Online Course Application Using Python

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Agenda

- Introduction
- Business Requirement
- Methodology
- Overview
- Functional Requirements / Tools Used
- Outputs

Introduction

- Online learning Course app is a great learning tool for students who do not have access to a physical classroom.
- Online learning Course apps are designed to be engaging and enjoyable for students.
- Knowledge augmentation, improved engagement, access to online study material, ease of communication, and, most significantly, remote access are all advantages of a learning app.

Business Requirements

- Design an Online learning Course which can be worked on Desktop or laptop.
- It is also allows users to take online classes in an efficient virtual environment.
- The Course Should be Easily Available to Students and Mentors.
- The Cost of the course should be Effective.
- Should Have Customer Support and High Interface.
- The System Failures Should be Less.

Methodology

Fig. Agile Model

Overview

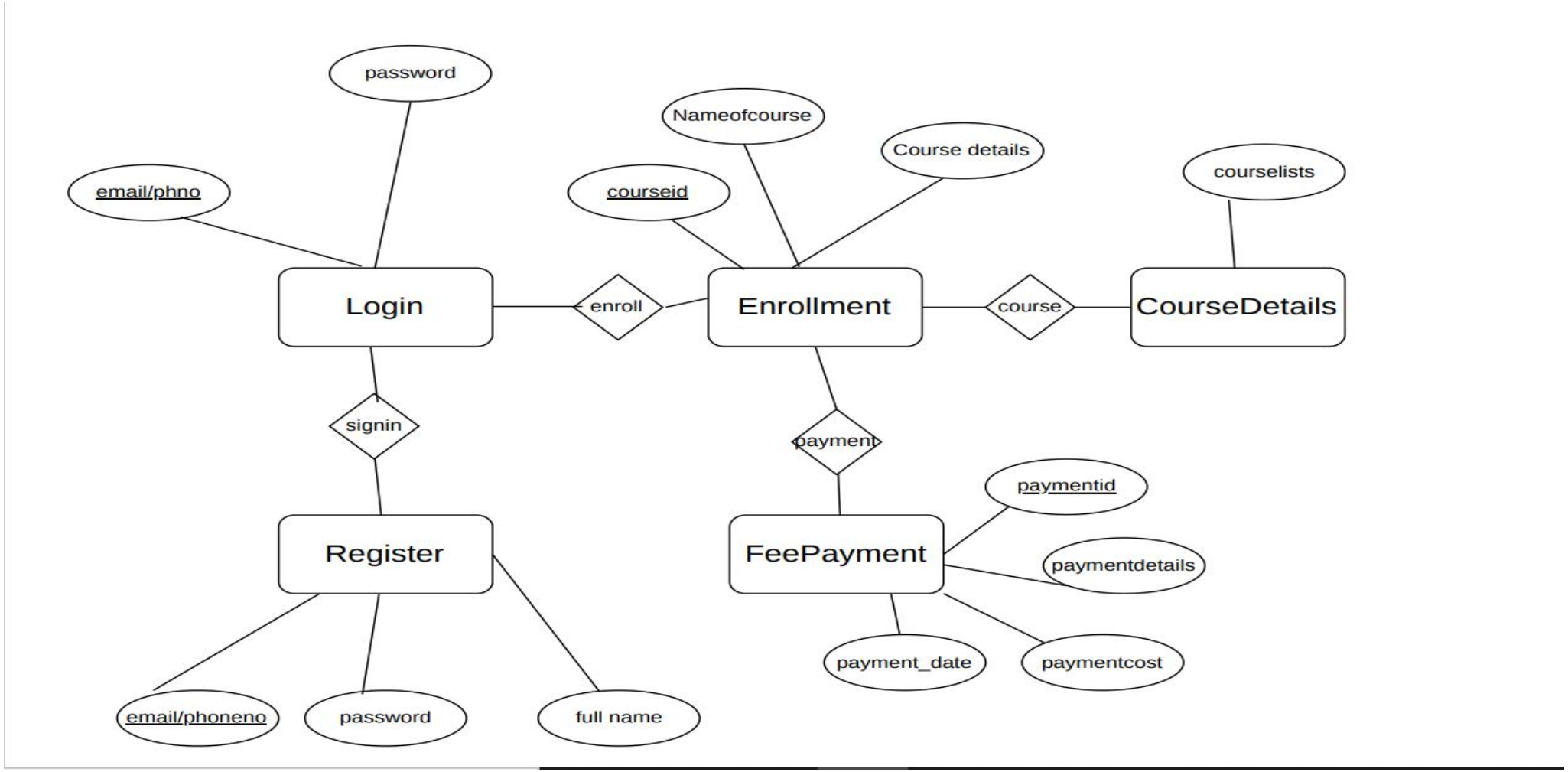
- Online courses teach students how to manage their time better since the student bears the responsibility of engaging with the course instead of simply showing up to class on an assigned day and time.
- As a result, students not only gain knowledge from the coursework, but they also sharpen their time management skills.
- And also there are some advantages are there using these online learning application are:
  - Flexibility. Many people turn to online learning for its flexibility.
  - Ability to Advance a Career.
  - Wider Range of Courses and Programs.

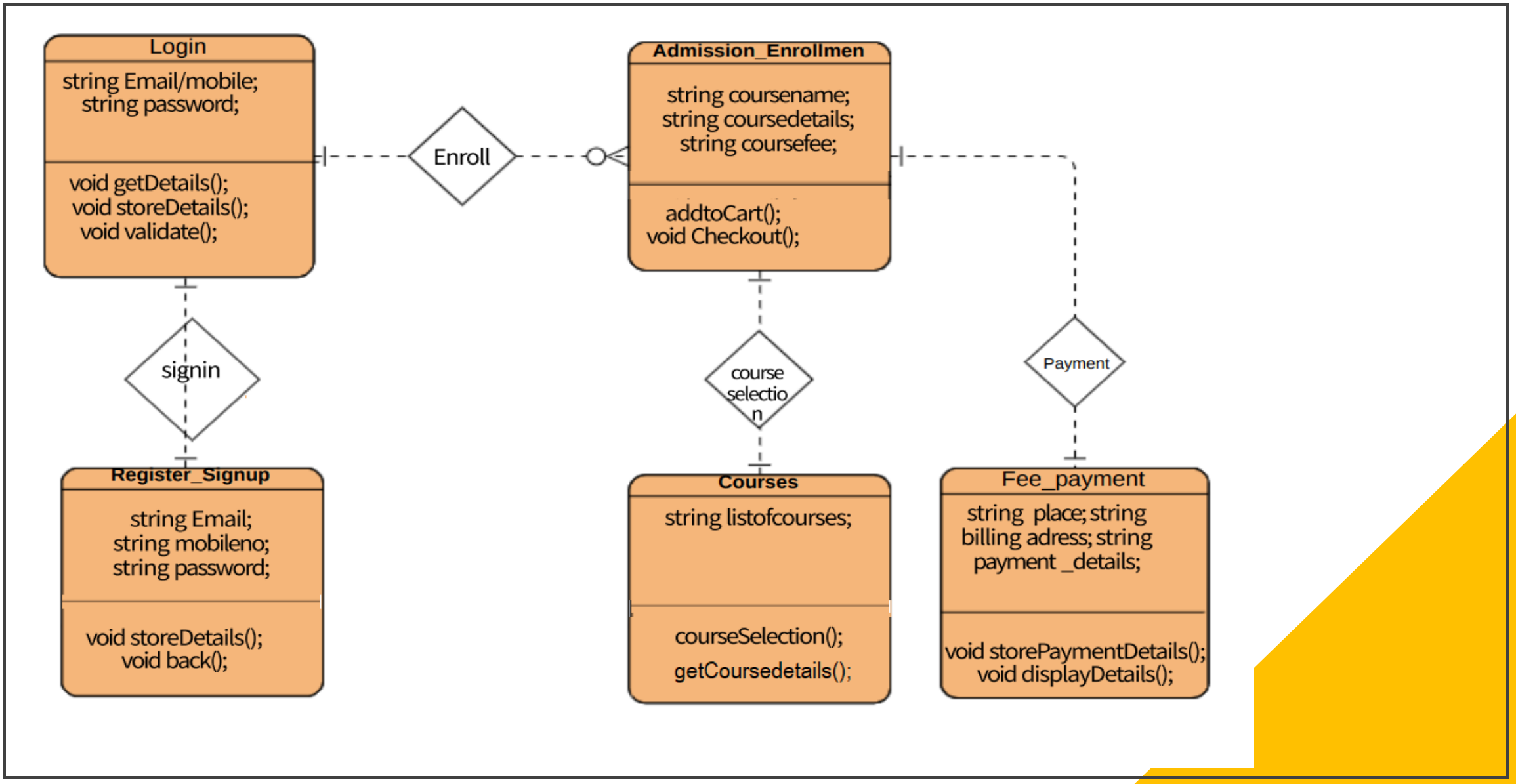
Functional Requirements / Tools Used

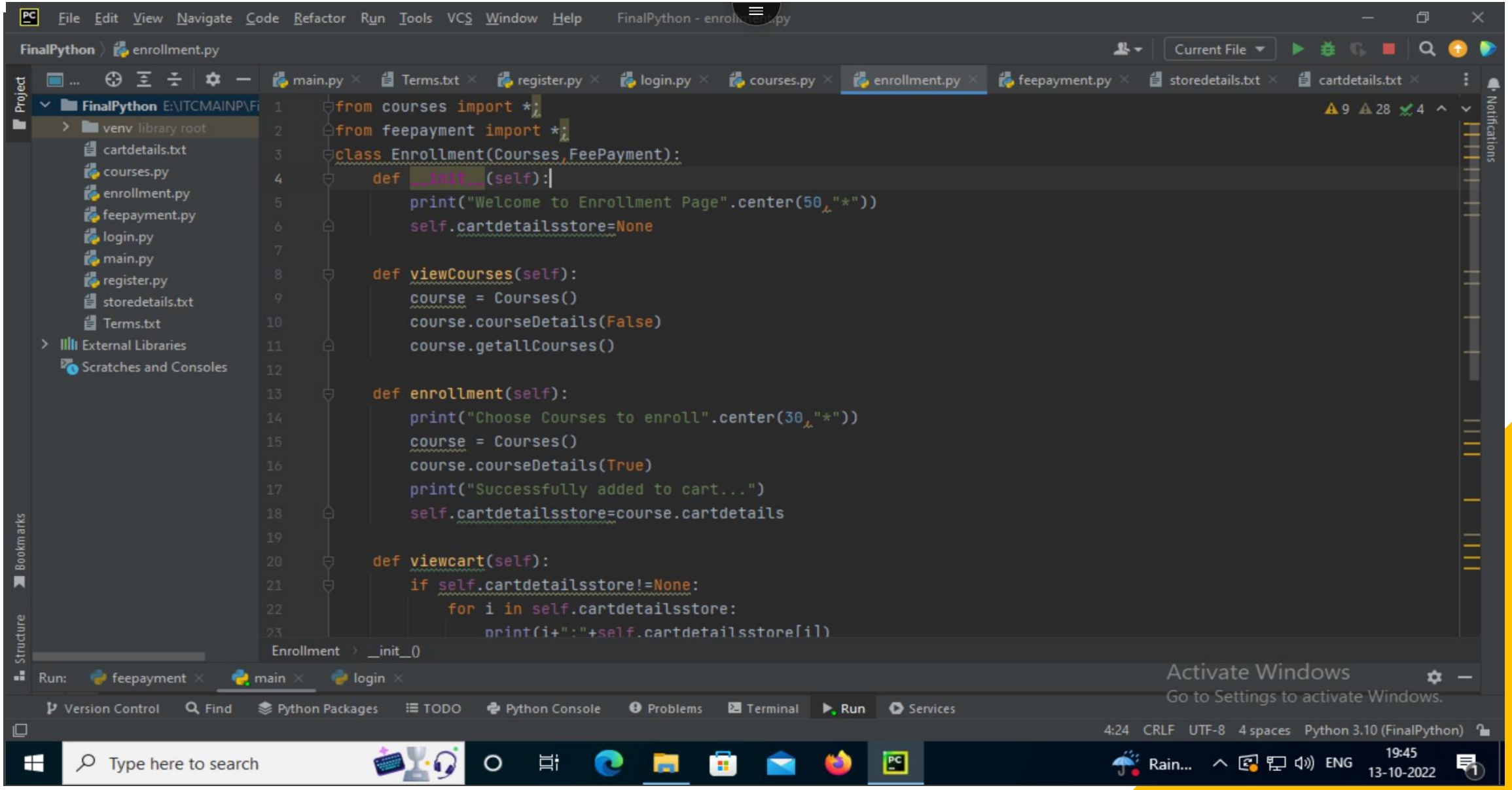
- The Application should ask Basic details for registering into the app like Full name, Email id and Password.
- The Users could able to add Courses into Cart Page.
- The System Should Allow Authorized Users to make any payment.
- Tools used In this system are:
  - PyCharm IDE for Code Development.
  - Git hub for Version Control and Storing.
  - Aws for Deployment in Cloud.

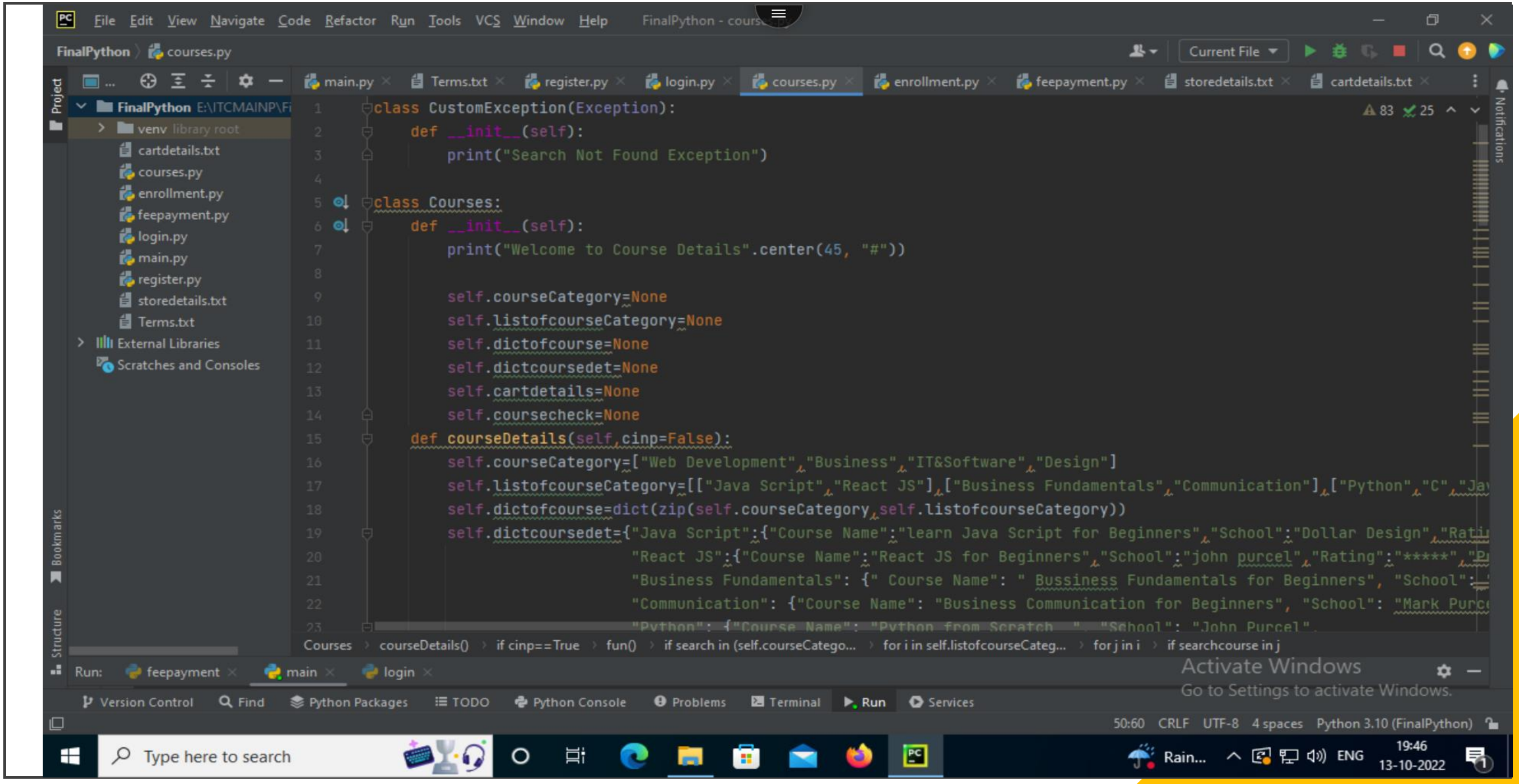
Tools Used Contd..

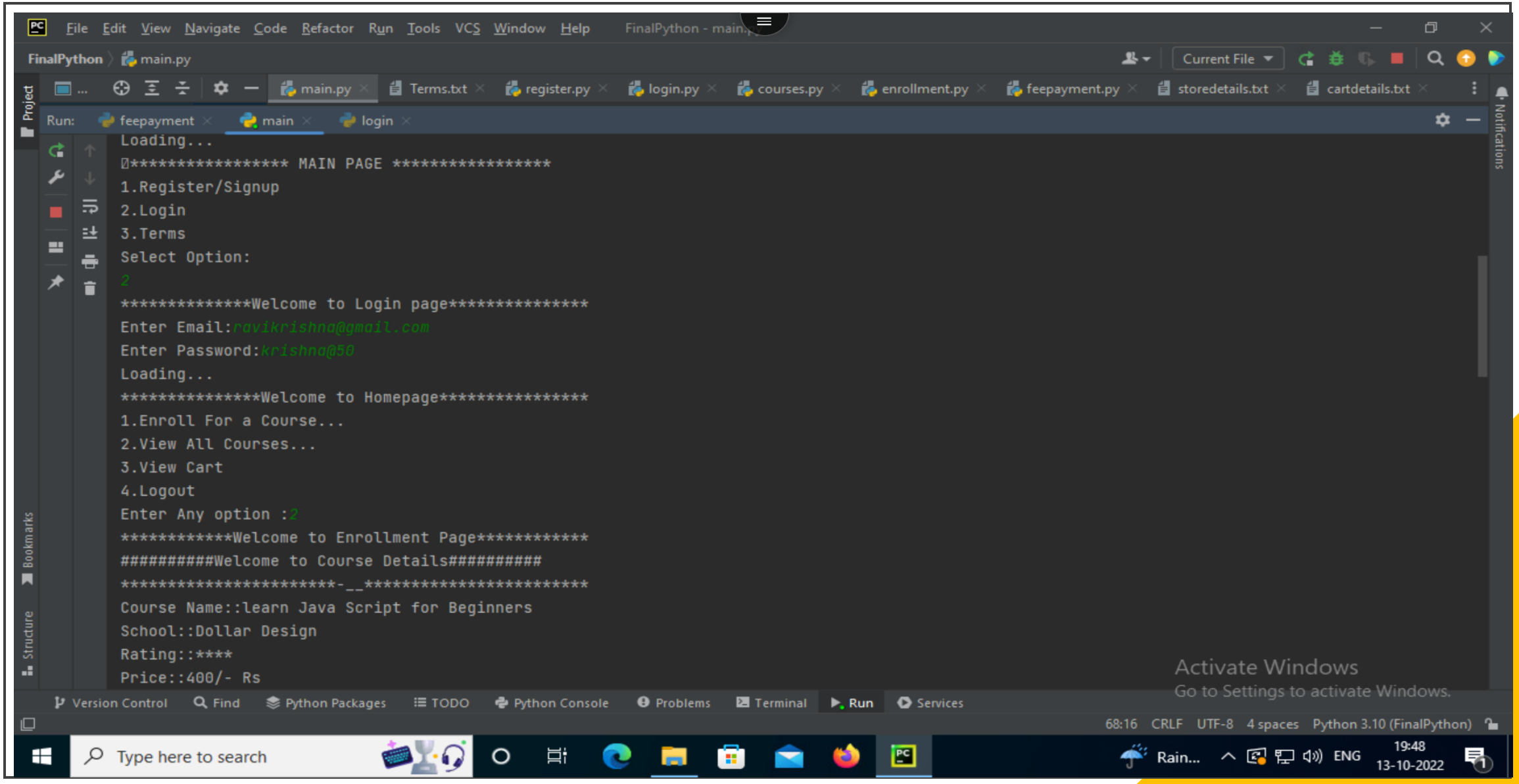
Outputs: ER Diagram

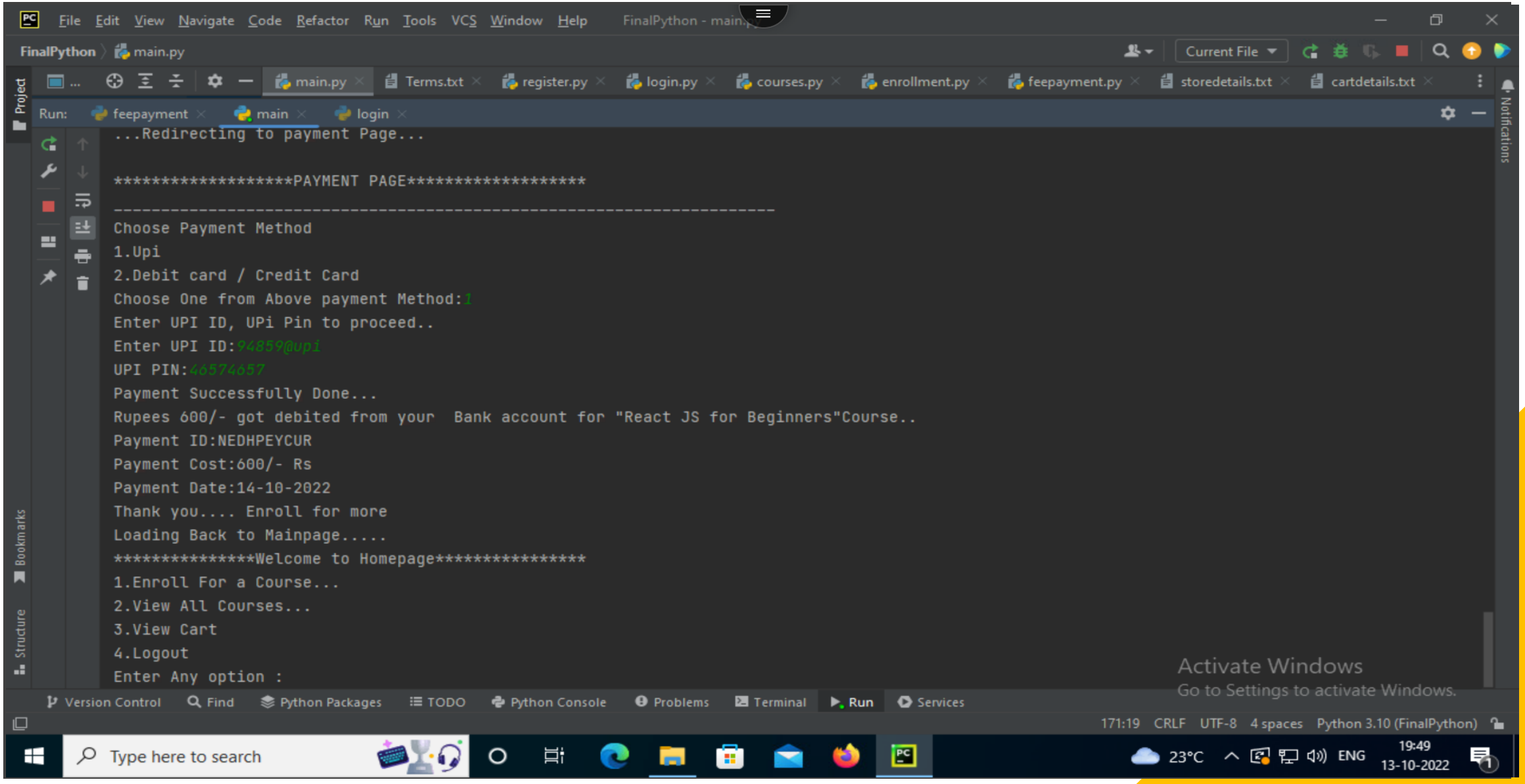



Login
string Email/mobile;
string password;
void getDetails();
void storeDetails();
void validate();
Enroll
Admission_Enrollmen
string coursename;
string coursedetails;
string coursefee;
addtoCart();
void Checkout();
signin
course selectio n
Payment
Register_Signup
string Email;
string mobileno;
string password;
void storeDetails();
void back();
Courses
string listofcourses;
courseSelection();
getCoursedetails();
Fee_payment
string place; string billing adress; string payment _details;
void storePaymentDetails();
void displayDetails();


File Edit View Navigate Code Refactor Run Tools VCS Window Help
FinalPython - enrollment.py
FinalPython
enrollment.py
Current File
main.py
Terms.txt
register.py
login.py
courses.py
enrollment.py
feepayment.py
storedetails.txt
cartdetails.txt
Project
FinalPython E:\ITCMAINP\Fi
venv library root
cartdetails.txt
courses.py
enrollment.py
feepayment.py
login.py
main.py
register.py
storedetails.txt
Terms.txt
External Libraries
Scratches and Consoles
from courses import *;
from feepayment import *;
class Enrollment(Courses,FeePayment):
def __init__(self):
print("Welcome to Enrollment Page".center(50,"*"))
self.cartdetailsstore=None
def viewCourses(self):
course = Courses()
course.courseDetails(False)
course.getallCourses()
def enrollment(self):
print("Choose Courses to enroll".center(30,"*"))
course = Courses()
course.courseDetails(True)
print("Successfully added to cart...")
self.cartdetailsstore=course.cartdetails
def viewcart(self):
if self.cartdetailsstore!=None:
for i in self.cartdetailsstore:
print(i+":"+self.cartdetailsstore[i])
Enrollment › __init__()
Run: feepayment main login
Activate Windows
Go to Settings to activate Windows.
Version Control Find Python Packages TODO Python Console Problems Terminal Run Services
4:24 CRLF UTF-8 4 spaces Python 3.10 (FinalPython)
Type here to search
Rain...
ENG
19:45
13-10-2022


File Edit View Navigate Code Refactor Run Tools VCS Window Help
FinalPython - cours
FinalPython courses.py
Current File
main.py Terms.txt register.py login.py courses.py enrollment.py feepayment.py storedetails.txt cartdetails.txt
FinalPython E:\ITCMAINP\Fi
venv library root
cartdetails.txt
courses.py
enrollment.py
feepayment.py
login.py
main.py
register.py
storedetails.txt
Terms.txt
External Libraries
Scratches and Consoles
class CustomException(Exception):
def __init__(self):
print("Search Not Found Exception")
class Courses:
def __init__(self):
print("Welcome to Course Details".center(45, "#"))
self.courseCategory=None
self.listofcourseCategory=None
self.dictofcourse=None
self.dictcoursedet=None
self.cartdetails=None
self.coursecheck=None
def courseDetails(self,cinp=False):
self.courseCategory=["Web Development","Business","IT&Software","Design"]
self.listofcourseCategory=[["Java Script","React JS"],["Business Fundamentals","Communication"],["Python","C","Jav
self.dictofcourse=dict(zip(self.courseCategory,self.listofcourseCategory))
self.dictcoursedet={"Java Script":{"Course Name":"learn Java Script for Beginners","School":"Dollar Design","Ratin
"React JS":{"Course Name":"React JS for Beginners","School":"john purcel","Rating":"*****","Pu
"Business Fundamentals": {" Course Name": " Bussiness Fundamentals for Beginners", "School":
"Communication": {"Course Name": "Business Communication for Beginners", "School": "Mark Purc
"Python": {"Course Name": "Python from Scratch ", "School": "John Purcel",
Courses courseDetails() if cinp==True fun() if search in (self.courseCatego... for i in self.listofcourseCateg... for j in i if searchcourse in j
Run: feepayment main login
Activate Windows
Go to Settings to activate Windows.
Version Control Find Python Packages TODO Python Console Problems Terminal Run Services
50:60 CRLF UTF-8 4 spaces Python 3.10 (FinalPython)
Type here to search
Rain...
ENG
19:46
13-10-2022


File Edit View Navigate Code Refactor Run Tools VCS Window Help
FinalPython - main.py
FinalPython main.py
Current File
main.py Terms.txt register.py login.py courses.py enrollment.py feepayment.py storedetails.txt cartdetails.txt
Run: feepayment main login
Loading...
********** MAIN PAGE **********
1.Register/Signup
2.Login
3.Terms
Select Option:
2
**********Welcome to Login page**********
Enter Email:ravikrishna@gmail.com
Enter Password:krishna@50
Loading...
**********Welcome to Homepage**********
1.Enroll For a Course...
2.View All Courses...
3.View Cart
4.Logout
Enter Any option :2
**********Welcome to Enrollment Page**********
##########Welcome to Course Details##########
**********-__**********
Course Name::learn Java Script for Beginners
School::Dollar Design
Rating::****
Price::400/- Rs
Version Control Find Python Packages TODO Python Console Problems Terminal Run Services
68:16 CRLF UTF-8 4 spaces Python 3.10 (FinalPython)
Activate Windows
Go to Settings to activate Windows.
Type here to search
Rain...
ENG
19:48
13-10-2022


File Edit View Navigate Code Refactor Run Tools VCS Window Help
FinalPython - main.py
FinalPython main.py
Current File
main.py Terms.txt register.py login.py courses.py enrollment.py feepayment.py storedetails.txt cartdetails.txt
Run: feepayment main login
...Redirecting to payment Page...
**********PAYMENT PAGE**********
Choose Payment Method
1.Upi
2.Debit card / Credit Card
Choose One from Above payment Method:1
Enter UPI ID, UPi Pin to proceed..
Enter UPI ID:94859@upi
UPI PIN:46574657
Payment Successfully Done...
Rupees 600/- got debited from your Bank account for "React JS for Beginners"Course..
Payment ID:NEDHPEYCUR
Payment Cost:600/- Rs
Payment Date:14-10-2022
Thank you.... Enroll for more
Loading Back to Mainpage.....
**********Welcome to Homepage**********
1.Enroll For a Course...
2.View All Courses...
3.View Cart
4.Logout
Enter Any option :
Activate Windows
Go to Settings to activate Windows.
Version Control Find Python Packages TODO Python Console Problems Terminal Run Services
171:19 CRLF UTF-8 4 spaces Python 3.10 (FinalPython)
Type here to search
23°C ENG 19:49 13-10-2022

THANK YOU

QUESTIONS?