## CS250 Group 2 Assignment 2 UML Class Diagram Kellen Murphy | March 15, 2023 Theatre Theatre Number: int Seat Payment Method Total Seats: int Seats : Seat∏ RowLetter: char paymentType: String currentMovie: Movie SeatNumber: int cardholderName: String currentMovieTime: int SeatType: String cardNumber: String Schedule: Movie[] Availability: boolean expDate: String securityCode: int Seat(char row, int number, String addMovie(Movie): void seatType) SetAvailability(boolean): void cancelMovie(Movie): void PaymentMethod(String paymentType, String checkSeatAvailability(Seat): boolean getAvailability() : boolean cardholderName, String cardNumber, String delayMovie(Movie): void expDate, int securityCode): closeTheatre(): void openTheatre(): void Ticketing System An account can store any number of payment methods MasterSchedule: Movie[] Tickets: Ticket[] UserDataBase: RegisteredAccount[] maxTickets: int = 20 Registered Account Movie AccountID: int PurchaseTicket(Movie): void +Name: String Name: String CancelTicket(Ticket): void +Length: int Age: int addMovie(Movie): void +Motion Picture Association Rating: String SavedPayment: PaymentMethod[] cancelMovie(Movie): void discountEligibility: boolean +Movie Time: int rescheduleMovie(Movie movie, int newTime, Theatre +Location: Theatre newLocation) +Total Seats: int verifyAge(): void addPaymentMethod(paymentInformation): void +Available Seats: int sortMovies(): Movie[] deletePaymentMethod(PaymentMethod): void +Cast : String[] updateDiscountEligibility(): void +Crew: String[] Creates-+Reviews : Review[] -Uses-Movie(String name, int length, String rating, Ticket Payment System int time, Theatre location, String[] Cast, ₩ 0..\* String[] Crew) Movie: String totalPrice: int Account Management getName(): Sting Time: int discount: boolean setName(String): void Location: Theatre discountAmt: int Username: String getLength(): int Age: int PurchaseID: int Password: String setLength(int): void Uses information from Seat: Seat RegisteredAccount: boolean getRating(): String setRating(String): void createnewAccount(): void Ticket(String movieTitle, int Time, Theatre VerifyPayment(): void getTime():: int deleteAccount(): void location, int age, Seat seat) issueRefund(Ticket): void getLocation(): Theatre changePassword(String newPW): void getMovie(): String getTotalSeats(): int getAvailableSeats(): int getTime(): int getLocation(): Theatre setAvailableSeats(int): void 0..\* 🛦 getCast(): String[] getCrew(): String[] getReview(int): Review Place Review For Review Rating: int Description: String ReviewID: int 0..\* 0..\* **Shopping Cart** Checkout Review(int Rating, String description, int ReviewID) Cart: Ticket[] cart: ShoppingCart getReviewID(): int totalCost: int totalCost: int setRating(int rating): void discount: boolean setDescription(String desc): void addTicket(Ticket tik): void ConfirmPurchase(): void removeTicket(Ticket tik): void checkout(): void displayCart(): Ticket[] addDiscount(int amount): void