**CS 311 - Project Milestone 2**

**Term 1 – 2018/2019**

**Project Proposal Form**

**Class Group #: 3                                                                    Project Group #: 3**

**Members of the Group:**

|  |  |  |
| --- | --- | --- |
| **#** | **Name** | **ID** |
| 1 | Sumaya Aljaafary | 2170004887 |
| 2 | Jumana AlGhamdi | 2180006622 |
| 3 | Maryam Jamal | 2170008191 |
| 4 | Zainah Alhaddad | 2170001944 |
| 5 | Latifa Alolayan | 2170000580 |
| 6 | Doaa Saleh – Saleh | 2170007785 |

Kaff platform

(A platform for exchanging books

between CCSIT students).

**UML Diagram:**



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Book** | | - title: String  - bookID: String  - owner: Person  + level: int  - availability: Boolean  +NUMBER\_OF\_BOOKS: int  + courseID : String | | + Book( )  + Book(title: String, owner: Person, level: int, edition: int, availability: boolean)  + setTitle(title: String): void  + getTitle( ):String  + setBookID(bookID: String): void  + getBookID( ): String  + setOwner(owner: Person): void  + getOwner( ):Person  + setAvailability (availability: boolean): void  + getAvailability ( ): boolean  + toString( ): String | | |  | | --- | | **Shelve** | | +date:Date  +booksForBorrow []: Book  +booksForSale []: Book | | +Shevle()  +addBook(book:Book)  +removeBook(book:Book)  +isBookAvaiable(bookID:String)  +isBookAvaiable(name:String)  +getBooksOwnedBy(student:Person)  +displayAllBooks()  +displaySaleBooks()  +displayBorrowBooks()  +displayBookByLevel(level:int)  +displayBookByName(name:String) | |

|  |
| --- |
| **Person** |
| -name : String  -academicNum : String  -level : int  -phone : String  -email : String |
| +Person()  +Person(name:String, academicNum:String, level:int, phone:String, email:String)  +getName() : String  +getAcademicNum(): String  +getLevel(): int  +getPhone(): String  +getEmail() : String  +setName(sName : String) : void  +setAcademicNum(academicNum:String) : void  +setLevel(level:int) : void  +setPhone(phone: String) : void  +setEmail(email : String) : void  +toString():ٍString |



|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Owner** | | -gotPaid: boolean  -graduating: boolean  - bookCount: int | | +Owner()  +Owner(name: String, ownerID: String, phone: String, level: int, email: String, gotPaid:boolean, graduating:boolean, bookCount: int)  +setGotPaid(gotPaid: boolean): void  +getGotPaid(): boolean  +getBookCount(): int  +setBookCount(x: int): void  +incrmntBookCounts():void  +decrmnntBookCount(): void  +toString: String | | |  | | --- | | **Buyer** | | + pay : Boolean | | +Buyer( )  +Buyer(BuyerName : String, IDnumber : int, level : int, phone: String, email:String, pay:boolean)  +setPay(p:boolean):void  +getPay(): Boolean  +toString( ): String | | |  | | --- | | **Borrower** | | - returnedState : Boolean  - returnDate : Date | | + Borrower( )  + Borrower(BorrowerName: String, IDnumber:int, level:int, phone:String, email:String, returnDate:Date)  +getReturnedState(): Boolean  +getReturnDate(): Date  +setReturnedState(s:boolean): void  + setReturnDate(d:Date): void  + toString( ): String | |