CS 6310 | A6 project UML 1.4 Rui Tan Zhaoran Yang models Qi Li ChenYu You Lanxin Zhang DemographicGroup Event Movie repository - id : long - id: long - shortName : String type : String + Movie(): <<Interface>> - name : String - longName : String **EventRepository** number_of_accounts : int yearProduct : String <<Interface>> duration : int DemographicGroupRepository - Itd_spending : int - studioShortName : String - prev_mon_spending : int PPV - current_mon_spending : int - licensingFee : int findByNameAndYearProduced(name : String, - produceld : long yearProduced : String) : Event + findByShortName + DemographicGroup(- isOffered : boolean + findStudioIdByEventId(eventId : long) : long + PPV(): (shortName : String): DemographicGroup shortName : String, - isWatched : boolean longName : String, numberOfAccounts : int): + Event(type : String, name : String, yearProduced : String, StreamingService + pay (streamingService : StreamingService, duration: int, studioShortName: String, licensingFee: int): percentage : int) : void + getId() : long + restart () : void + getName() : String - shortName : String + getId(): long <<Interface>> <<Interface>> 0..* watch 0..* + getYearProduced() : String - longName : String + setId(): void StreamingServiceRepository StudioRepository - subscriptionPrice : int + getDuration() : int + getShortName() : String getProduceId(): long Itd_rev : int + setShortName(shortName : String) : void getLicensingFee(): int - prev_mon_rev : int + getLongName() : String + getType() : String - current mon rev : int setLongName(longName : String) : void + findByShortName(+ findByShortName(setId(id : long) : void - Itd_license_fee : int + setNumber_of_accounts shortName : String): StreamingService shortName : String): Studio setType(type : String) : void (number_of_accounts : int) : void setName(name : String) :void + getNumber_of_accounts() : int + StreamingService(shortName : String, longName : setYearProduced(yearProduced : String) : void + getLtd_spending(): int String, subscriptionPrice : int): setDuration(duration : int) : void + getPrev_mon_spending() : int + collectFee(percentage : int, event : Event, setProducedId(producedBy : long) : void + getCurrent_mon_spending() : int offerPrice : int, demographicGroup : setLicensingFee(licensingFee : int) : void <<Interface>> <<Interface>> DemographicGroup): void OfferRepository WatchServiceRepository + getStudioShortName() : String + payLicenseFee(event : Event) : void setStudioShortName(studioShortName : String) : void + restart() : void isWatched(): boolean + getId() : long WatchRecord + setWatched(watched : boolean) : void + getShortName() : String + findByStreamingServiceIdAndEventId(+ findByStreamingServiceId(+ isOffered() : boolean + getLongName() : String - id: long streamingServiceId : long, eventId : long): Offer streamingServiceId : long): WatchRecord seOffered(offered : boolean) : void - demographicGroupShortName : String + getSubscriptionPrice(): int + setId(id : long) : void percentage : int + setShortName(shortName : String) : void - streamingServiceShortName : String Offer + setLongName(longName : String) : void - eventName : String - vearProduced : String + setSubscriptionPrice(subscriptionPrice : int) : void + getLtd_rev(): int - streamingServiceId : long - streamingServiceName : String + getPrev_mon_rev() : int eventName : String + getCurrent mon rev(): int + WatchRecord(streamingServiceId : long, - yearProduced : String + getLtd license fee(): int percentage: int, streamingServiceShortName: - price : int String, eventName : String, yearProduced : String): - streamingServiceId : long + getId() : long - eventId : long + getDemographicGroupShortName() : String 0..* + getPercentage() : Integer + Offer(streamingServiceId : long, eventId : long, price : int getStreamingServiceShortName(): String streamingServiceName : String, eventName : String, + getEventName() : String yearProduced : String): + getStreamingServiceId(): long + getId() : long + setId(id : long) : void + getStreamingServiceId() : long + setDemographicGroupShortName(+ getEventId(): long demographicGroupShortName : String) : void + getPrice() : int + setPercentage(percentage : int) void + setId(id : long) : void + setStreamingServiceShortName(+ setStreamingServiceId(streamingServiceId : long) : void streamingServiceShortName : String) : void + setEventId(eventId : long) : void + setEventName(eventName : String) : void + setPrice(price : int) : void + setStreamingServiceId(streamingServiceId : long) : void + getStreamingServiceName() : String + getYearProduced(): String + getEventName() : String - setYearProduced(yearProduced : String) : void etYearProduced(): String + setYearProduced(yearProduced : String) : void TimeData - id : long Studio year : int - month : int shortName : String provide event Timedata(): - longName : String + getYear() : int · Itd_fee_collected : int + setYear(year : int) : void - pre_mon_fee_collected : int + getMonth(): int current_mon_fee_collected : int + setMonth(month : int) void + Studio(shortName : String, longName : String): StreamingwarsApplication + collectLicenseFee(event : Event) : void + restart(): void + getId() : long main(args : String[]): void + getShortName() : String + getLongName() : String + setId(id : long) : void + setShortName(shortName : String) : void + setLongName(longName : String) : void + getLtd_fee_collected(): int + getPrev_mon_fee_collected() : int + getCurrent_mon_fee_collected() : int systemcontrollers WatchServiceController OfferServiceController watchService: WatchService offerService : OfferService streamingwarsystem + watchEvent(watchRecord : WatchRecord): streamingServiceCRUDService : StreamingServiceCRUDService WatchRecord - eventCRUDService : EventCRUDService + allWatchRecords() : List<WatchRecord> + getWatchRecord(id: long): WatchRecord watchService : WatchService StreamingWarSystem + saveWatchRecord(id : long, - counter : static int watchRecord : WatchRecord) : WatchRecord createOffer(offer : Offer): Offer - month : int + deleteWatchRecord(id : long) :void - allOffers() : List<Offer> - year : int + getOffer(id : long) : Offer - eventCRUDService : EventCRUDService + saveOffer(id : long, offer : Offer - streamingServiecCRUDService : deleteOffer(id : long) : void StreamingServiecCRUDService TimeServiceController + deleteEventFromOffer(- demographicGroupCRUDService : DemographicGroupCRUDService streamingServiceShortName: String, streamingWarSystem: StreamingWarSystem eventName : String, yearProduced : String) : void - studioCRUDService : StudioCRUDService - offerCRUDService : OfferCRUDService + moveNext (td : TimeData) : TimeData + displayTime() : List<TimeData> + next() : void + StreamingWarSystem(): + setMonth(month : int) : void + setYear(year : int) : void + displayTime() : List<Integer> + resetMonth(): void + nextMonth(): void - resetRepo() : void

OfferService

streamingServiecCRUDService : StreamingServiecCRUDService

+ findByStreamingServiceNameAndEventNameAndYearProduced(

eventCRUDService : EventCRUDService

studioCRUDService : StudioCRUDService

+ updateOffer (id : long, offer : Offer) : Offer

streamingServiceName : String, eventName : String,

offerCRUDService : OfferCRUDService

+ saveOffer(offer : Offer): Offer

+ deleteOffer (id : long) : void

yearProduced : String) : Offer

+ getOffer(id : long) : Offer

+ getOffers() : List<Offer>

systemservices

WatchService

+ getWatchRecords(id : long, watchRecord : WatchRecord) : List<WatchRecord>

+ updateWatchRecord(id : long, watchRecord : WatchRecord) : WatchRecord

- demographicGroupCRUDService : DemographicGroupCRUDService

- streamingServiecCRUDService : StreamingServiecCRUDService

+ saveWatchRecord(watchRecord : WatchRecord) : WatchRecord

- eventCRUDService : EventCRUDService

+ getWatchRecord(id : long) : WatchRecord

+ deleteWatchRecord(id : long) : void

+ deleteAllInBatch(): void

- watchServiceRepository : WatchServiceRepository

+ watchEvent(watchRecord : WatchRecord): WatchRecord

- offerCRUDService : OfferCRUDService

crudservices OfferCRUDService - offerRepository : OfferRepository + getOffer(id : long): Offer + getOffers() : List<Offer> + findByStreamingServiceIdAndEventId(streamingServiceId: long, eventId : long) : Offer + findByStreamingServiceNameAndEventNameAndYearProduced(streamingServiceName : String, eventName : String, yearProduced : String) : Offer + findByStreamingServiceShortName(streamingServiceShortName) : List<Offer> + saveOffer(offer : Offer) : Offer + updateOffer(id : long, offer : Offer) : Offer + deleteOffer(id : long) : void + deleteAllInBatch(): void **EventCRUDService** - eventRepository : EventRepository - studioRepository : StudioRepository + getEvent(id : long): Event + getEvents() : List<Event> + findByNameAndYearProduced(name : String, yearProduced : String) : Event + saveEvent(event : Event) : Event + updateEvent(id : long, event : Event) : Event + deleteEvent(id : long) : void **StudioCRUDService** DemographicGroupCRUDService + studioRepository : StudioRepository demographicGroupRepository: DemographicGroupRepository + getStudio(id : long): Studio + getStudios() : List<Studio> + findByShortName(shortName : String) : Studio + getDemographicGroup(id : long): + saveStudio(studio : Studio) : Studio DemographicGroup + updateStudio(id : long, studio : Studio) : Studio + getDemographicGroup() List<DemographicGroup> + deleteStudio(id : long) : void + findByShortName(shortName : String): DemographicGroup + saveDemographicGroup(demographicGroup : DemographicGroup) : DemographicGroup + updateDemographicGroup(id : long, demographicGroup : DemographicGroup) : StreamingServiceCRUDService DemographicGroup - streamingServiceCRUDRepository: + deleteDemographicGroup(id : long) : void StreamingServiceCRUDRepository + getDemographicGroup(id : long): DemographicGroup + getStreamingService(id : long): StreamingService + getDemographicGroup(): + getStreamingServices() : List<StreamingService> List<DemographicGroup> findByShortName(shortName : String) : + findByShortName(shortName : String): StreamingService DemographicGroup + saveStreamingService(+ saveDemographicGroup(streamingService : StreamingService) : demographicGroup : DemographicGroup) : StreamingService DemographicGroup + updateStreamingService(id : long, + updateDemographicGroup(id : long, streamingService:StreamingService demographicGroup : DemographicGroup) :): StreamingService DemographicGroup + deleteStreamingService(id : long) : void + deleteDemographicGroup(id : long) : void crudcontrollers DemographicGroupCRUDController StreamingServiceCRUDController - streamingServiceCRUDService: - demographicGroupCRUDService: DemographicGroupCRUDService StreamingServiceCRUDService - watchServiceRepository : WatchServiceRepository offerCRUDService : OfferCRUDService - watchServiceRepository : WatchServiceRepository + createDemograohicGroup(+ createStreamingService(demographicGroup): DemographicGroup streamingService : StreamingService): + allDemographicGroups(): List<DemographicGroup> StreamingService + allStreamingService() : List<StreamingService> + getDemographicGroupByShortName(+ getStreamingServiceByShortName(shortName : String) : DemographicGroup shortName : String) StreamingService + getDemographicGroup(id : long) : + getStreamingService(id : long) : StreamingService DemographicGroup + saveStreamingService(id : long, + saveDemographicGroup(id : long, streamingService : StreamingService) : demographicGroup : DemographicGroup) : StreamingService DemographicGroup + deleteStreamingService(id : long) : void + deleteDemographicGroup(id : long) : void StudioCRUDController EventCRUDController eventCRUDService: studioCRUDService: EventCRUDService StudioCRUDService + createEvent(event : Event): Event reateStudio(studio : Studio): Studio + allEvent() : List<Event> + allStudio() : List<Studio> + getStudioByShortName(+ getEvent(id :long) : Event + saveEvent(id : long, event : Event) shortName : String) : Studio + getStudio(id : long) : Studio + deleteEvent(id : long) : void + saveStudio(id : long, studio : Studio) : + deleteStudio(id : long) : void





