility Principle (SRP):

Each class (Admin, Parent, FeeManager, PaymentService) has a single responsibility.

Open Closed Principle (OCP):

PaymentService can be extended for new payment methods without modifying existing code.

Don't Repeat Yourself (DRY):

Common methods like 'dashboard' are abstracted in User base class.

Keep It Simple Stupid (KISS):

The system uses simple methods and classes without unnecessary complexity.