JJG Webcoders

Pharmacy Web Application

CSIS3280 Final Project

CSIS3280-001

Group information:

- Group name: JJG_WebCoder
- Members: Jonah Rosler, Joseph Lavell, Thi Hong Gam Tran
- Project name: Pharmacy Website
- Course: CSIS3280-001
- Instructor: Rahim Virani

Project Description

This web application lists a database of medicine for users to browse and purchase. Users who register an account can purchase medicine, see their transactions, and note their prescriptions down in the prescriptions tab. User profiles along with prescriptions can be updated and deleted if necessary.

Entities

- User: support client registering account, logging to account, and changing information of their account.
- Client: is subclass of User. Each Client might have one account or more accounts to access the Pharmacy Website to buy Medicine.
- Doctor: each client will have one or more than one doctor that gives a medicine guide, users can add doctor, delete doctor, or change doctor's information, and buy medicine based on the Doctor's guideline.
- Medicine: show all medicine information on the Browser that users want to buy.
- Prescription: the guideline from the doctor for each medicine that user wants to buy.
- Transaction: after picking up medicine from a webpage, the user can add medicine to the list and check out. Transaction shows all information of user and medicine, and time of transaction.

Web Service Integration

In any operation involving the database one or more REST API web services are used along with PDOs.

Details of API use:

- RegisterAPI is used when registering a new user or when logging in. When registering a new user all registration info is sent by the REST client to the RegisterAPI. The RegisterAPI encrypts the password and a new User and Client are created. When logging in RegisterAPI is used to check the username and password.
- ProfileAPI is used to update, delete and read userinfo on the profile page (once a user has logged in)

Setup Instructions:

- Download project folder, extract

- Create new Wampserver alias "JJG_Pharma"
- Point alias to project root folder (Currently named "pro-JJG_Webcoder")

Directory structure

CSIS3280_FinalProj_JJGWebcoder

--->pro-JJG_Webcoder

--->--->[Project files located here]

--->--->[point WAMPserver alias here]

- Run SQL located in Project folder>finalProject-jjgWebcoder\sql
- Open project in wampserver, navigate to > JJG_Pharma folder
    - Or just click link http://localhost/JJG_Pharma/JJG_Pharma/
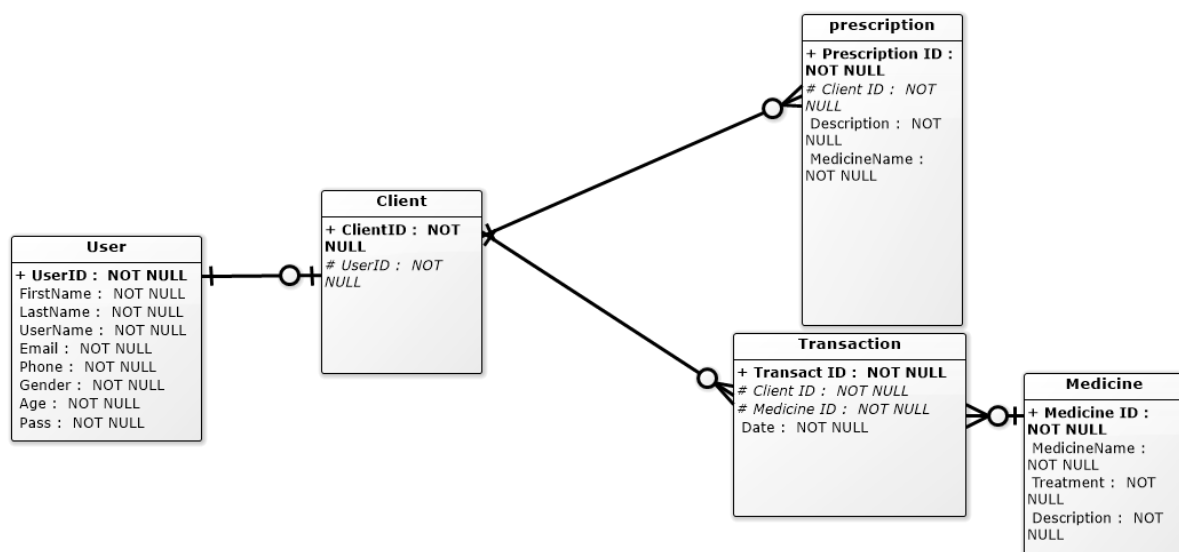
Features

- Navigation link: link between pages: Login, Profile, Medicine, Purchase
- Login: Login on Login page: if you already have an account or register on Login page: if you do not have an account.
- Update account on Profile page if you want to change information of user
- Delete account on Profile page if you want to delete the current account.
- Purchase medicine on Browser/Medicine page: add medicine that you want to buy
- from browser page to purchase page.
- Create, read, update and delete prescriptions on their own page

Additional Technologies:

- CodeIgniter3
    - https://codeigniter.com/
- Milligram CSS Framework
    - https://milligram.io/

Database Diagram

Meeting Minutes

Date	Participants	What was done Since last meeting	Discussed at meeting	To do before next time	What was/wasn't working
March 25	Jonah, Gam, Joseph	DB model created, github repository created	technologies to use: maybe laravel, d3, wordpress	Find out from Rahim if those would be ok and what integrating a web service means	NA
March 28	Jonah, Gam, Joseph	more research	Laravel maybe a bit much to learn. Switch to codeIgniter	Learn about codeigniter, create entities,, decide on another tech	Laravel not going to work
March 30	Jonah, Gam, Joseph	Tutorials in codeigniter	More learning of codeigniter. All completed tutorial	Figure out how to use the Webservices with CodeIgniter	Using different versions of codeigniter, switch to all using version 3
March 31	Jonah, Gam, Joseph	Created diagrams for website flow and use cases, update of DB	How to better plan things, created a drive folder for everything,	Make rough Html pages, Figure out PDO and webservice	Group cohesion not working. Need more of a plan
April 1	Jonah, Gam, Joseph	Made html pages	Decided on second tech: pixel lite	Figure out how to use webservice in the framework,	Webservice and pdoservice not working inside of CodeIgniter

				make first DAOs	
April 5	Jonah, Gam, Joseph	Figured out how to use webservice and PDOs (outside of codeigniter), UserDAO created to integrate with RESTAPI	Task assignment going forward, Webervice structure. Decided on multiple APIs to avoid breaking each other's work	Make all of the DAOs and APIs, start on making pages with codeigniter using controllers	Not cohesively working together.
April 9	Jonah, Gam, Joseph	Login, Registration, Medicine browse, Profile, Prescription and Purchases pages all completed	Work on integrating the pages	Get going on supporting docs, put finishing touches on pages	Merges breaking each other's code.
April 13	Jonah, Gam, Joseph	Pages all integrated	Completed the documentation	NA	All done

Project Schedule

Weekly schedule - JJG_Webcoder
Member: Jonah Rosler, Joseph Lavell, Thi Hong Gam Tran

	Wednesday	Saturday
Week0		2020-03-28
		Planning: website, database, research
week1	2020-04-01	2020-04-04
	Done: Decide new technologies: CodeIgniter. Work on Database, Web process, User cases. Schedule next task: create database, create html Page, working on CodeIgniter	Done: database, test CodeIgniter, link between pages in CodeIgniter, pull master folder to GitHub, pull database to GitHub Schedule next task: Create Entities, Utility, PDO, Rest Component
week2	2020-04-08	2020-04-11
	Done: Entities, Utility, PDO, Rest Component, test database Schedule next task: Link Tricomponent folder to JJG_Pharma folder, create web page base on APIs	Done: connected APIs with JJG_Pharma, create browser page, medicine webpage, login and registration Schedule next task: Finish profile page, transaction page, test program again, do report.
week3	2020-04-14:	
	Test Program, Check report and submit	

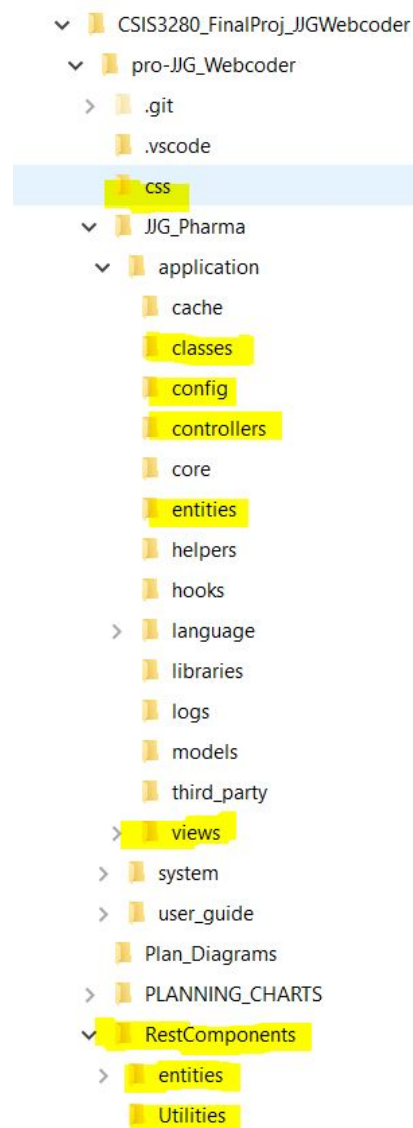4.   Contribution of each member:

Member	Contribute

Jonah Rosler	Medicine page, Transaction page, Prescription Page (Patron class functions, medicine, transaction, prescription) HTML for medicine, transaction, prescription ClientAPI, TransactionAPI, UserAPI ClientDAO, PrescriptionDAO, TransactionDAO
Joseph Lavell	Login page, registration page, profile page (Patron class functions: login, logout, check_login,register, profile) UserDAO RegisterAPI, ProfileAPI implementations of User CRUD
Thi Hong Gam Tran	Create Database, tables Create simple html pages Create Entities, DAOs, APIs Do Report

For Grading: Important files Guide

The following folders are where most of our work went into.

- CSS
    - CSS Files
- Classes
    - Classes used in Controller files, including RestClient
- Config
    - Many config files, important ones are:
        - config
        - constants.php
        - database.php
        - routes.php
- Views
    - Contains php files with HTML to display
- RestComponents
    - Contains rest API's, DAO's, and class entities for accessing database

CSIS3280_FinalProj_JJGWebcoder
  pro-JJG_Webcoder
    .git
    .vscode
    css
    JJG_Pharma
      application
        cache
        classes
        config
        controllers
        core
        entities
        helpers
        hooks
        language
        libraries
        logs
        models
        third_party
        views
      system
      user_guide
    Plan_Diagrams
    PLANNING_CHARTS
    RestComponents
      entities
      Utilities

References

CodeIgniter Tutorial: https://codeigniter.com/userguide3/tutorial/index.html

CodeIgniter input validation: https://codeigniter.com/userguide3/libraries/form_validation.html