FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

PP4E Website

Supervisor: *LÊ THANH NHÂN*

Semester: *II*

Batch No: *T1.2010.E0*

Group No: *02*

Order:	**Full name**	**Roll No.**
1.	*Nguyễn Huỳnh Quang Vinh*	*Student1275052*
2.	*Vũ Đức Huân*	*Student1237719*
3.	*Dương Đình Phúc*	*Student1280927*

***Month**: 08 **Year**: 2021*

This is to certify that

Mr. **Nguyễn Huỳnh Quang Vinh**

Mr. **Vũ Đức Huân**

Mr. **Dương Đình Phúc**

Have successfully Designed & Developed

PP4E Website

Submitted by:

Mr. LE THANH NHAN

Date of Issue:

Authorized Signature:

Content

Content

Acknowledge

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Acknowledge

The success and accomplishment of this project requires tons of hard work from all the team members under dedicated guidance and assistance from a number teachers and staffs from FPT Aptech Computer Education.

We would like to send our thanks to the FPT Aptech Computer school for designing this practical project course so as that we are able to gain practical skills and experience of team-work, problem defining and solving, project handling and many more which would turn out to be a great asset and would help us to be more competitive candidates in the IT labour market.

We are thankful to have our families stand behind us to encourage and support us to pursue our dreams as well as having those friends and classmates who have shared their knowledge and experience with us, contributing to our success of building our first awesome back-end application.

As a team leader, I would like to thank my two team mates, Mr. Huan and Mr. Phuc, for their patience, hard-working, assistance and collaboration throughout the project course.

Last but not least, we would like to thank Mr. Le Thanh Nhan, our dedicated class head teacher, who helps us to obtain the foundation of programming knowledge and to successfully accomplish this challenging back-end project.

On behalf of all team members in Group 2, Sem 2 Class T1.2010.E0,

Yours Sincerely,

Nguyen Huynh Quang Vinh.

Synopsis

This project is considered a simulated website that we could use for our ambitious plan of our future career path after our graduation.

In recent years, freelance jobs have become a phenomenon because of its superior features and flexibility as well as the gradual change of working formalities with the support of modern technology and the impact of COVID pandemic. This phenomenon grows dramatically in some particular fields such as software engineering, big data, AI and graphical design, attracting a huge amount of workforce to the job market. As a result, more and more people choose to pursue those promising sectors in college and universities while many other people who are currently under employment, would like to take shorter courses at a night education centre as a supplement for their current skills and knowledge.

Observing those changes and the strong demand of night courses in these fields, we would like to establish an education centre that could help us to start up our own business related to software engineering as well as helping people to achieve their dreams. First thing first, we would like to build up a web application through this Semester 2 Project for which we use the back-end languages and frameworks (PHP and Laravel) that we have been taught in school and then combine with React for the front-end development to create a high performing single page application.

The web application has two main features:

- To control contents published on the interactive UI.
- To manage the information of classes, students and teachers.

Review 01

Problem Definition

As a newly start-up company in a software engineering industry, PP4E (Professional Programming for Everyone) would like to have a beautiful, interactive and robust web application to well represent our knowledge, skills and quality in software, design and data analysis industry.

Besides that, it needs a competent administration system to serve the following purposes:

- Marketing team: to manage and update content of the courses on the front page.
- Sales and Admin team: to manage classes, teachers, students and other tracking reports such as revenues, student's mark, etc.
- Teachers: to manage the Students' List and Mark.

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	Project Group No:02	Lê Thanh Nhân
Signature		
Date		

Customer Requirement Specification

I. OVERVIEW

- Front Page:
  - The website obtains essential pages for visitors to find information about courses, teachers and the PP4E education centre.
  - The website needs to be written in a trending front-end language as a showcase for our high teaching quality.
  - The website should use API to connect to the database as it can be easily interacted with mobile app written and launched in the following year.
  - The website needs to have interactive and beautiful data and charts to publish our statistical performance.
- Administration Page:
  - There are three authorization levels for three different groups of staff: Marketing, Sales and Admin, and Teacher.
  - There are basic CRUD functions for courses, classes, students, teachers, etc.
  - The data are then assigned and connected with each other to form a particular group of courses, classes, students and teachers.
  - There is a search function for each entity.
  - There is charts or graphs illustrating the number of sales and students.
  - There is export and import function for some areas to have efficient working flow (save time and reduce error).

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II. FUNCTIONAL DESCRIPTION

Supplier	Activity/Function	Input	Process	Output
All Users	- Login	- User email - User password	- Check authentication information on the database - if provided data is matched, then allow to login and see the admin page based on granted right	- notification on success or failure login
All Users	- Update password	- Email address - Current password - New Password	- Validate current information (email and password) - Validate the format of new password - If all matched, then proceed to update the password	- notification on success or failure action
All Users	- Update their information	- Their own personal information	- Validate the input information - If all matched, then proceed to update their information	- notification on success or failure action
Marketing User	- CRUD contents on Front page	- Information for each section/page	- Validate the input information - If all matched, then proceed to update their information	- notification on success or failure action

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Sales and Admin User	- CRUD information of Student, Teacher, Class, Courses.	- Relating information required for each group	- Validate the input information - If all matched, then proceed to update their information	- notification on success or failure action
Teacher	- CRUD information of Student's mark	- Student mark	- Validate the input information - If all matched, then proceed to update their information	- notification on success or failure action
Web Master	- CRUD on users' accounts and their access right	- User email - User's access right's group	- Validate the input information - If all matched, then proceed to update their information	- notification on success or failure action

III. SYSTEM REQUIREMENT

1. Hardware

	SERVER	
	Minimum	**Recommended**
Processor	800 MHz Intel Pentium III	2.6 GHz Intel Pentium IV
Memory	2 GB	4 GB
Disk space	8 GB	16 GB
Monitor	Super-VGA (800x600) or higher resolution monitor	
Internet	Internet access is required	

	CLIENT
Processor	800 MHz Intel Pentium III
Memory	512 MB
Monitor	Super-VGA (800x600) or higher resolution monitor
Internet	Internet access is required

2. **Software**

	SERVER
Operating System	Windows XP or later
Browser	Google Chrome 65.0
Database	Microsoft SQL Server 2014
	CLIENT
Operating System	Windows XP or later
Browser	Google Chrome 65.0

IV. DEVELOPMENT SOFTWARE

- Microsoft Windows 10
- Google Chrome 65.0
- XAMPP v3.3.0
- Visual Studio Code

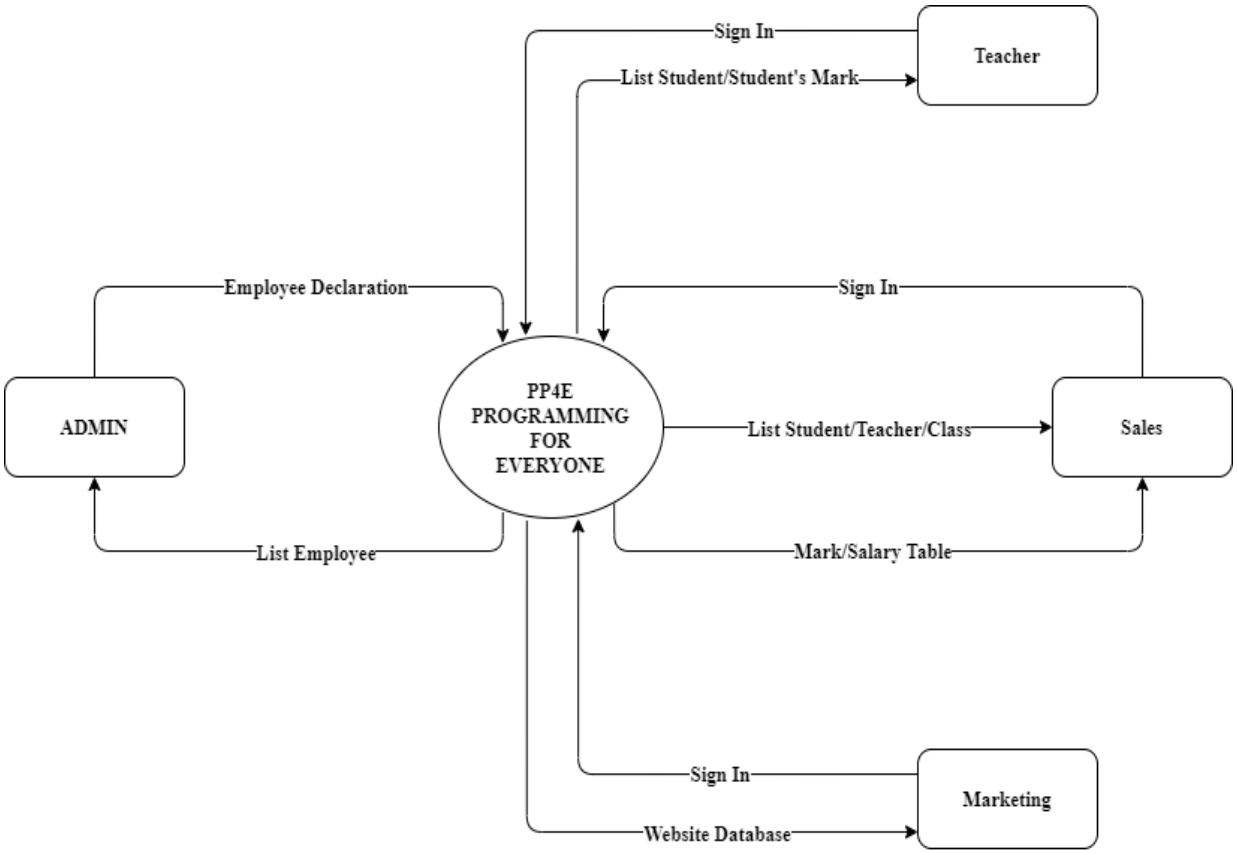
- Postman
- Git Bash
- PHP MyAdmin

V. TECHNOLOGY

- HTML/CSS
- JavaScript
- AJAX
- JQuery
- PHP
- Laravel Framework
- Reactjs
- Axios

Review 02

Data Flow Diagram



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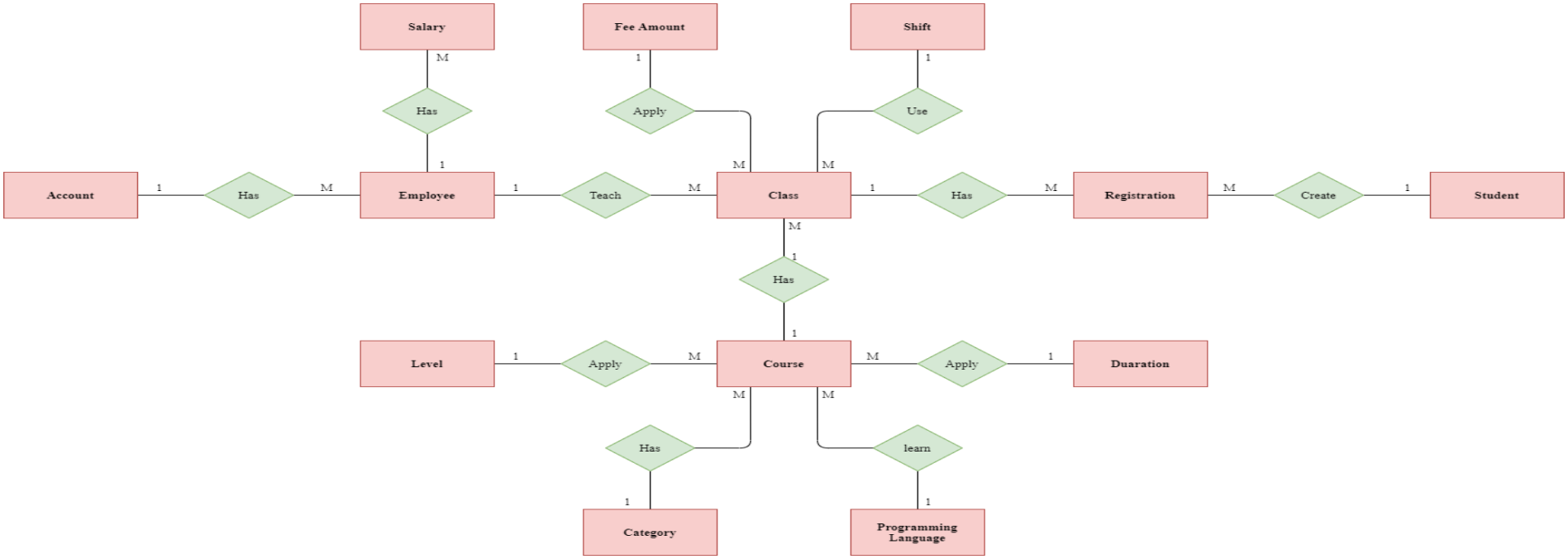
Date		

Entity Relationship Diagram



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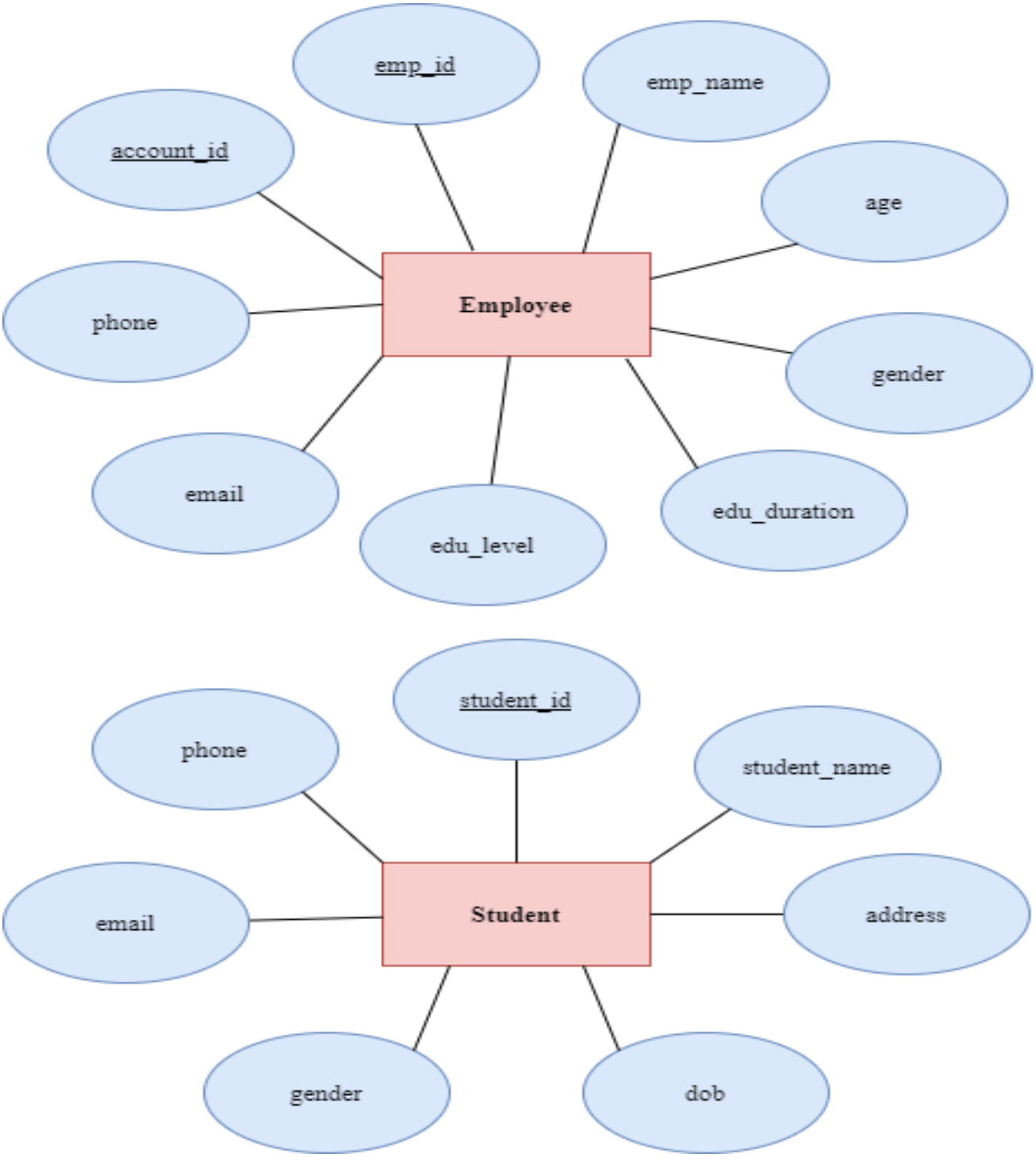
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account_id
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phone
gender
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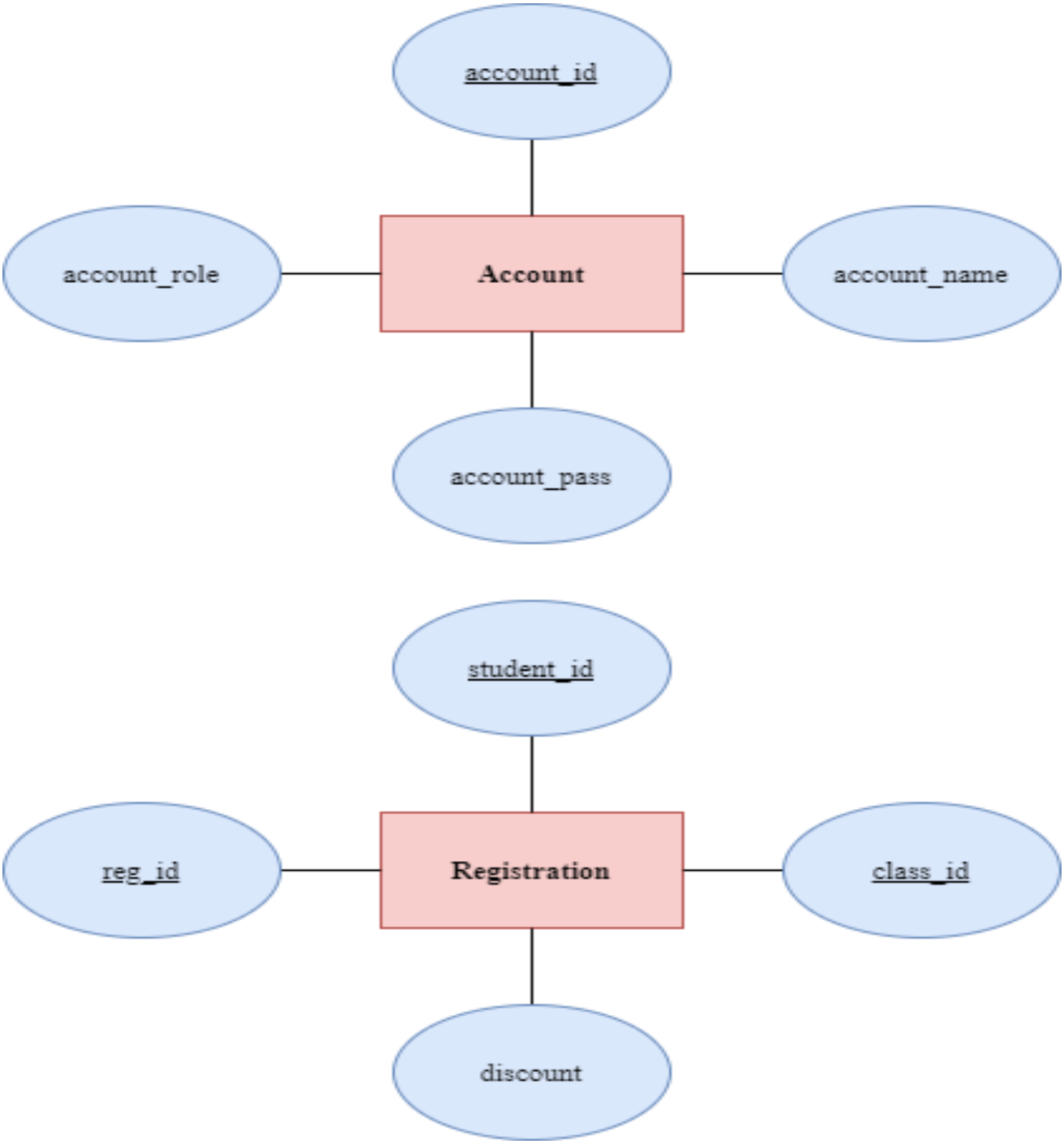
edu_level
student_id
phone
student_name
email
Student
address
gender
dob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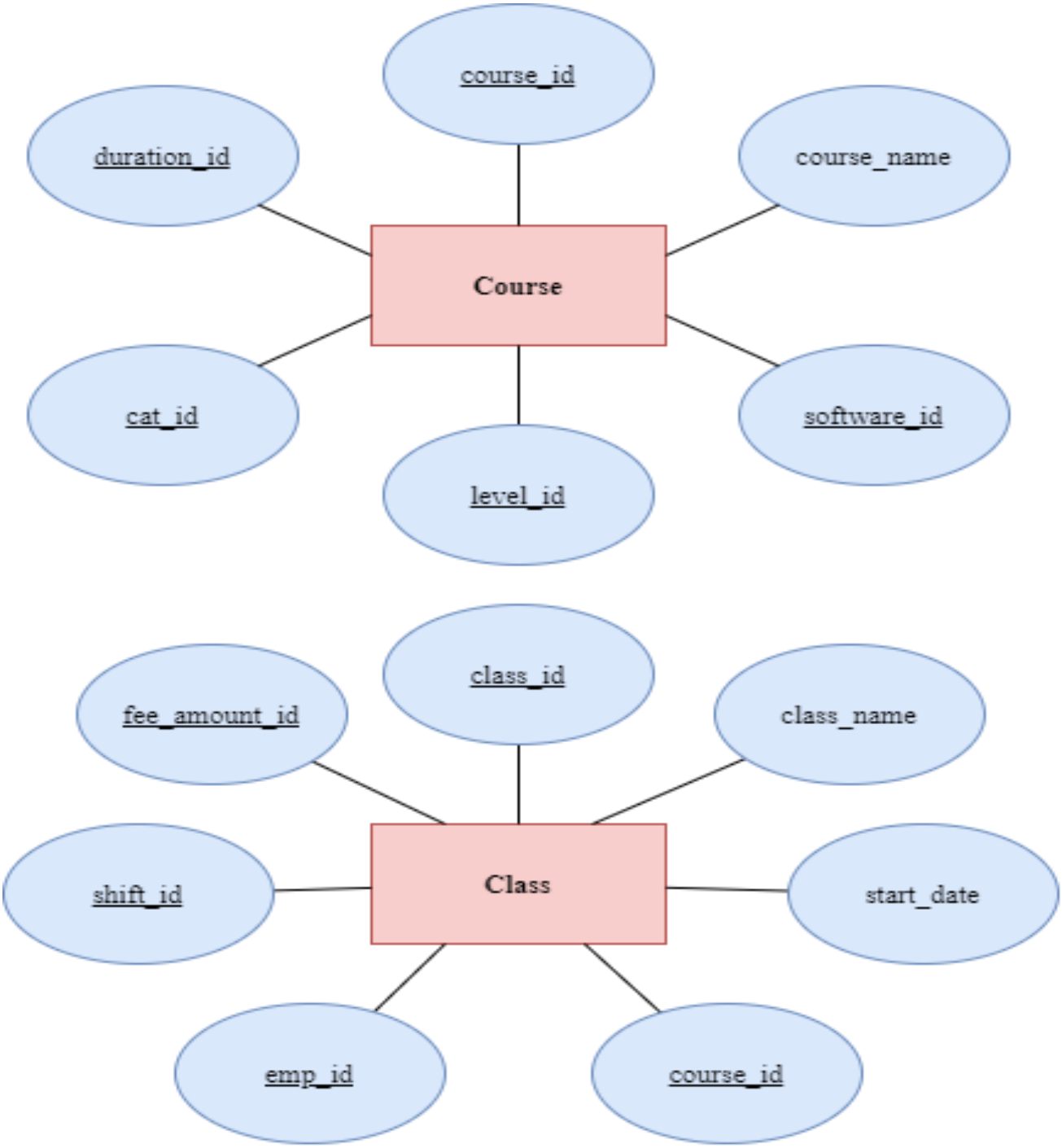
Account
account_name
account_pass
student_id
reg_id
Registration
class_id
discount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level_id
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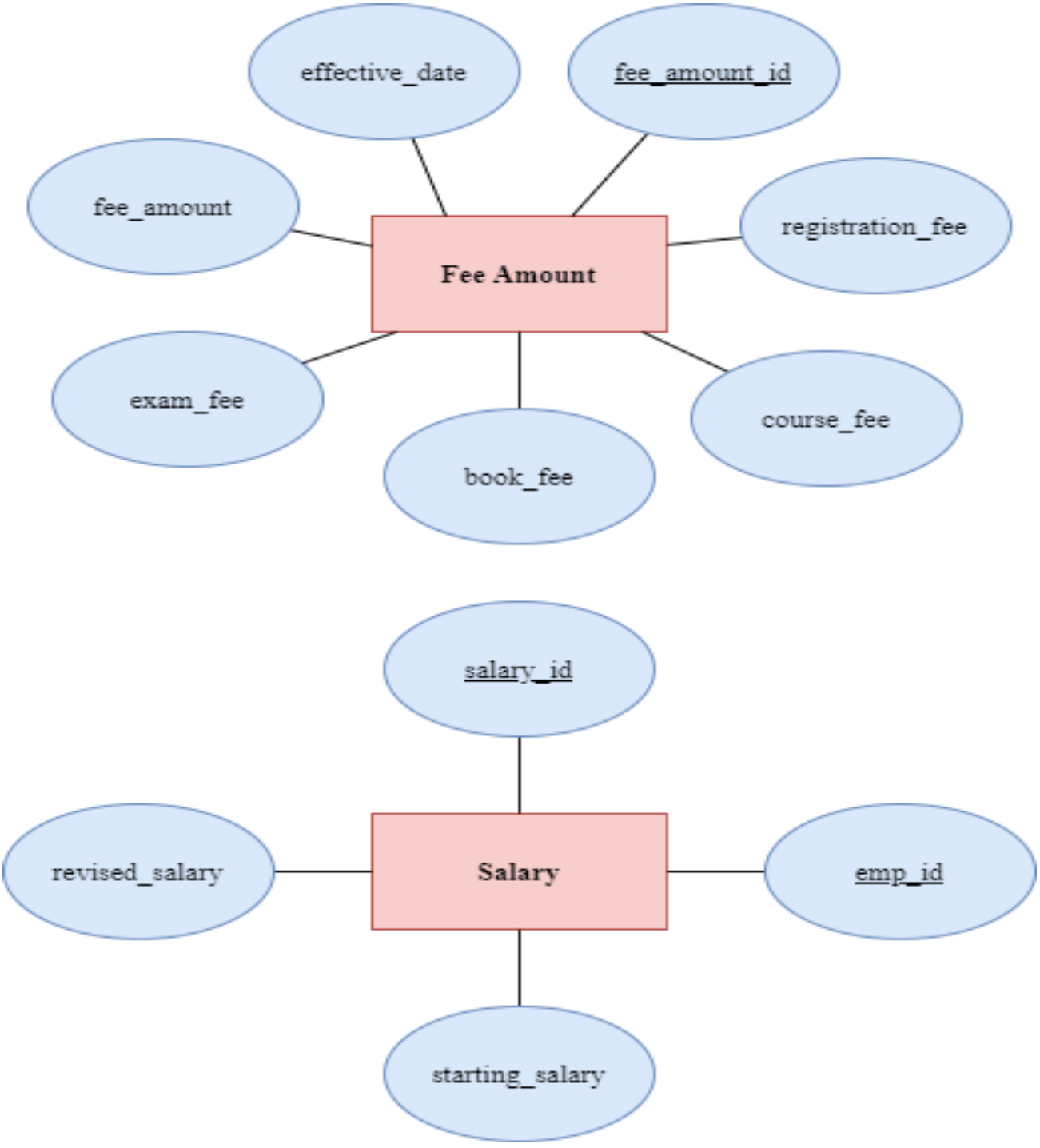
Class
start_date
emp_id
course_id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Fee Amount
exam_fee
course_fee
book_fee
salary_id
revised_salary
Salary
emp_id
starting_salary

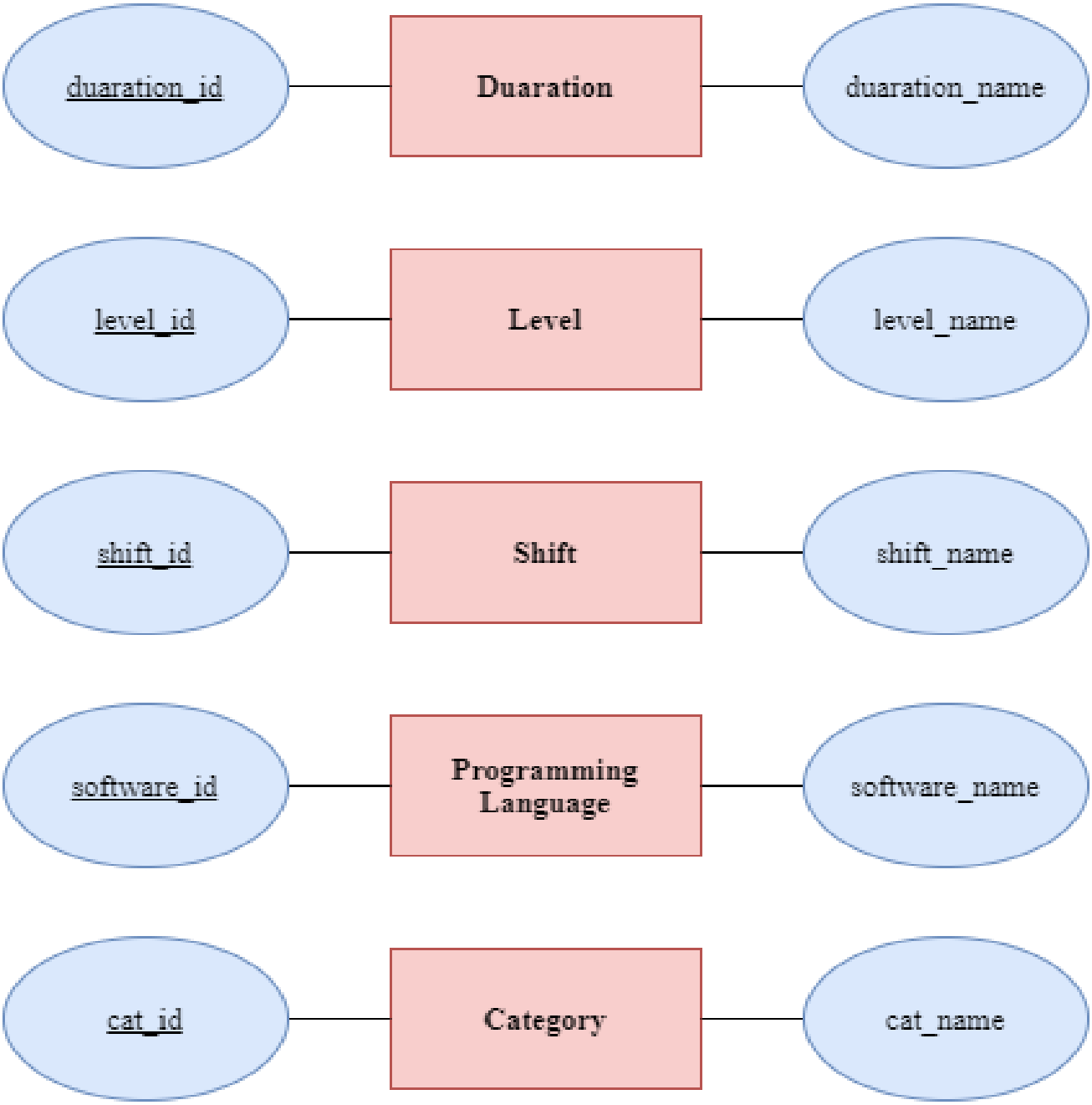
duaration_id
Duaration
duaration_name
level_id
Level
level_name
shift_id
Shift
shift_name
software_id
Programming Language
software_name
cat_id
Category
cat_name

Table Design

account					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	account_id	int (10)	Primary key	Not null	Account identification
2	account_name	varchar (50)		Not null	Account's name
3	account_pass	int (26)		Not null	Account's password
4	account_role	int (10)		Not null	Account's role

employee					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	emp_id	int (10)	Primary key	Not null	Employee identification
2	emp_name	varchar (50)		Not null	Employee's name
3	age	int (10)		Not null	Employee's age
4	gender	int (10)		Not null	Employee's gender
5	edu_duration	int (10)		Not null	Working time at school
6	edu_level	int (10)		Not null	Employee qualification
7	email	int (10)		Not null	Employee's email
8	phone	int (10)		Not null	Employee's phone
9	account_id	int (10)	Foreign key	Not null	Account identification

student					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	student_id	int (10)	Primary key	Not null	Student identification
2	student_name	varchar (50)		Not null	Student's name
3	address	varchar (50)		Not null	Student's address
4	dob	date		Not null	Student's date of birth
5	gender	int (10)		Not null	Student's gender
6	email	varchar (50)		Not null	Student's email
7	phone	int (10)		Not null	Student's phone

course					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	course_id	int (10)	Primary key	Not null	Course identification
2	course_name	varchar (50)		Not null	Course's name
3	software_id	int (10)	Foreign key	Not null	Software identification
4	level_id	int (10)	Foreign key	Not null	Level identification
5	cat_id	int (10)	Foreign key	Not null	Cat identification
6	duration_id	int (10)	Foreign key	Not null	Duration identification

level					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	level_id	int (10)	Primary key	Not null	Level identification
2	level_name	varchar (50)		Not null	Level's name

class					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	class_id	int (10)	Primary key	Not null	Class identification
2	class_name	varchar (50)		Not null	Class's name
3	start_date	date		Not null	First day at school
4	course_id	int (10)	Foreign key	Not null	Course identification
5	emp_id	int (10)	Foreign key	Not null	Employee identification
6	shift_id	int (10)	Foreign key	Not null	Shift identification
7	fee_amount_id	int (10)	Foreign key	Not null	Fee amount identification

programming_language					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	software_id	int (10)	Primary key	Not null	software identification
2	software_name	varchar (50)		Not null	software's name

category					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	cat_id	int (10)	Primary key	Not null	category identification
2	cat_name	varchar (50)		Not null	category's name

shift					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	shift_id	int (10)	Primary key	Not null	shift identification
2	shift_name	varchar (50)		Not null	shift's name

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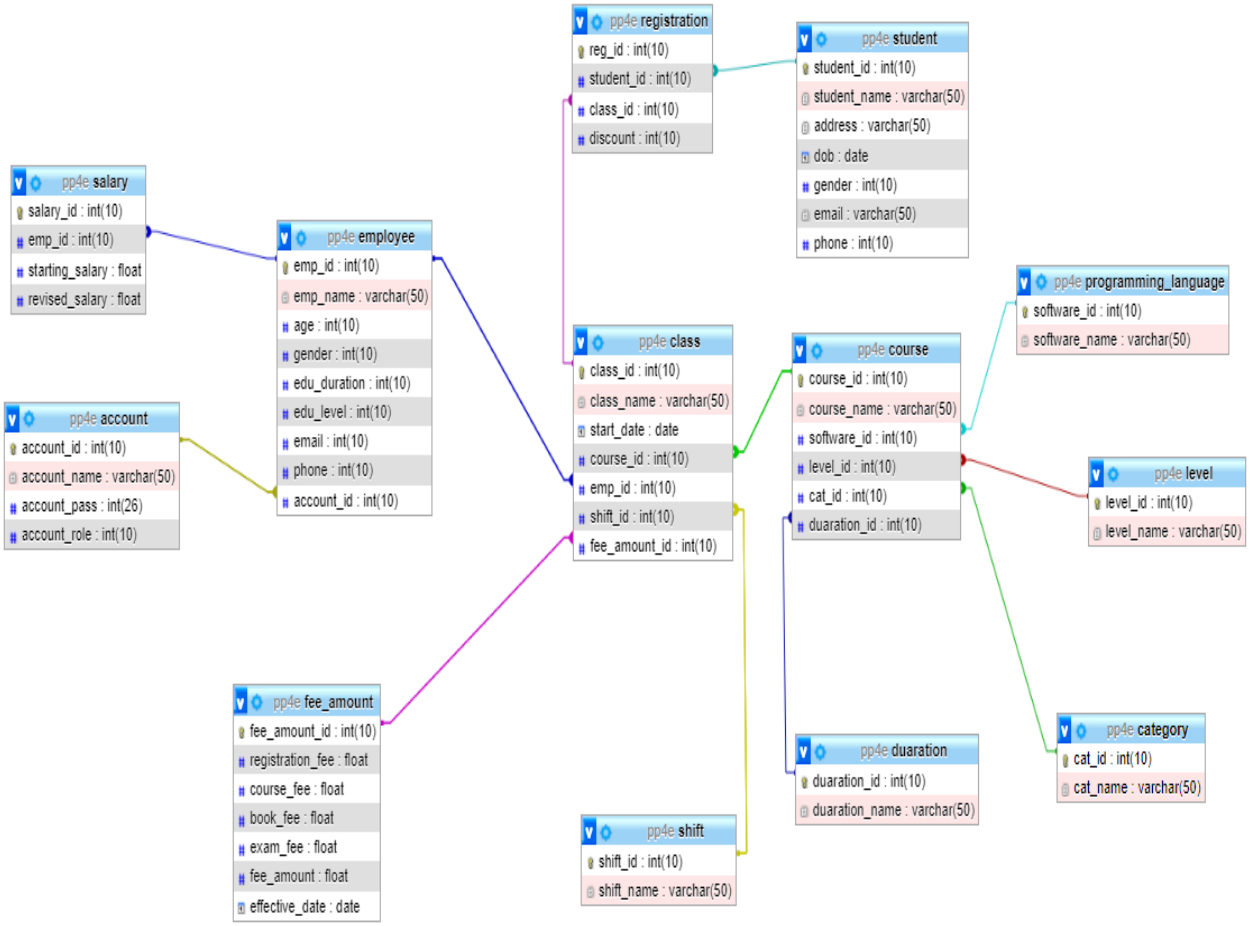
Date		

duaration					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	duaration_id	int (10)	Primary key	Not null	Duaration identification
2	duaration_name	varchar (50)		Not null	Duaration's name

fee_amount					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	fee_amount_id	int (10)	Primary key	Not null	Fee amount identification
2	registration_fee	float (10,2)		Not null	Registration fee
3	course_fee	float (10,2)		Not null	Course fee
4	book_fee	float (10,2)		Not null	Book fee
5	exam_fee	float (10,2)		Not null	Exam fee
6	fee_amount	float (10,2)		Not null	Fee amount
7	effective_date	date		Not null	Deadline date
registration					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	reg_id	int (10)	Primary key	Not null	Registration identification
2	student_id	int (10)	Foreign key	Not null	Student identification
3	class_id	int (10)	Foreign key	Not null	Class identification
4	discount	int (10)		Not null	Discount (%)
salary					
Serial	**Fields**	**Data type**	**Keys**	**Constrains**	**Description**
1	salary_id	int (10)	Primary key	Not null	Salary identification
2	emp_id	int (10)	Foreign key	Not null	Employee identification
3	starting_salary	float (10,2)		Not null	Basic salary
4	revised_salary	float (10,2)		Not null	Net salary



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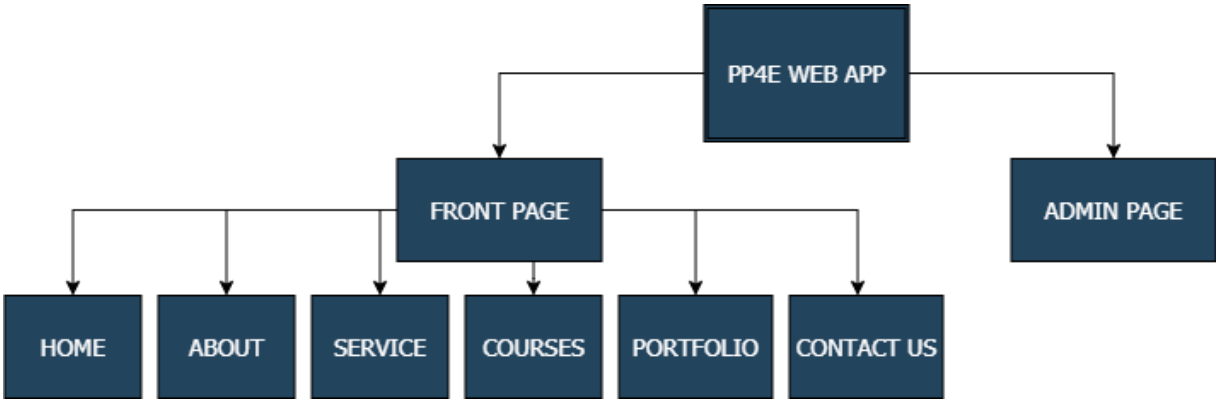
Site Map



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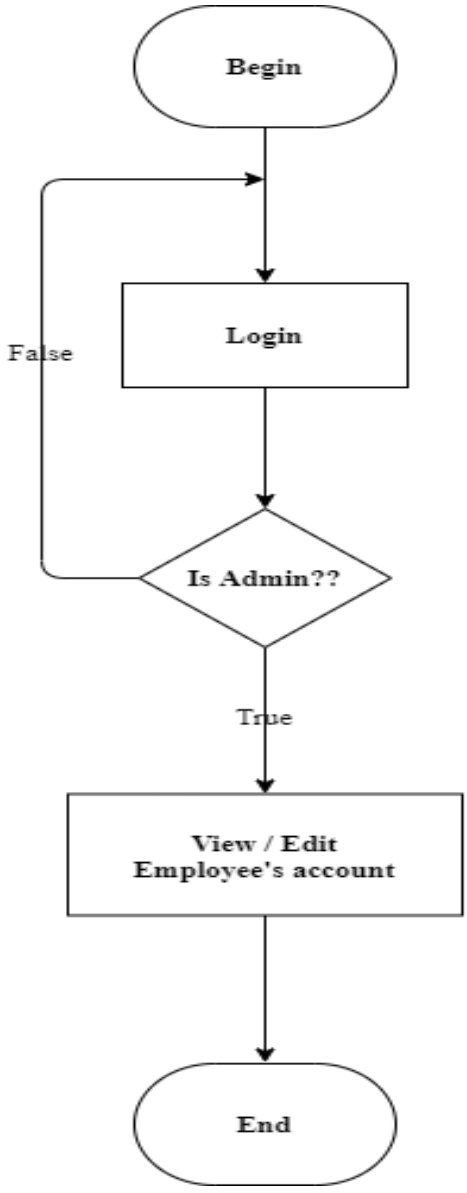
Date		

Algorithm

A. Admin



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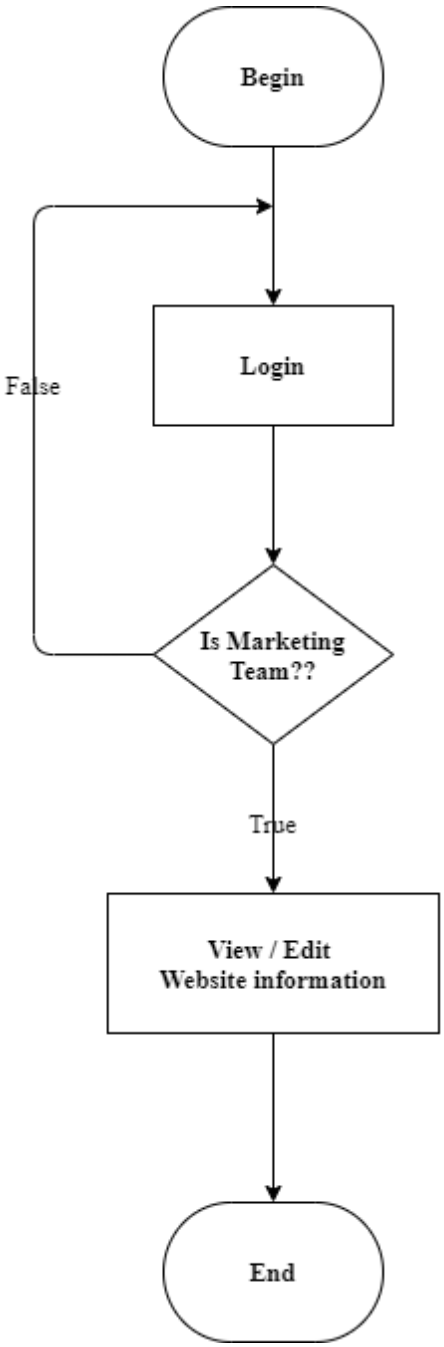
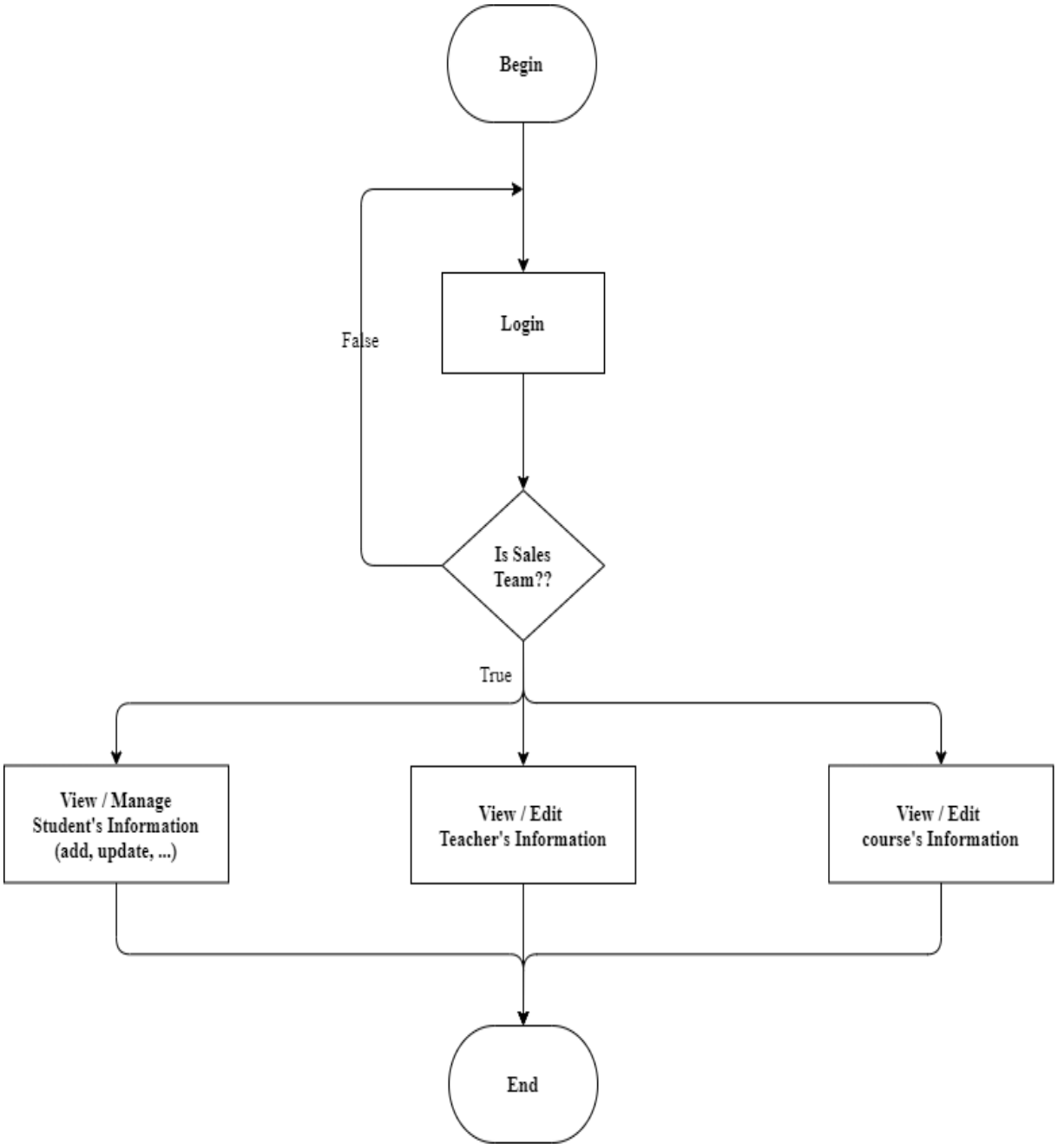
Date		

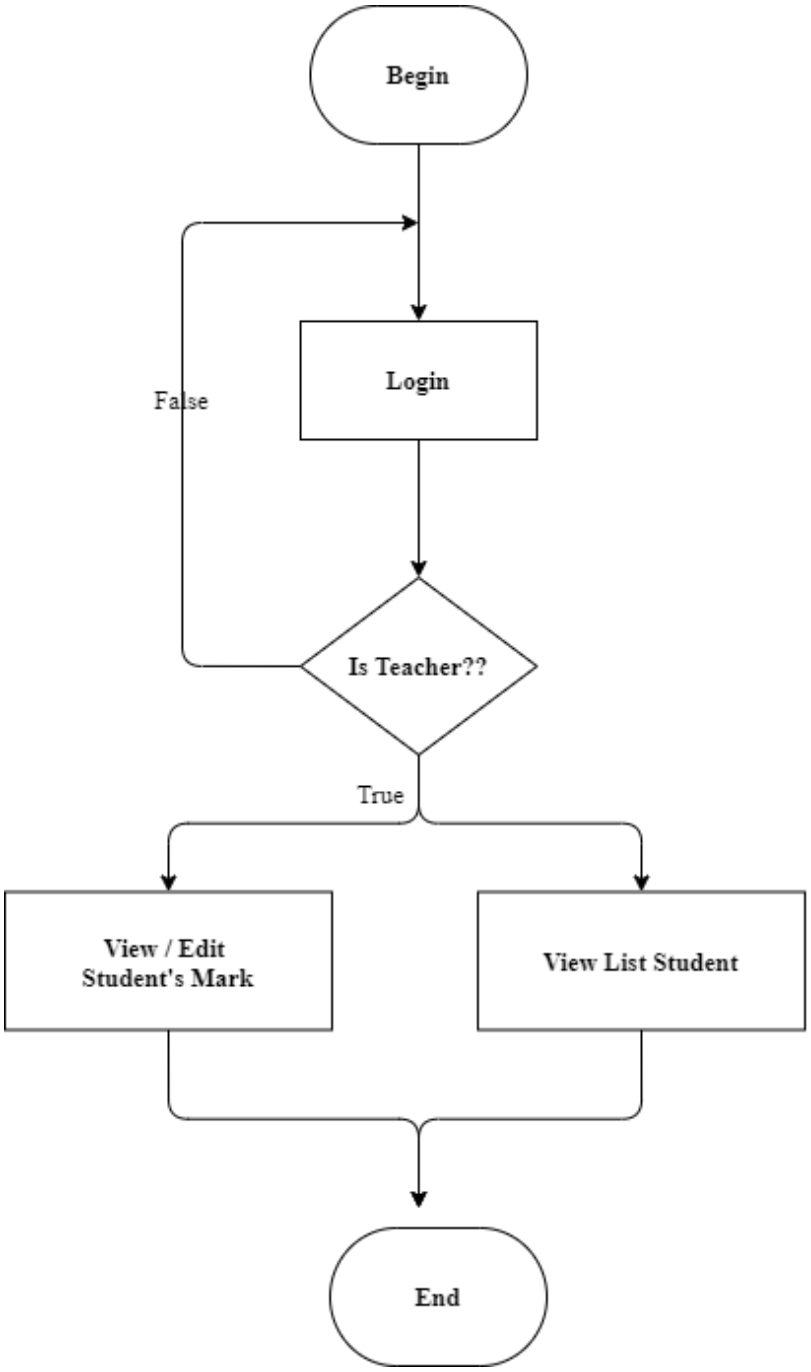
B. Marketing Team



C. Sales Team


Begin
Login
False
Is Sales Team??
True
View / Manage Student's Information (add, update, ...)
View / Edit Teacher's Information
View / Edit course's Information
End

D. Teacher



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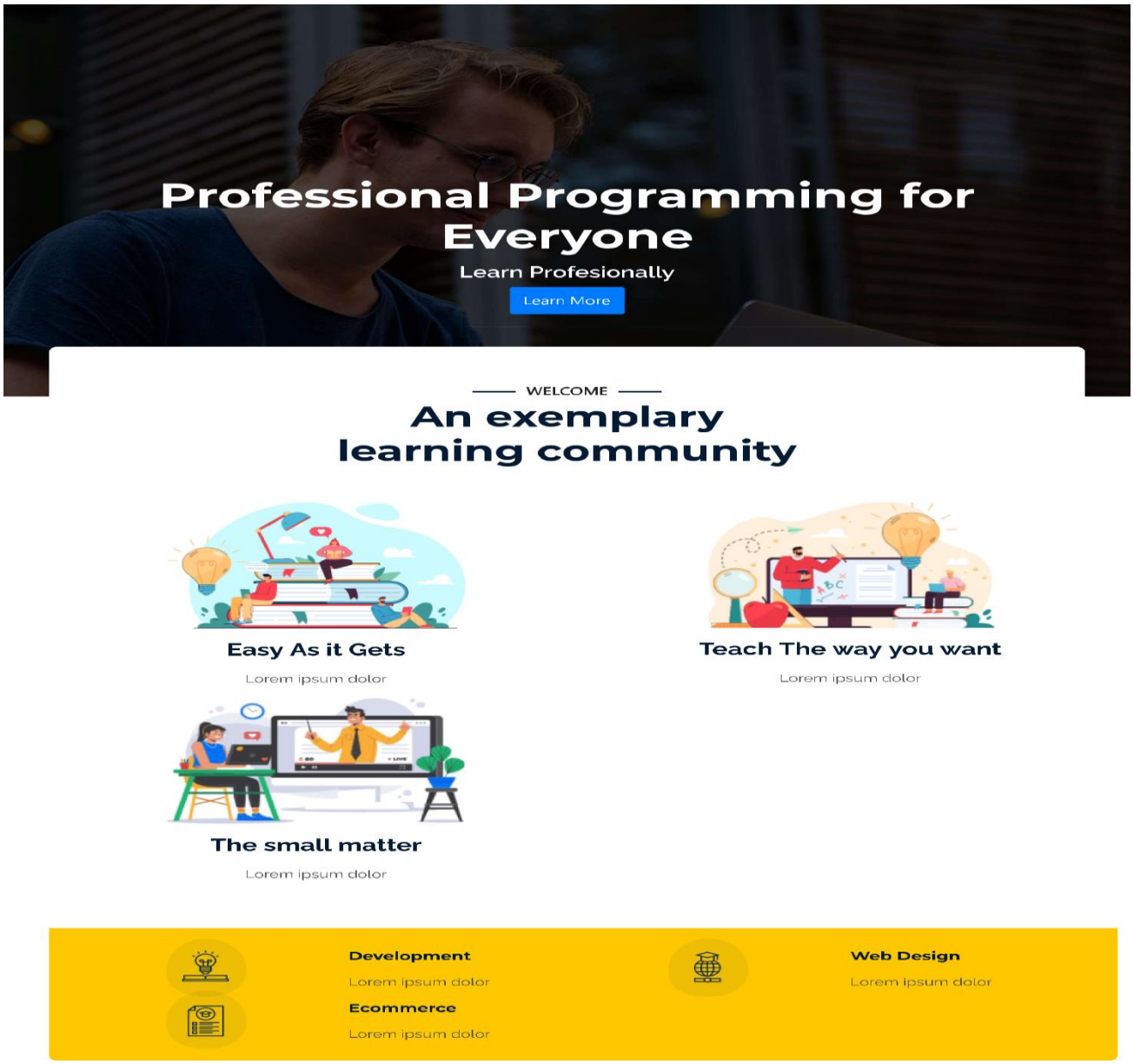
Date		

Review 03

Screen Shots

1. Home page



MY SERVICES

Ecommerce

I will design and develop ecommerce online store website.

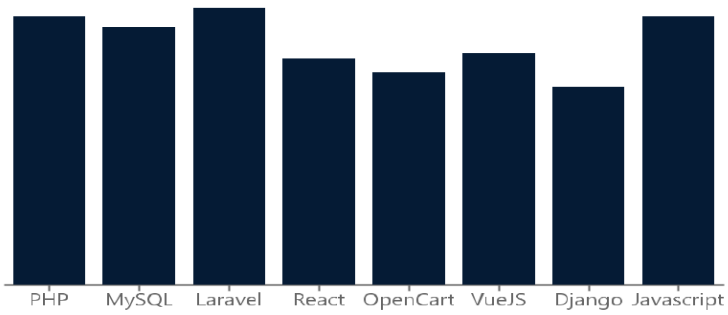
Web Design

Qualified web design and attractive effects which catches visitor's Eye.

Web Development

Clean and fresh issue free code to make your website dynamic perfectly.

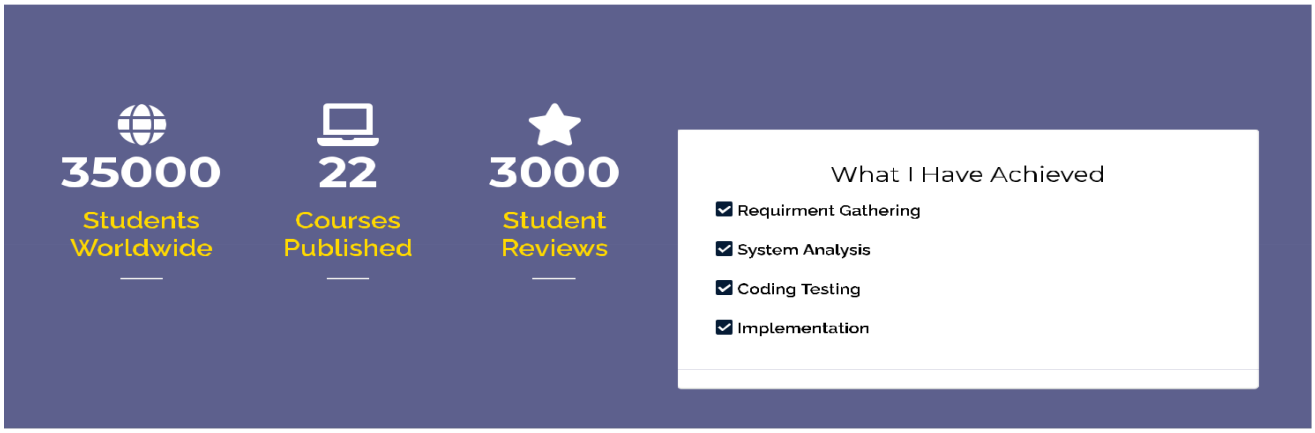
TECHNOLOGY USED



Hi! I'm Doe Nguyen. I'm a web developer with a serious love for teaching I am a founder of eLe easy Learning and a passionate Web Developer, Programmer & Instructor.

I am working online for the last 7 years and have created several successful websites running on the internet. I try to create a project-based course that helps you to learn professionally and make you fell as a complete developer easy learning exists to help you succeed in life

course that helps you to learn professionally and make you feel as a complete developer. easy learning exists to help you succeed in life. Each course has been hand-tailored to teach a specific skill. I hope you agree! Whether you're trying to learn a new skill from scratch or want to refresh your memory on something you've learned in the past, you've come to the right place.



RECENT PROJECTS

Project Name One

Some quick example text to build on the card title and make up the bulk of the card's content.

View More

Project Name Two

Some quick example text to build on the card title and make up the bulk of the card's content.

View More

Project Name Three

Some quick example text to build on the card title and make up the bulk of the card's

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Date		

content.

View More

MY COURSES

course detail 1

course detail

View Details

course detail 2

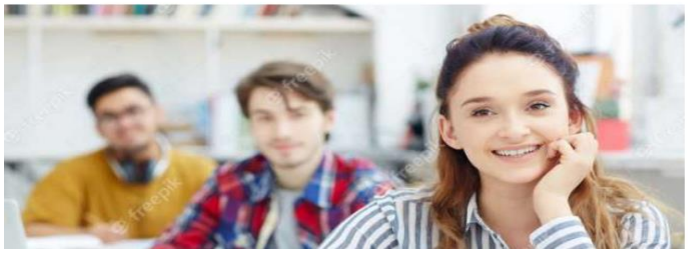
course detail

View Details

course detail 3

course detail

View Details



course detail 4

course detail

View Details

OUR VIDEOS

Hi! I'm Vinh Doe. I'm a web developer with a serious love for teaching I am a founder of Professional Programming for Everyone and a passionate Web Developer, Programmer & Instructor.

I am working online for the last 7 years and have created several successful websites running on the internet. I try to create a project-based course that helps you to learn professionally and make you fell as a complete developer. easy learning exists to help you succeed in life.

Each course has been hand-tailored to teach a specific skill. I hope you agree! Whether you're trying to learn a new skill from scratch or want to refresh your memory on something you've learned in the past, you've come to the right place.

TESTIMONIAL

Mohammed Ali

"The instructor was very enthusiastic and knowledgeable about the subject matter. She ke interesting and brought up good examples. The risk plan analysis and the concept of r stakeholders was most helpful."

ABOUT ME

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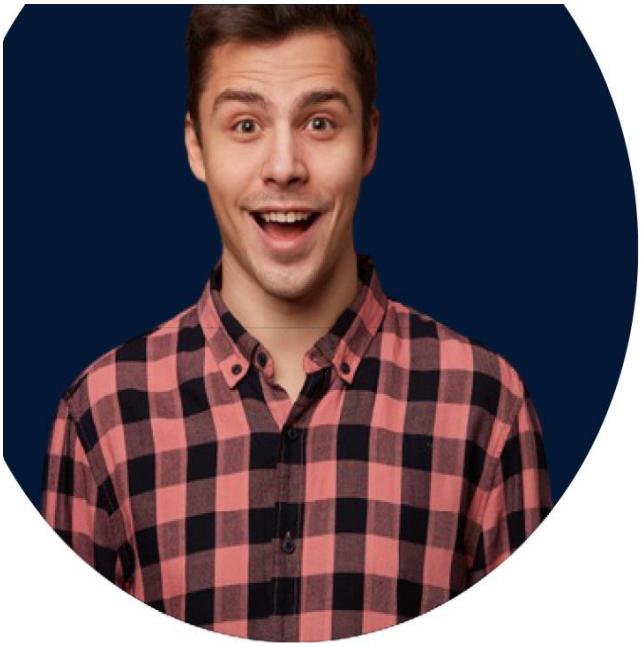
Signature		
Date		



HI There, I'm

Vinh Doe

Work as Web Developer!

Follow Us

Address

101 Bui Vien, Ward 15 District 1, Ho Chi Minh City
Email : Support@pp4e.com
Phone : (028)-247247

Information

About Me
Company Profile
Contact Us

Policy

Refund Policy
Terms And Condition
Privacy And Policy

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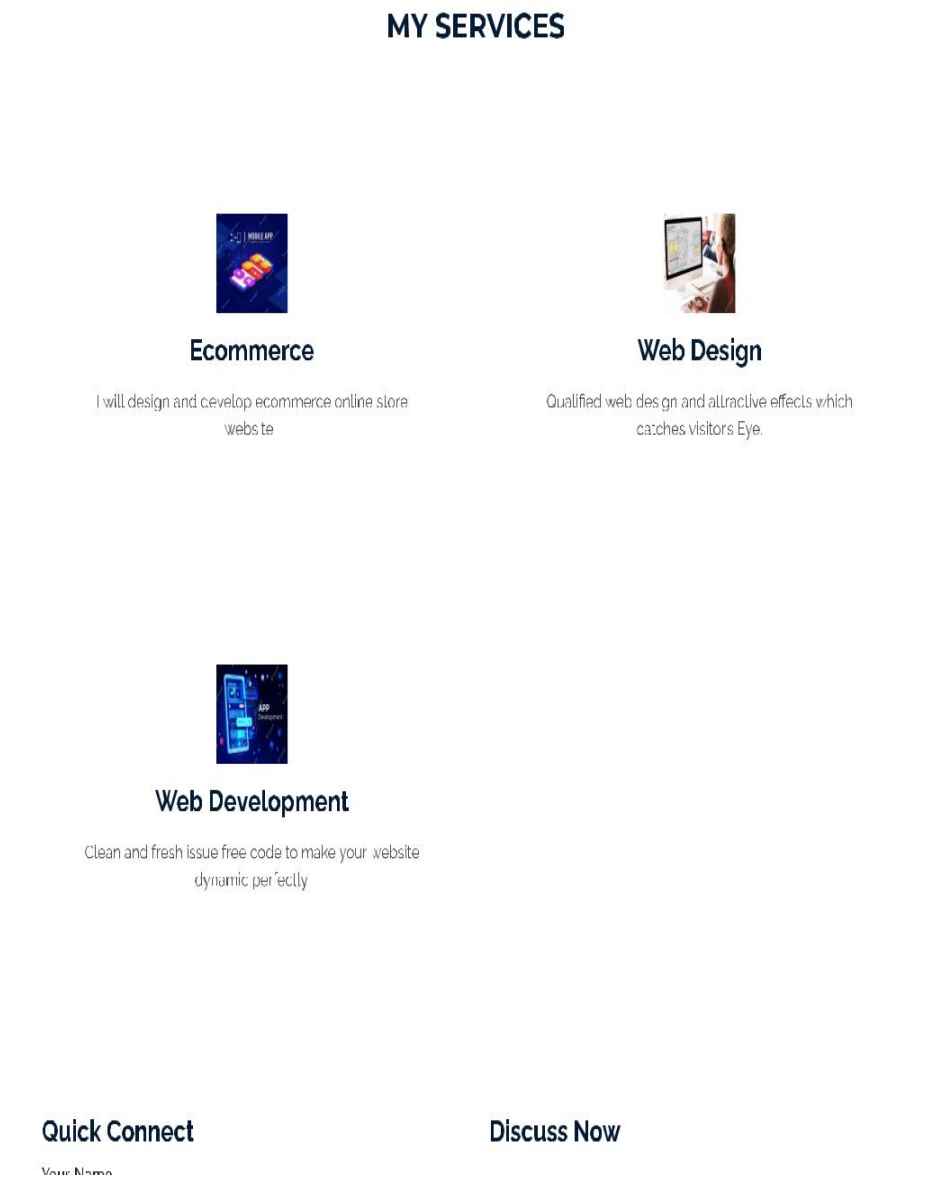
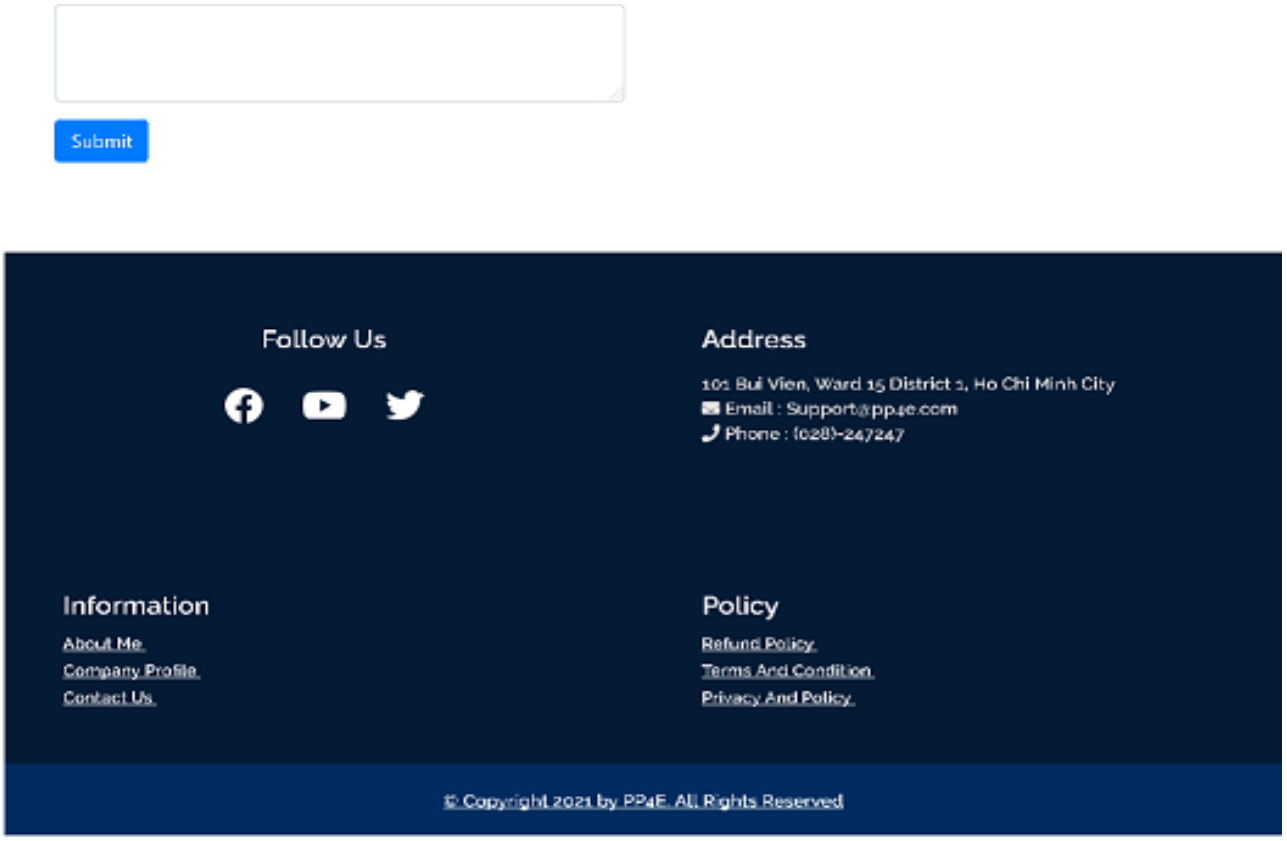
	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	Lê Thanh Nhân
Signature		
Date		

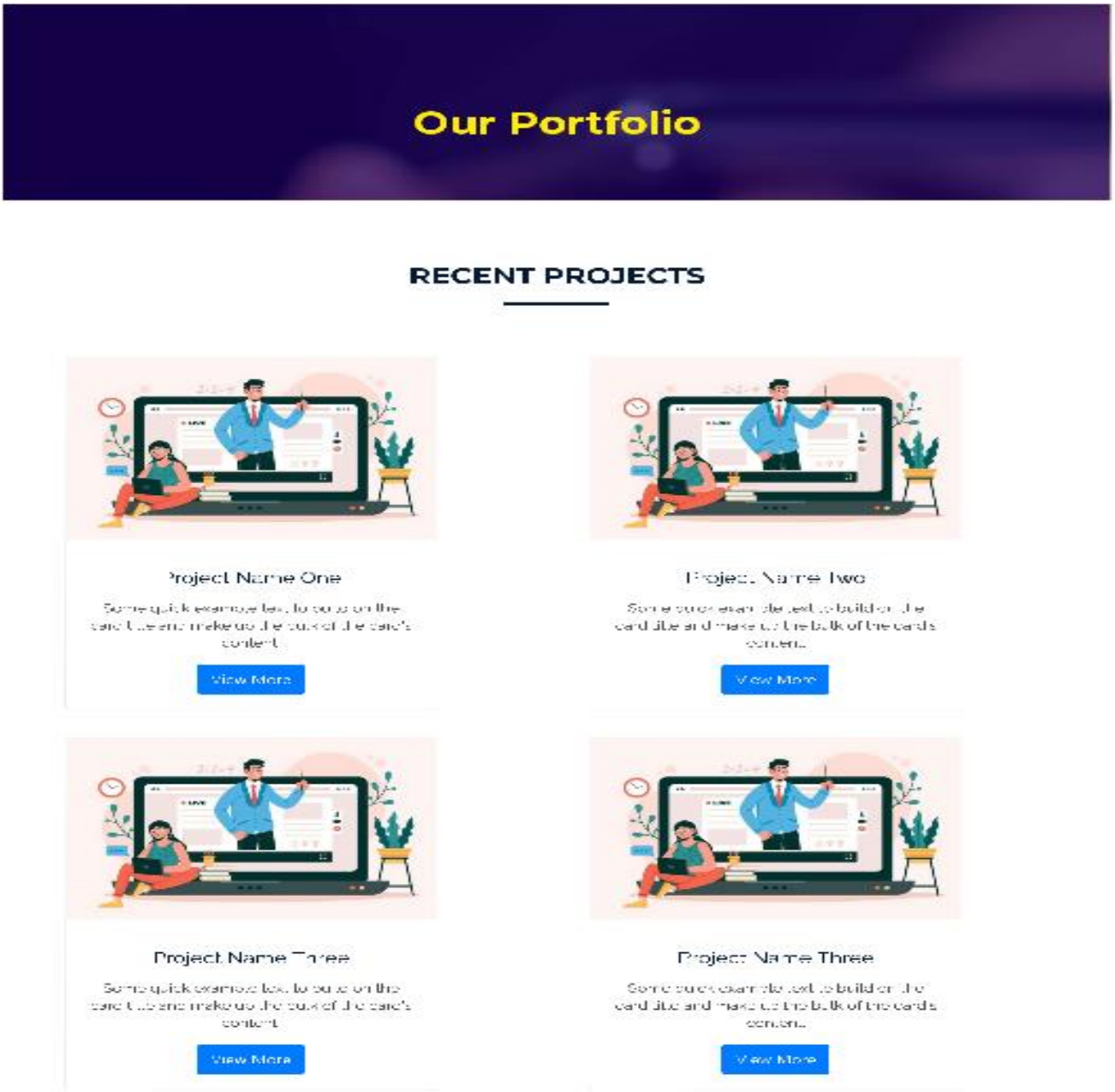
2. Service page



	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	Lê Thanh Nhân
Signature		
Date		


Submit
Follow Us
Address
101 Bui Vien, Ward 15 District 1, Ho Chi Minh City
Email : Support@pp4e.com
Phone : (028)-247247
Information
About Me
Company Profile
Contact Us
Policy
Refund Policy
Terms And Condition
Privacy And Policy
© Copyright 2021 by PP4E. All Rights Reserved

3. Portfolio page



	Prepared by (Student)	Approved by (Faculty)
	Project Group No:02	Lê Thanh Nhân
Signature		
Date		

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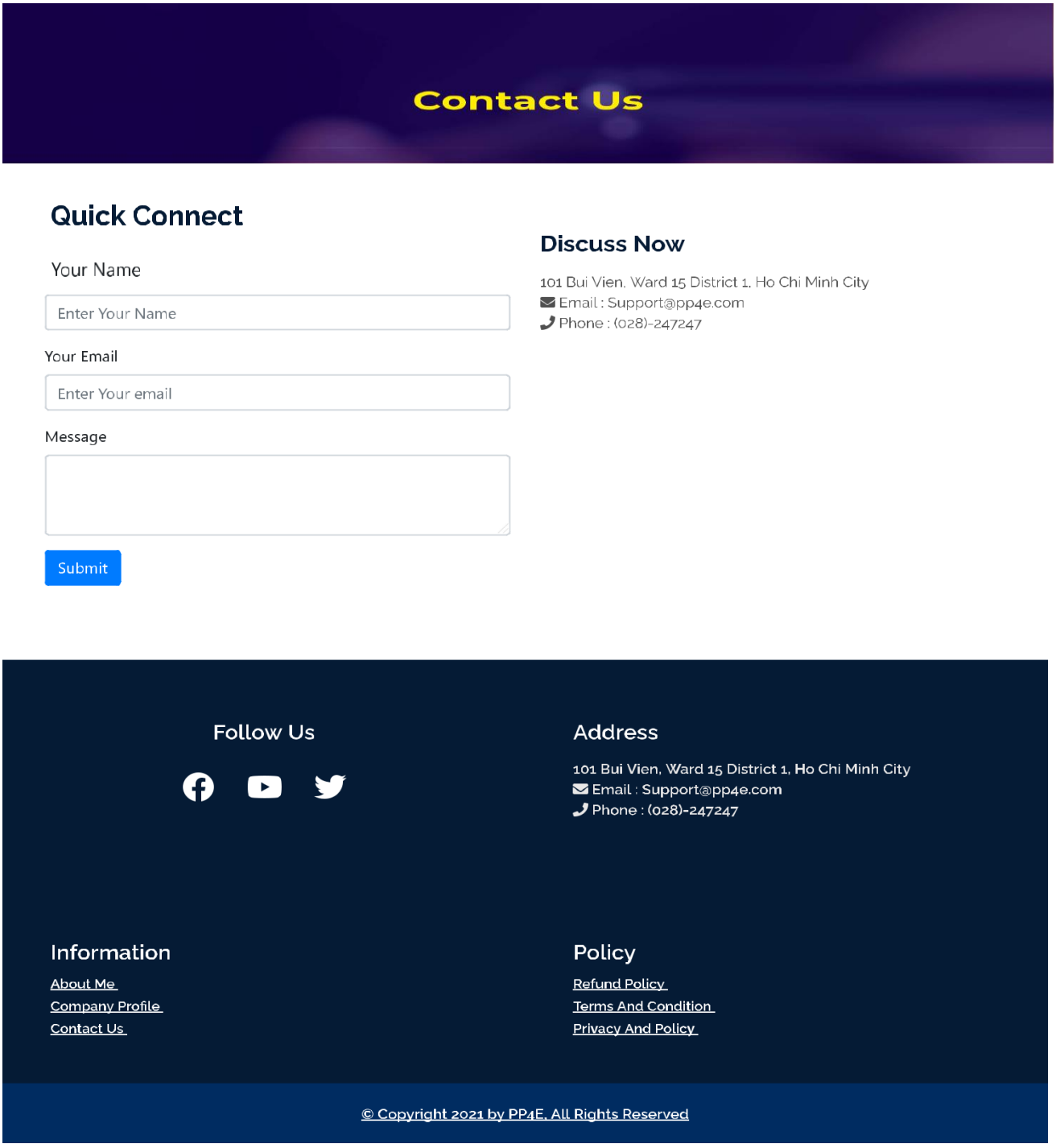
	Project Group No:02	Lê Thanh Nhân
Signature		
Date		

4. Contact page



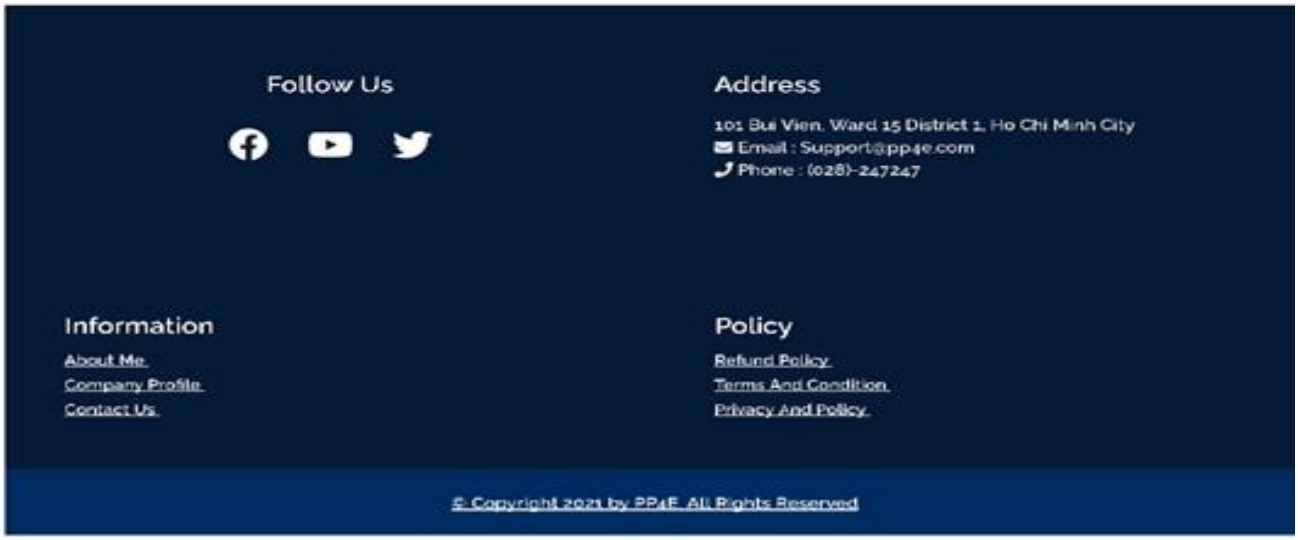
5. Course page

View Details

course detail5

course detail

View Details



6. About page

ABOUT ME

HI There, I'm
Vinh Doe
Work as

Who I Am

Hi! I'm Vinh Doe. I'm a web developer with a serious love for teaching I am a founder of PP4E and a passionate Web Developer, Programmer & Instructor.

I am working online for the last 7 years and have created several successful websites running on the internet. I try to create a project-based course that helps you to learn professionally and make you fell as a complete developer. easy learning exists to help you succeed in life.

Each course has been hand-tailored to teach a specific skill. I hope you agree! Whether you're trying to learn a new skill from scratch or want to refresh your memory on something you've learned in the past, you've come to the right place.

Education makes the world a better place. Make your world better with new skills.

Our Mission

Hi! I'm Vinh Doe. I'm a web developer with a serious love for teaching I am a founder of PP4E and a passionate Web Developer, Programmer & Instructor.

I am working online for the last 7 years and have created several successful websites running on the internet. I try to create a project-based course that helps you to learn professionally and make you fell as a complete developer. easy learning exists to help you succeed in life.

Each course has been hand-tailored to teach a specific skill. I hope you agree! Whether you're trying to learn a new skill from scratch or want to refresh your memory on something you've learned in the past, you've come to the right place.

Education makes the world a better place. Make your world better with new skills.

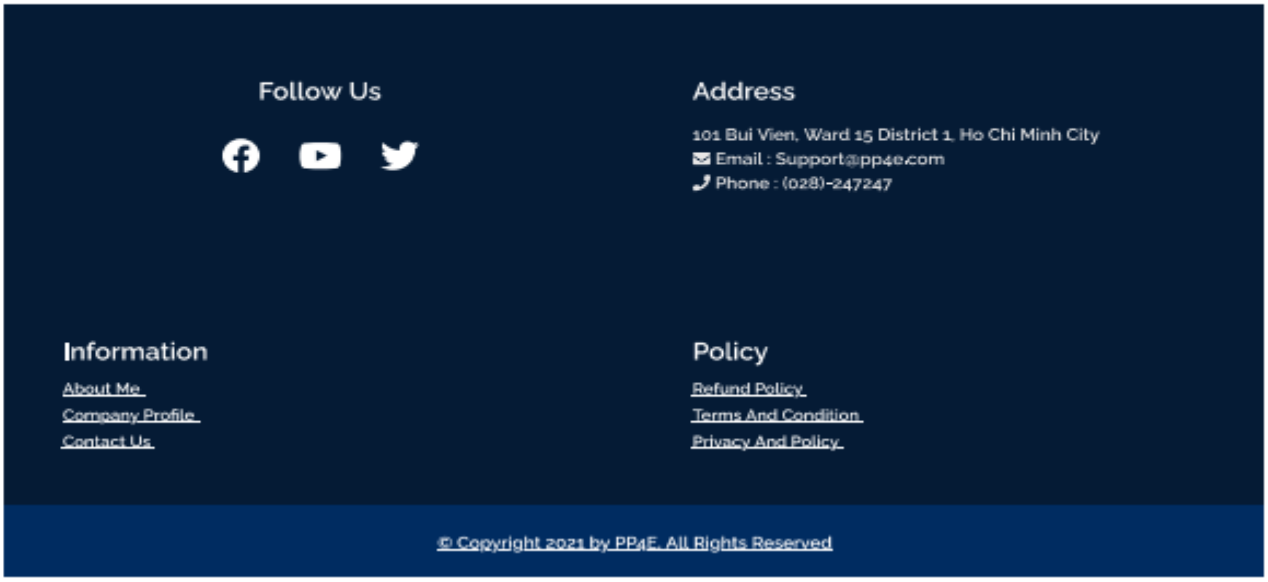
Our Vision

Hi! I'm Vinh Doe. I'm a web developer with a serious love for teaching I am a founder of PP4E and a passionate Web Developer, Programmer & Instructor.

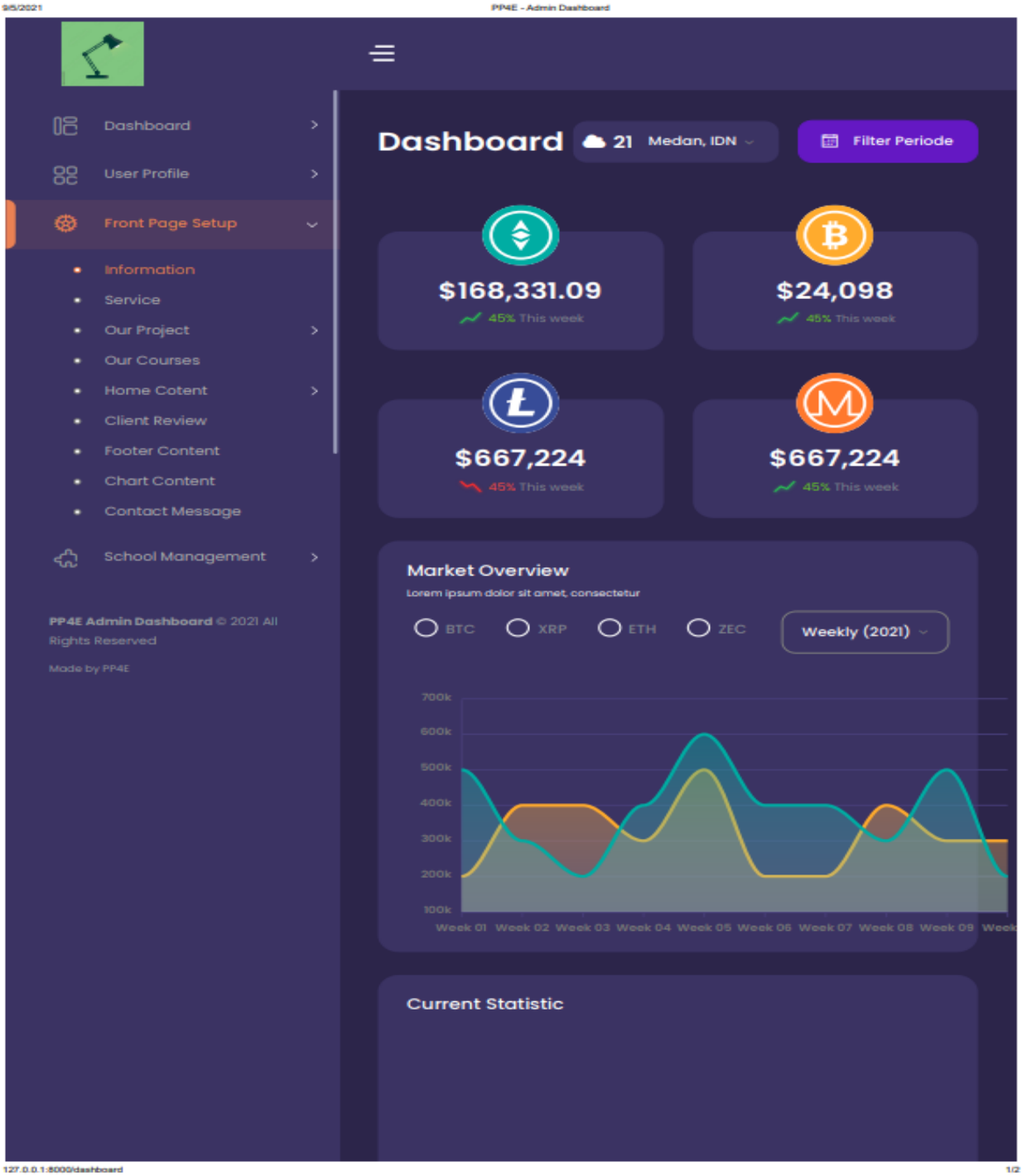
I am working online for the last 7 years and have created several successful websites running on the internet. I try to create a project-based course that helps you to learn professionally and make you fell as a complete developer. easy learning exists to help you succeed in life.

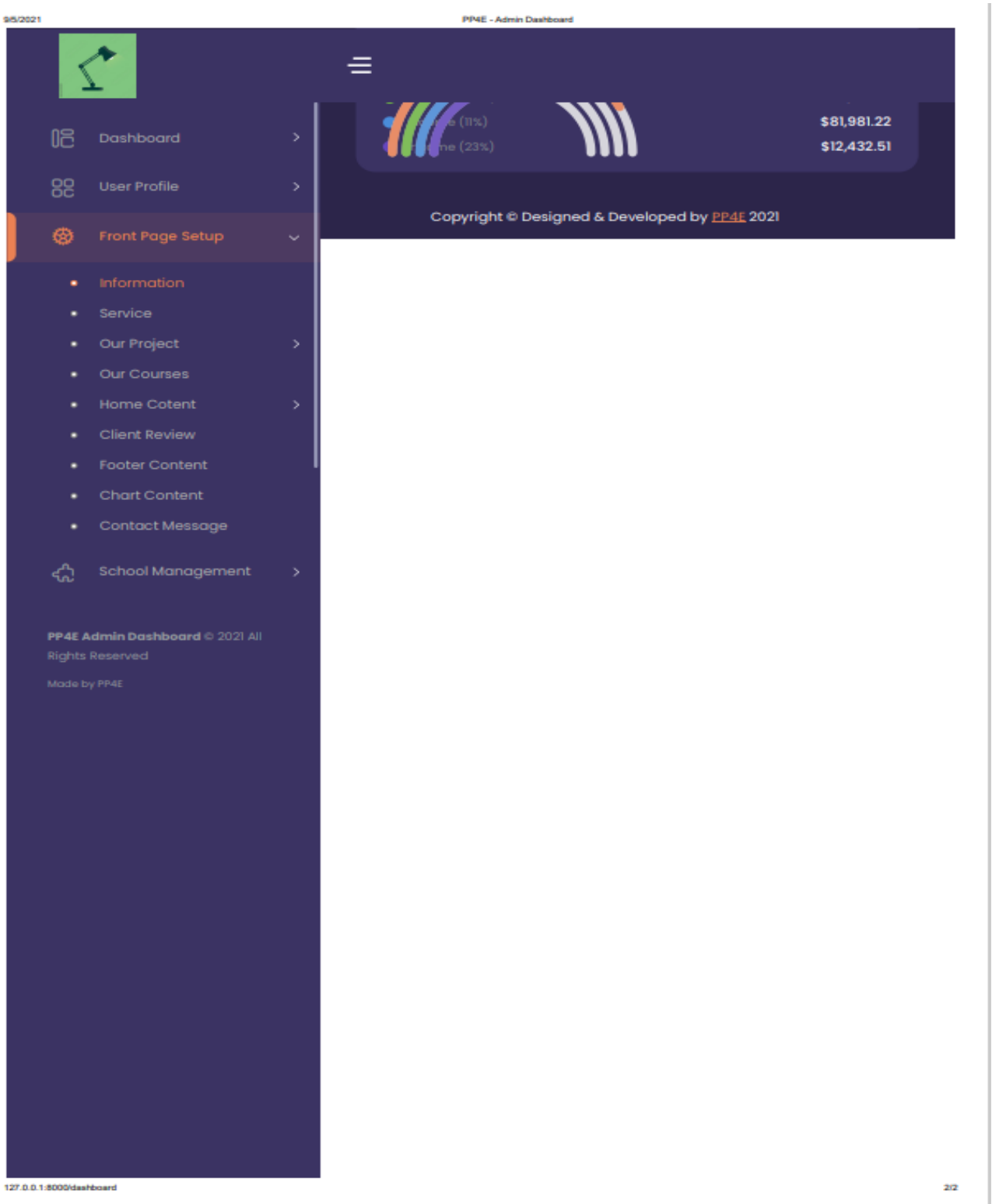
Each course has been hand-tailored to teach a specific skill. I hope you agree! Whether you're trying to learn a new skill from scratch or want to refresh your memory on something you've learned in the past, you've come to the right place.

Education makes the world a better place. Make your world better with new skills.



7. Admin page


9/5/2021
PP4E - Admin Dashboard
Dashboard
User Profile
Front Page Setup
Information
Service
Our Project
Our Courses
Home Cotent
Client Review
Footer Content
Chart Content
Contact Message
School Management
PP4E Admin Dashboard © 2021 All Rights Reserved
Made by PP4E
Dashboard
21 Medan, IDN
Filter Periode
$168,331.09
45% This week
$24,098
45% This week
$667,224
45% This week
$667,224
45% This week
Market Overview
Lorem ipsum dolor sit amet, consectetur
BTC
XRP
ETH
ZEC
Weekly (2021)
700k
600k
500k
400k
300k
200k
100k
Week 01
Week 02
Week 03
Week 04
Week 05
Week 06
Week 07
Week 08
Week 09
Current Statistic
127.0.0.1:8000/dashboard
1/2



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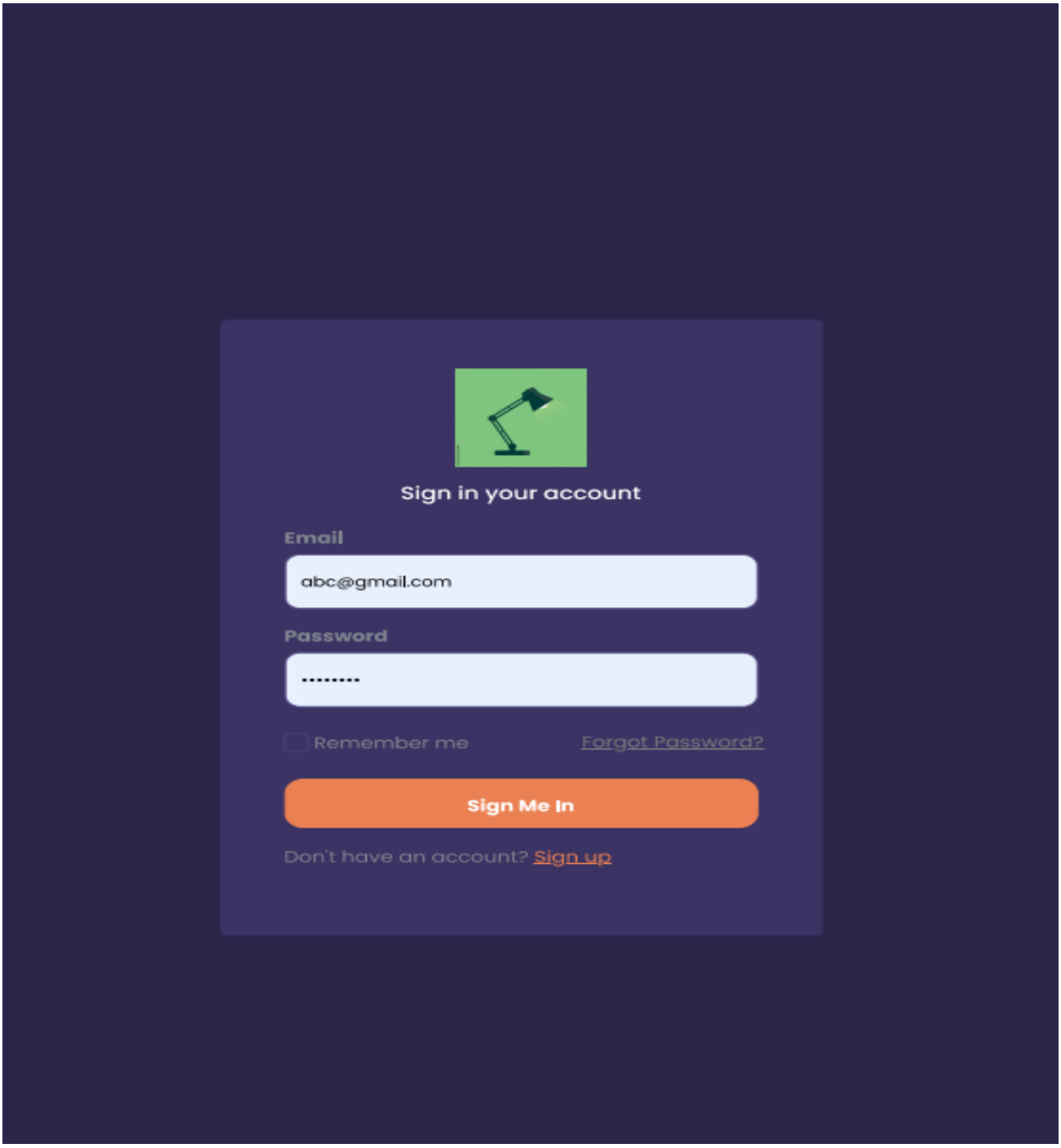
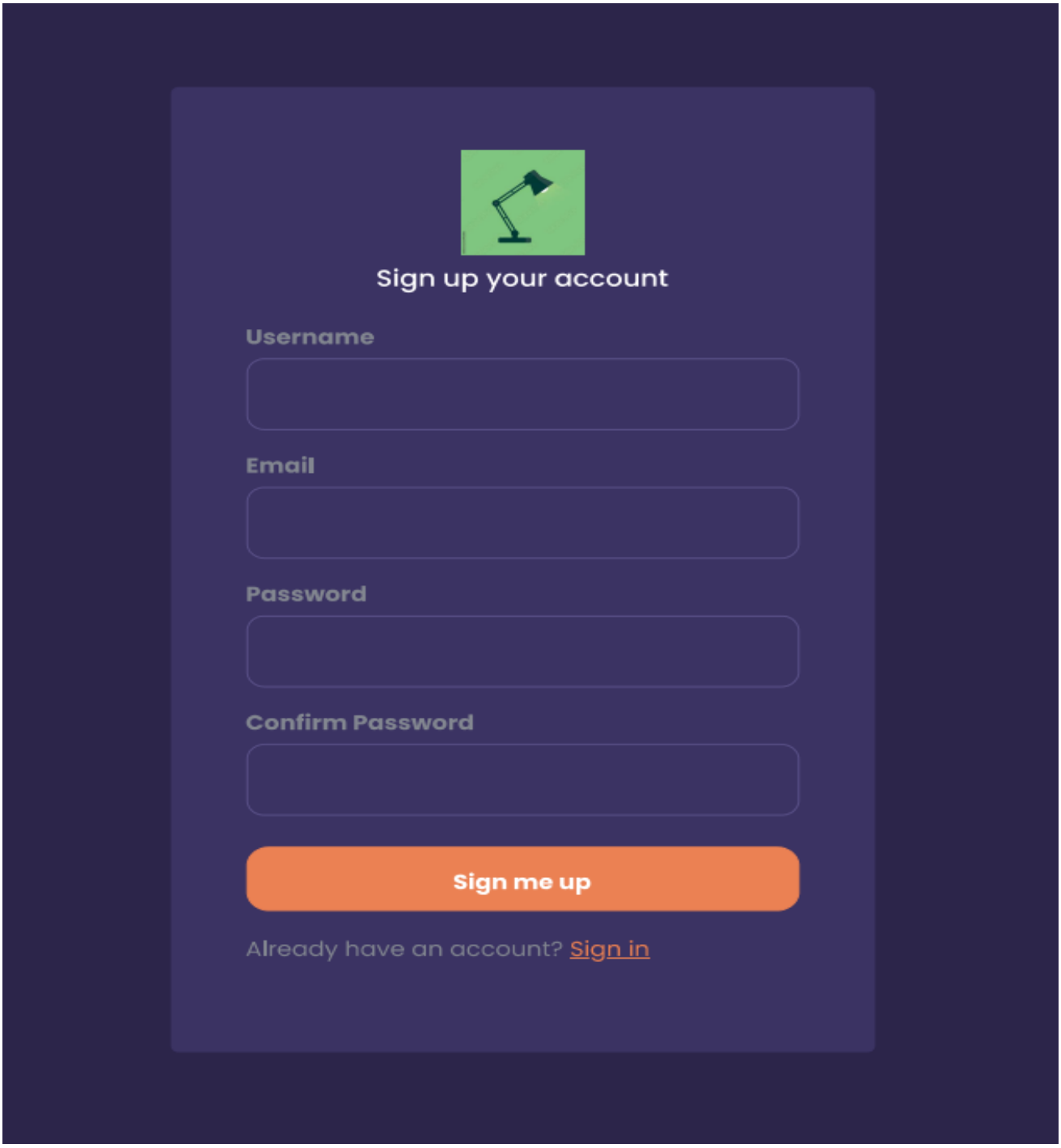
Signature		
Date		

8. Login page


Sign in your account
Email
abc@gmail.com
Password
Remember me
Forgot Password?
Sign Me In
Don't have an account? Sign up

9. Register page



Form Format							
Attribute Group	**Validation type**					**Submission Check List**	
	unique	**required**	**confirm**	**min**	**max**	**Success**	**Failure**
email	**x**	**x**	**x**			- update database - show a success message - redirect to the appropriate page	- show an error message
password		**x**	**x**	**x**	**x**		
profile avatar					**x**		
image		**x**			**x**		
category name	**x**	**x**					
all others		**x**					

Testing Document

Sr. No	Featured Test	Remarks
1	Are all components on Front Page integrated and working well?	
2	Does the Front Page work as a Single Page Application?	
3	Do all the API works well on the Front Page?	
4	Are all the navigation links working properly?	
5	Do all the CRUD forms work well with the database?	
6	Are the users allowed to their designed functional views?	
7	Do the applicate launch properly in all web browsers	

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Date		

Final Checklist

Sr. No	Expected Tested	Suggestions/ Remarks
1	Are all users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated?	
3	Is the Front Page as a single page application?	
4	Is the API linked well to the database?	
5	Is the application user-friendly?	
6	Is the website launched correctly on all web browsers?	
7	Are all the forms validated with proper criteria?	
8	Do all text links lead to the appropriate pages?	
9	Do all images links lead to the appropriate pages?	
10	Are all the images and links clearly visible and easily selectable	
11	Is the navigation sequences correct through all the Web pages on the site?	
12	Are the JavaScript codes working as expected in all click events?	
13	Do all the messages show correctly after each event?	
14	Do the views are appropriate for each user group in the admin page?	
15	Is there any spelling mistake on the Website?	

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Signature		
Date		

Task Sheet

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	**Nguyễn Huỳnh Quang Vinh**	Client	*Home*	Home Page Charts Projects Courses	9/5/2021	9/5/2021	3	
2			*About*	About	9/5/2021	9/5/2021	3	
3			*Services*	Services	9/5/2021	9/5/2021	3	
4			*Courses*	Courses	9/5/2021	9/5/2021	3	
5			*Portfolio*	Projects	9/5/2021	9/5/2021	3	
6			*Contatct US*	Contact	9/5/2021	9/5/2021	3	
7		Admin	*Login/Register*	User	9/5/2021	9/5/2021	2	
8			*Dashboard*	Student Registration	9/8/2021		3	
9			*Report*	Class Student Registration	9/8/2021		3	

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10			*Accounting*	Student Registration	9/8/2021		3	

1	**Huân**	Admin	*Course Level*	Level	9/7/2021		3	
2			*Software/Programming*	Programming_Language	9/7/2021		3	
3			*Category*	Category	9/7/2021		3	
4			*Shift*	Shift	9/7/2021		3	
5			*Duration*	Duration	9/7/2021		3	
6			*Course*	Course	9/7/2021		3	
7			*Teacher*	Teacher	9/7/2021		3	
8			*Teacher Salary*	Salary	9/7/2021		3	
9			*Teacher Assignment*		9/7/2021		3	

1	**Phúc**	Admin	*Fee Category*	Fee_Category	9/7/2021		3	
2			*Fee Amount*	Fee_Amount	9/7/2021		3	
3			*Class*	Class	9/7/2021		3	
4			*Student*	Student	9/7/2021		3	
5			Student Registration	Registration	9/7/2021		3	

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:02	Lê Thanh Nhân
Signature		
Date		