

Interface Extraction for UML Interface Diagram

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Task: Identify necessary interfaces from the Analysis Class Diagram and provide the details to system designer (Shehroz) for UML Interface Diagram creation

Introduction:

This document outlines the necessary interfaces extracted from the Analysis Class Diagram. These interfaces help in ensuring modularity, reusability, and avoiding code duplication across multiple classes.

List of Interfaces:

Interface Name	Methods	Implemented by	Parent Interface (inheritance)
CalenderManager	updateCalendar()	Calendar, MarketingTeam	-
DiscountApplicable	applyDiscount()	Booking, GroupBooking	-
Reservable	reserveSeats(), unreservedSeats()	Booking, GroupBooking	Booking
FilmOrder	orderFilm()	FilmBooking, MarketingTeam	Booking
LoyaltyProgramManager	manageLoyaltyProgram()	LoyaltyProgram, MarketingTeam	-
Promotions	sendPromoEmails()	MarketingTeam, Promotions	-
FilmBooking	bookFilm()	FilmBooking, MarketingTeam	Booking
AudienceSegmentation	segementAudience()	MarketingTeam, Promotions	Promotions

Note – MarketingTeam is listed under the ‘Implemented by’ column for multiple interfaces. However, to clarify MarketingTeam itself is not an interface but rather an entity (class) that implements multiple interfaces.

This means that it represents a specific team (our team) within the system that performs various actions defined by the interfaces it implements.