PROJECT PROPOSAL: GROUP 1

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TOPIC: PUBLIC LIBRARY SYSTEM

INTRODUCTION

The Public Library System website will grant customers or users access to a variety of educational resources. Users will have the opportunity to create an account and login. Upon login, they will have access to view the item list, add and delete items to the shopping cart. Besides, users are given a choice to enroll in classes.

We decided to work on that project because we think about education in the future. We want to help our community by making educational entertaining resources accessible for free for a certain period of time. The objective of the application is to provide people easy access to material that supports and meets the community's needs.
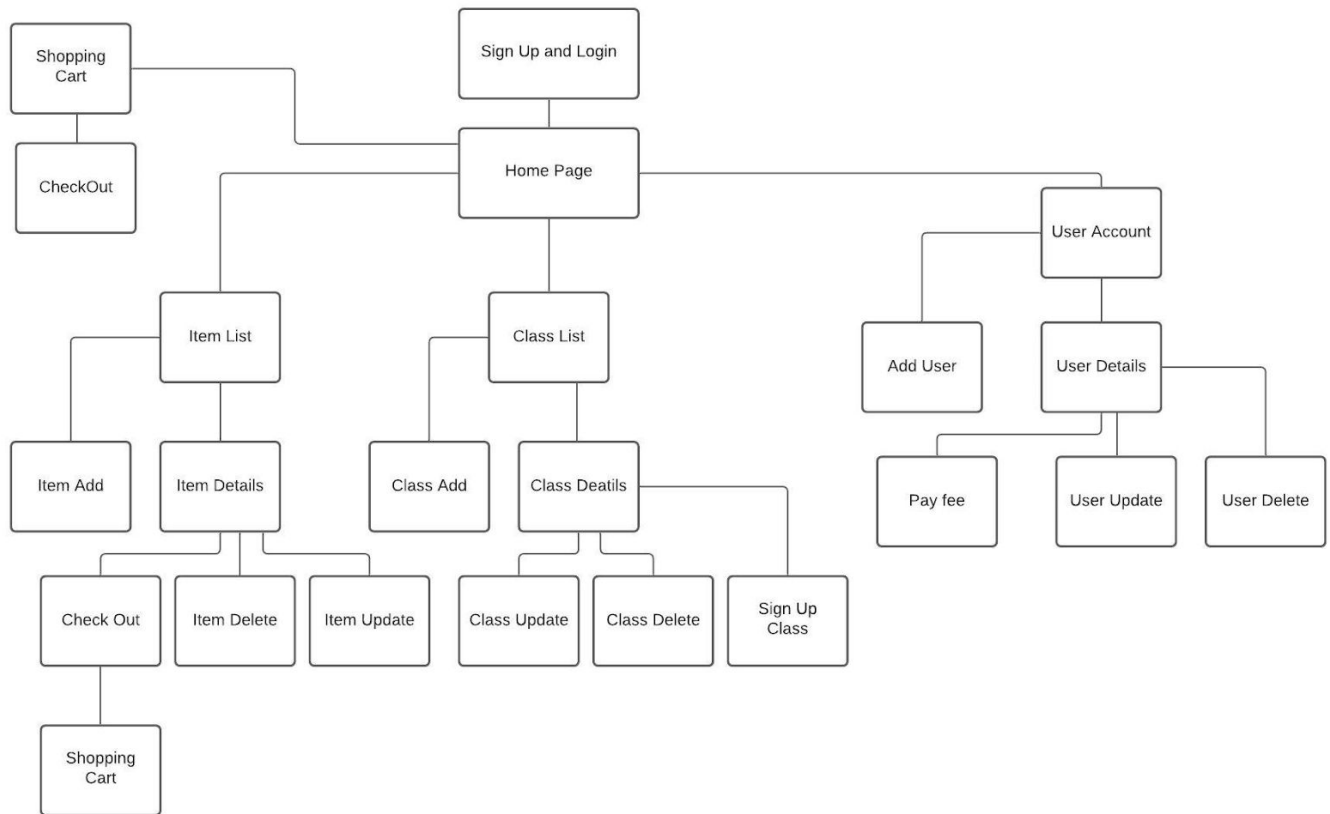
USE CASE AND REQUIREMENTS

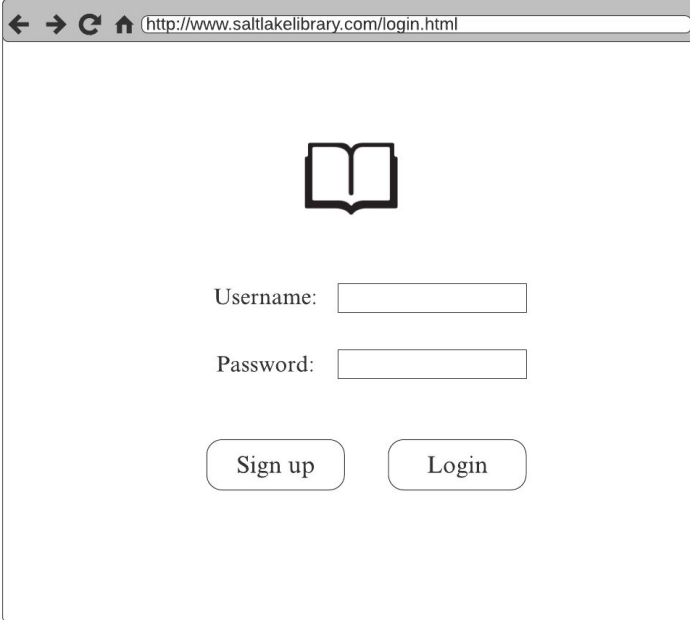|	Use Case	Page Name	Role(s)	Description
1	Login	Login	Customer Admin	1. User login to the app. 2. Upon login, the user is forwarded to Homepage
2	View Home Page	Home Page	Customer Admin	1. User view name of category list(Item list, Class list, and User Account) 2. Each category has a link to each list of category 3. The link is the name of the category
3	View Item List	Item List	Customer Admin	1. Users view the list of items. (show item image, name, available status) 2.Each item has a link to the item-details page. The link can be on the image or item name 3. Display a link on the top of the page to the item-add page.
4	Add data for the new item	Item Add	Admin	1. User adds an item for a new item 2. Upon submission, the user is forwarded to the item list
5	View details of an item	Item Detail	Customer Admin	1. Users view details of one item. 2. Display a link to item update 3. Display a link to item delete 4. Display a link to item rent
6	Update data for an item	Item Update	Admin	1. User update data for one item 2. Upon submission, the user is forwarded to the item list page
7	Delete item	Item Delete	Admin	1. User deletes one item

8	Add to Shopping Cart	Add to Shopping Cart	Customer Admin	1. User rent item 2. If the item is available, show the success page. Rent Item will display on the shopping cart 3. If no, show an unsuccessful page.
9	View Class List	Class List	Customer Admin	1. User view list of classes. (show class image, name, class date) 2.Each class has a link to the item-details page. The link can be on the image or item name 3. Display a link on the top of the page to the class-add page.
10	Add data for a new class	Class Add	Admin	1. User adds a class for a new class 2. Upon submission, the user is forwarded to the class list
11	View details of a class	Class Detail	Customer Admin	1. Users view details of one class. 2. Display a link to class update 3. Display a link to class delete 4. Display a link to sign up
12	Update data for a class	Class Update	Admin	1. User update data for one class 2. Upon submission, the user is forwarded to the class list page
13	Delete class	Class Delete	Admin	1. User deletes one class
14	Sign Up Class	Sign Up class	Customer Admin	1. User sign up class 2. If a class is available, show the success page. 3. If no, show an unsuccessful page.
15	User Account	User Account	Customer Admin	1. User view rented item, add user and user details 2. Display a link on the top of the page to the user-add page. 2. Display a link on the top of the page to the user-details page.

16	Add data for new user	User Add	Admin	1. User adds user for new user 2. Upon submission, the user is forwarded to User Account
17	View details of the user	User Detail	Customer Admin	1. Users view details of one account. 2. Display a link to user update 3. Display a link to user delete 4. Display a link to pay the fee
18	Update data for user	User Update	Customer Admin	1. User update data for one user 2. Upon submission, the user is forwarded to the User Account page
19	Delete user	User Delete	Customer Admin	1. User deletes one user
20	Pay fee	Pay fee	Customer Admin	1. User pays fine 2. If the class is available, show the success page. 3. If no, show an unsuccessful page.
21	Shopping Cart	Shopping Cart	Customer Admin	1. User can see the account's shopping cart item list 2. Display the link to Check Out
22	Check Out	Check Out	Customer Admin	1. Users check out their shopping list.

SITEMAP AND WIREFRAME PAGES

```
Shopping                          Sign Up and Login
Cart

CheckOut                          Home Page                                    User Account

                                                                 Add User      User Details
        Item List        Class List

                                                           Pay fee    User Update    User Delete
Item Add    Item Details    Class Add    Class Deatils

Check Out   Item Delete   Item Update   Class Update   Class Delete   Sign Up
                                                                       Class

Shopping
Cart
```

1. LOG IN / SIGN UP
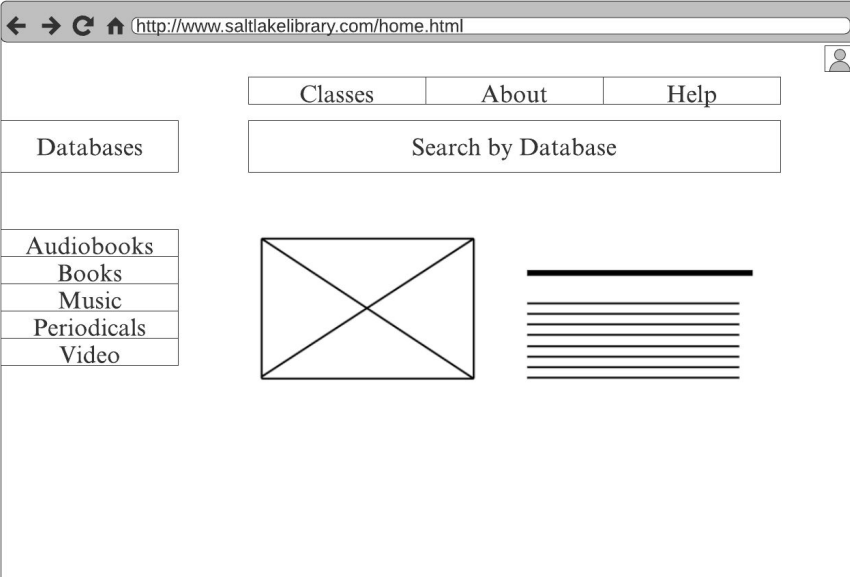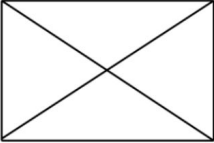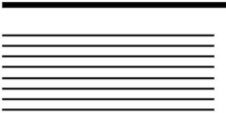
Username:

Password:

Sign up   Login

2. HOME PAGE

http://www.saltlakelibrary.com/home.html

| Classes | About | Help |

Databases

Search by Database

Audiobooks
Books
Music
Periodicals
Video

3. ITEM LIST

http://www.saltlakelibrary.com/itemlist.html

| Add Item | About | Help |

Learning PHP&MysSQL

PHP and MYSQL
By MacLauglinh&Brett

PHP and MYSQL
By Chandler&M.Daniel

Learning PHP for Beginners
By William Henry

4. ITEM DETAILS

http://www.saltlakelibrary.com/item.html?book=php-with-mysql

Item Details (Popup)

Update Item Details

Delete Item Details

Title: Learning PHP, MySQL & Javascript
Author: Robin Nixon
Description: Build interactive, data-driven websites with the potent combination of open source technologies and web standards, even if you have only basic HTML knowledge. In this update to this popular hands-on guide, you'll tackle dynamic web programming with the latest versions of today's core technologies: PHP, MySQL, JavaScript, CSS, HTML5, and key jQuery libraries.
Year: 2018
Publisher: O'Reilly Media, Inc.
Genre: Education

| Go Back | View Cart | Add to Cart |

5. CHECKOUT

http://www.saltlakelibrary.com/checkout.html

Classes	About	Help

Library Checkout

Items	Units	Options
Title: Learning PHP, MySQL & Javascript **Author:** Robin Nixon **Year:** 2018	1	✕
Title: Python Crash Course **Author:** Eric Matthes **Year:** 2015	2	✕
Title: Kotlin for App Development **Author:** Peter Sommerhoff **Year:** 2019	1	✕
Total: 4 Items		

Add More Items	Checkout

6. CLASSES

http://www.saltlakelibrary.com/classes.html
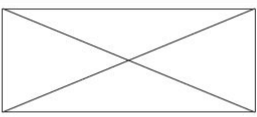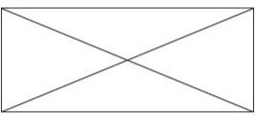
Classes	About	Help

Search for classes... 🔍 +

Improve your writing skills with our advanced writing seminars.

Schedule:
November 1-November 10 2020

Enroll now!

Explore the Majestic American history with us!

Schedule:
November 12-November 21 2020

Enroll now!

Learn Computer Graphics with us!

Schedule:
November 21 - November 30 2020

Enroll now!

DATABASE ERD

DEPARTMENT
- DEPARTMENT_ID INT
- DIVISION_CODE INT
- NAME VARCHAR(30)
- Indexes

EMPLOYEE
- EMPLOYEE_ID INT
- DEPARTMENT_CODE INT
- FIRST_NAME VARCHAR(50)
- LAST_NAME VARCHAR(50)
- EMAIL VARCHAR(50)
- PHONE VARCHAR(15)
- USERNAME VARCHAR(50)
- PASSWORD CHAR(32)
- IS_ADMIN TINYINT
- Indexes

DIVISION
- DIVISION_ID INT
- EMPLOYEE_CODE INT
- NAME VARCHAR(30)
- Indexes

COPY
- COPY_ID INT
- ITEM_CODE INT
- COPY_CONDITION VARCHAR(20)
- CHECKOUT_STATUS CHAR(1)
- Indexes

CHECKOUT
- CHECKOUT_ID INT
- COPY_CODE INT
- EMPLOYEE_CODE INT
- MEMBER_CODE INT
- CHECK_OUT_DATE DATE
- CHECK_DUE_DATE DATE
- CHECK_IN_DATE DATE
- Indexes

MEMBER
- MEMBER_ID INT
- FIRST_NAME VARCHAR(60)
- LAST_NAME VARCHAR(60)
- PHONE VARCHAR(15)
- EMAIL VARCHAR(50)
- STREET VARCHAR(50)
- CITY VARCHAR(50)
- STATE CHAR(5)
- ZIP VARCHAR(45)
- START_DATE DATE
- USERNAME VARCHAR(50)
- PASSWORD CHAR(32)
- Indexes

INVENTORY
- INVENTORY_ID INT
- ITEM_CODE INT
- CHECKOUT_CODE INT
- Indexes

FEES
- FEES_ID INT
- MEMBER_CODE INT
- CHECKOUT_CODE INT
- LATE_FEE DECIMAL(7,2)
- DAMAGE_FEE DECIMAL(7,2)
- Indexes

ITEM
- ITEM_ID INT
- EMPLOYEE_CODE INT
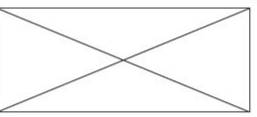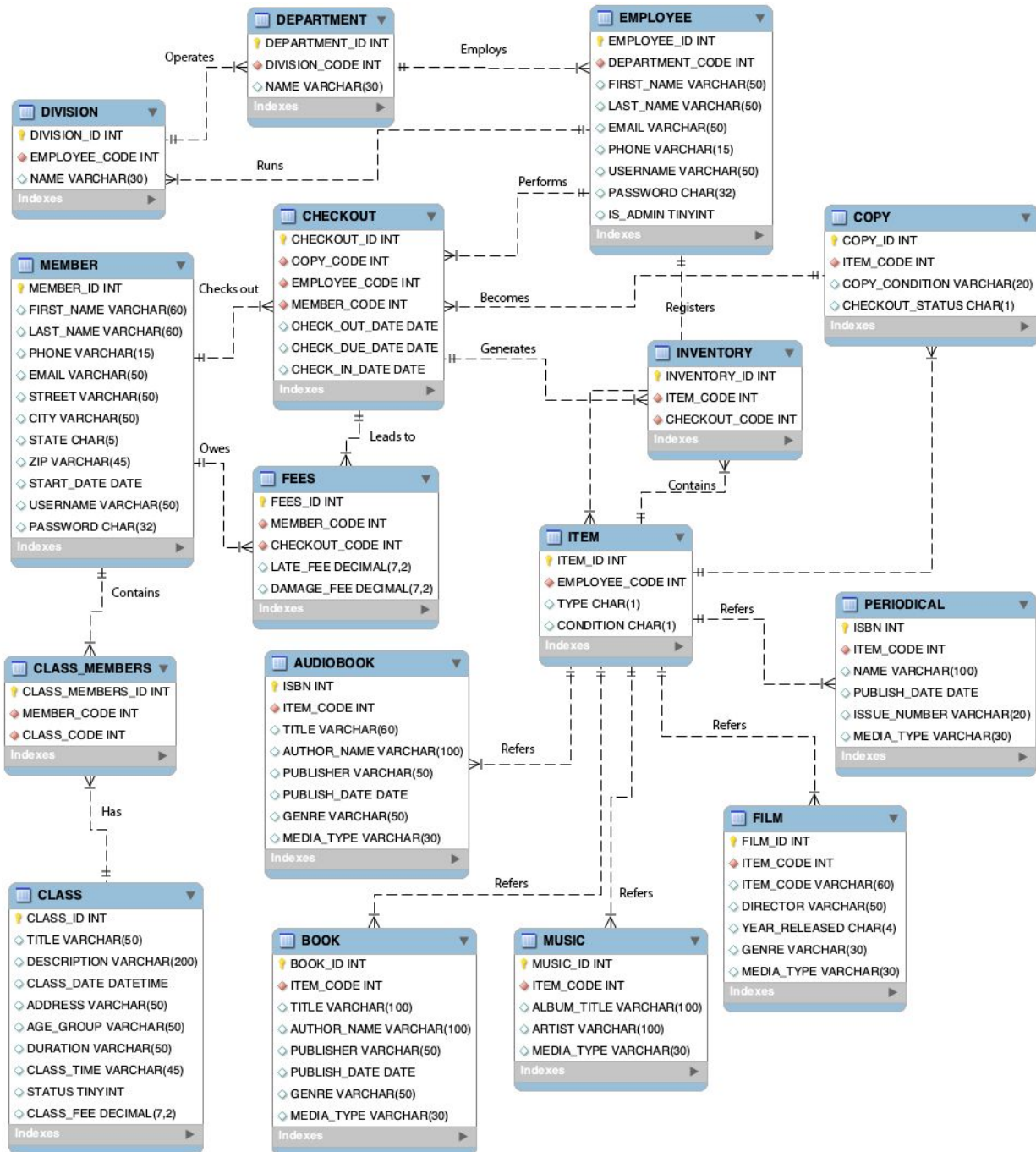- TYPE CHAR(1)
- CONDITION CHAR(1)
- Indexes

PERIODICAL
- ISBN INT
- ITEM_CODE INT
- NAME VARCHAR(100)
- PUBLISH_DATE DATE
- ISSUE_NUMBER VARCHAR(20)
- MEDIA_TYPE VARCHAR(30)
- Indexes

CLASS_MEMBERS
- CLASS_MEMBERS_ID INT
- MEMBER_CODE INT
- CLASS_CODE INT
- Indexes

AUDIOBOOK
- ISBN INT
- ITEM_CODE INT
- TITLE VARCHAR(60)
- AUTHOR_NAME VARCHAR(100)
- PUBLISHER VARCHAR(50)
- PUBLISH_DATE DATE
- GENRE VARCHAR(50)
- MEDIA_TYPE VARCHAR(30)
- Indexes

FILM
- FILM_ID INT
- ITEM_CODE INT
- ITEM_CODE VARCHAR(60)
- DIRECTOR VARCHAR(50)
- YEAR_RELEASED CHAR(4)
- GENRE VARCHAR(30)
- MEDIA_TYPE VARCHAR(30)
- Indexes

CLASS
- CLASS_ID INT
- TITLE VARCHAR(50)
- DESCRIPTION VARCHAR(200)
- CLASS_DATE DATETIME
- ADDRESS VARCHAR(50)
- AGE_GROUP VARCHAR(50)
- DURATION VARCHAR(50)
- CLASS_TIME VARCHAR(45)
- STATUS TINYINT
- CLASS_FEE DECIMAL(7,2)
- Indexes

BOOK
- BOOK_ID INT
- ITEM_CODE INT
- TITLE VARCHAR(100)
- AUTHOR_NAME VARCHAR(100)
- PUBLISHER VARCHAR(50)
- PUBLISH_DATE DATE
- GENRE VARCHAR(50)
- MEDIA_TYPE VARCHAR(30)
- Indexes

MUSIC
- MUSIC_ID INT
- ITEM_CODE INT
- ALBUM_TITLE VARCHAR(100)
- ARTIST VARCHAR(100)
- MEDIA_TYPE VARCHAR(30)
- Indexes

Relationships: Operates, Employs, Runs, Performs, Becomes, Registers, Checks out, Generates, Contains, Owes, Leads to, Refers, Has

CHALLENGES

- Eliciting and finalizing the requirements for the project.
- Documenting a structured and defined set of use cases by analyzing the scenarios and end-users.
- With each scrum meeting, use case requirements were to be changed a little according to everyone's consent.
- Use cases assisted in developing the wireframes rapidly.
- Creating wireframes with menus and buttons that are just central to the purpose of our system without overdoing it.

TENTATIVE DELIVERY SCHEDULE

DESCRIPTION	DATE
1. PROJECT PROPOSAL SUBMISSION	10/24/2020
2. MID-TERM PROJECT SUBMISSION	11/14/2020
3. FINAL PROJECT DELIVERY	11/28/2020
4. FINAL PROJECT PRESENTATION	11/29/2020