

Course Title: Advanced Programming Laboratory

Course Code: 0714 02 CSE 2100

Field of application: Club Management

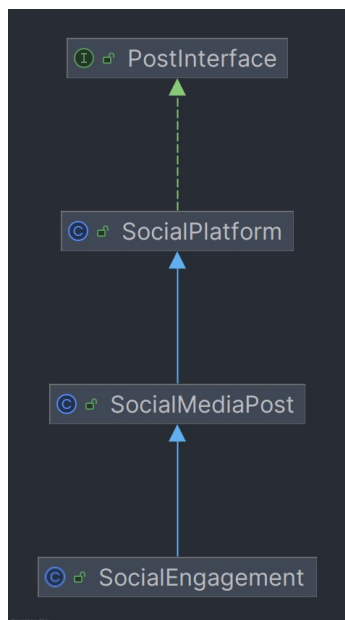
Implementation of SRP (Single Responsibility Principle):

All classes are kept separate so that they bear only one responsibility. Which means, Each class can provide only one type of service.

Implementation of OCP (Open/Closed Principle):

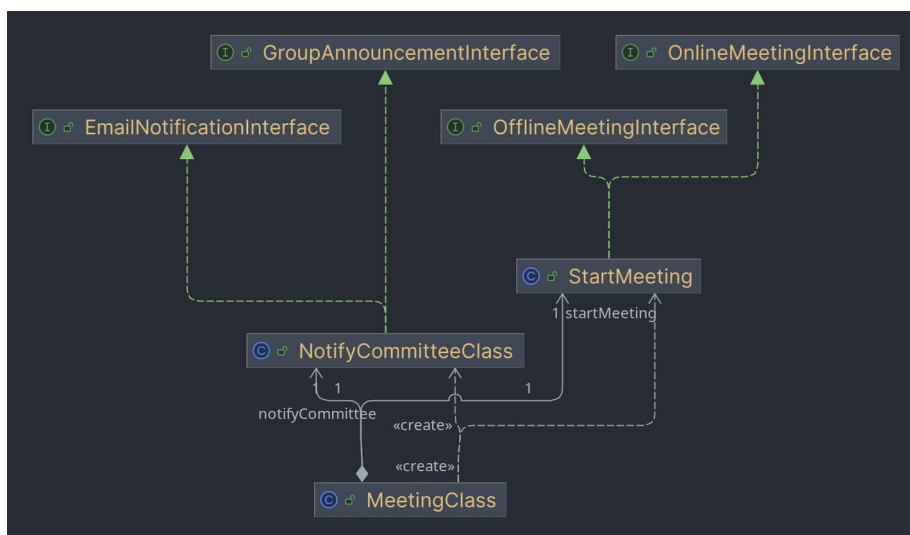
According to OCP principle, classes should be open for extension, but closed for modification.

For Social Engagement, interface Post holds only 'post()' method. 'Social Platform' class implements this interface and defines 'post()' method. 'SocialMediaPost' class extends 'Social Platform' class.



Implementation of LSP (Liskov Substitution Principle):

According to LSP, subclass should remain compatible with the behavior of the superclass. Here, 'Committee_C' is superclass and 'EventManagerCommittee_C' class, 'DesignCommittee_C class', 'BudgetCommittee_C' class, 'HumanResourcesCommittee_C' class are subclasses of 'Committee_C' class.



Implementation of DIP (Dependency Inversion Principle):

According to High-level classes shouldn't depend on low-level classes. Both should depend on abstractions. In this implementation, ResultClass, DecisionMakerClass, JudgeClass, SubmissionClass, PrizeClass, AnnouncementClass do not depend on low level classes, rather depends on interfaces respectively ResultInterface, DecisionMakerInterface, JudgeInterface, SubmissionInterface, PrizeInterface, AnnouncementInterface.

