



**AnalysisModel.person.Person**

-gender: Gender  
 -name: String  
 -firstname: String  
 -birthday: SimpleDate  
 -street: String  
 -zipCode: String  
 -city: String  
 -email: String  
 -passportID: String  
 -phoneNumber: String  
 -username: String  
 -password: String

+changePassword: void

**AnalysisModel.item.RentalState**

-maxBookingMinutes: int  
 -rentDate: Date  
 -returnDate: Date  
 -rentalEnum: RentalEnum  
 -bookTime: Date

+calculateFee: MoneyAmount

**AnalysisModel.item.Item**

-itemNumber: int  
 -itemState: ItemState  
 -price: MoneyAmount  
 -shelfPosition: Shelf

+createHardware: Item  
 +createGame: Item  
 +createMovie: Item  
 +delete: void  
 +editGame: void  
 +editMovie: void  
 +editHardware: void  
 +returnItem: void  
 +searchForItem: Item  
 +searchForMovie: List<Item>  
 +searchForGame: List<Item>  
 +searchForHardware: List<Item>  
 +getRentalCountSince: int  
 +isAvailable: boolean

**AnalysisModel.person.Employee**

-employeeNumber: int

+create: Employee  
 +delete: void  
 +edit: void  
 +searchForEmployee: List<Employee>

**AnalysisModel.person.Customer**

-customerSince: SimpleDate  
 -currentBalance: MoneyAmount  
 -customerNumber: int

+create: Customer  
 +delete: void  
 +edit: void  
 +putOnBlacklist: void  
 +removeFromBlacklist: void  
 +isOnBlacklist: boolean  
 +bookItem: RentalState  
 +rentItem: RentalState  
 +noteItem: void  
 +rateItem: void  
 +cancelBooking: void  
 +deleteNote: void  
 +searchForCustomer: List<Customer>  
 +getRentedItems: List<Item>  
 +getBookedItems: List<Item>  
 +getNotedItems: List<ItemDescription>  
 +getRentalHistory: List<RentalState>

**AnalysisModel.person.Admin**

+create: Admin  
 +delete: void  
 +edit: void  
 +searchForAdmin: List<Admin>

**AnalysisModel.item.ItemDescription**

-priceCategory: PriceCategory  
 -itemSince: SimpleDate  
 -description: String  
 -yearOfPublication: int  
 -title: String  
 -ratingPoints: int  
 -rates: int  
 -picture: Image

+calculateRating: RatingPoints

**AnalysisModel.person.BlacklistEntry**

date: SimpleDate  
 -employeeName: String  
 -reason: String

+edit: void

**AnalysisModel.item.HardwareDescription**

-hardwareType: HardwareType  
 -bond: MoneyAmount

+create: HardwareDescription  
 +edit: void

**AnalysisModel.item.GameDescription**

-gameSystem: GameSystem  
 -genres: List<GameGenre>  
 -languages: List<Language>  
 -uskRating: Usk

+create: GameDescription  
 +edit: void

**AnalysisModel.item.MovieDescription**

-movieSystem: MovieSystem  
 -genres: List<MovieGenre>  
 -pictureFormat: PictureFormat  
 -audioStreams: List<AudioStream>  
 -duration: int  
 -director: String  
 -actors: String  
 -subtitles: String  
 -fskRating: Fsk

+create: MovieDescription  
 +edit: void

**Application**

