

# Application Development

**Let's start!**



Presented by Olivia Wilson



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# Clearly state the requirements

FPT HR training system can be used to manage student accounts, manage instructors, manage course catalogs, manage courses, manage topics, assign topics to courses, and assign topics to courses. assign instructors to topics, assign students to courses. This is the system used by the human resources department. We have three roles in this system, admin, training officer and coach. A brief description of those roles is as follows:

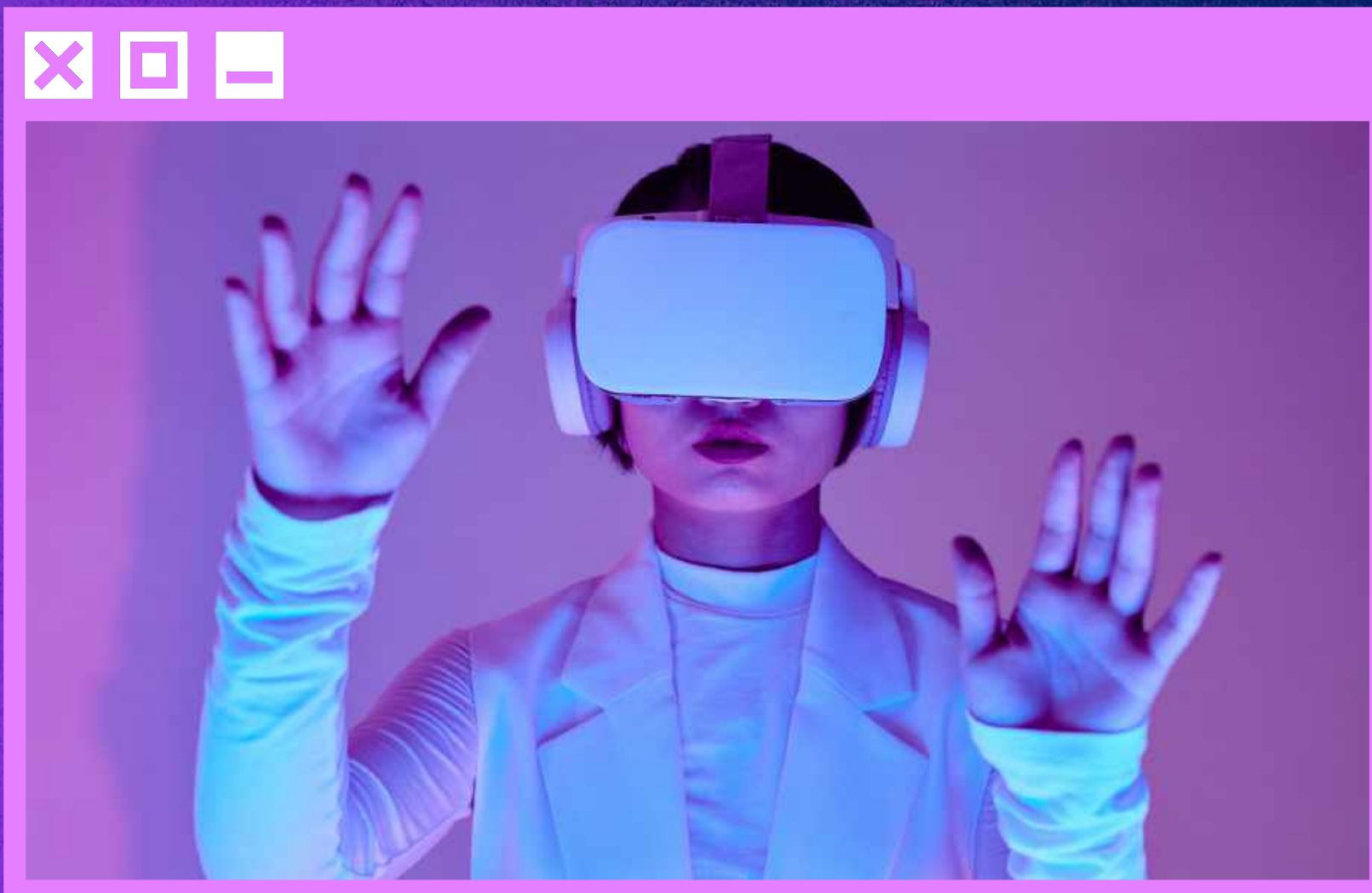




## An administrator's role



Can login to the system through the first page of the application  
Can create/edit/delete new user account for trainer/training staff  
and assign/change(if existing user) username and a password





## Interactive Device



A registered training staff, who is assigned a user name and a password by the administrator logs in can create trainee accounts by entering details like trainee name, trainee accounts, age, date of birth, education, main programming language, TOEIC score, experience details, department, location, etc.

After entering successfully all details for trainees, his/her details are then stored in the database. The training staff is given a list of trainees for him to view and search. From the list of trainees, he can also search by trainee account, programming language, TOEIC score...

Can update, delete trainee accounts





## Interactive Device



Can manage course categories such as searching, adding, updating and deleting course categories. Course category includes the information such as course category name and descriptions.

Can manage courses such as searching, adding, updating and deleting courses. Course includes course name and description.

Can add topics such as topic name and topic descriptions into a course, add courses into a category.

Can manage trainer profile such as adding, updating and deleting the information: Trainer name, External or Internal Type, working place, telephone, and email address.

Can assign trainer to a topic.

Can assign trainee to a course.



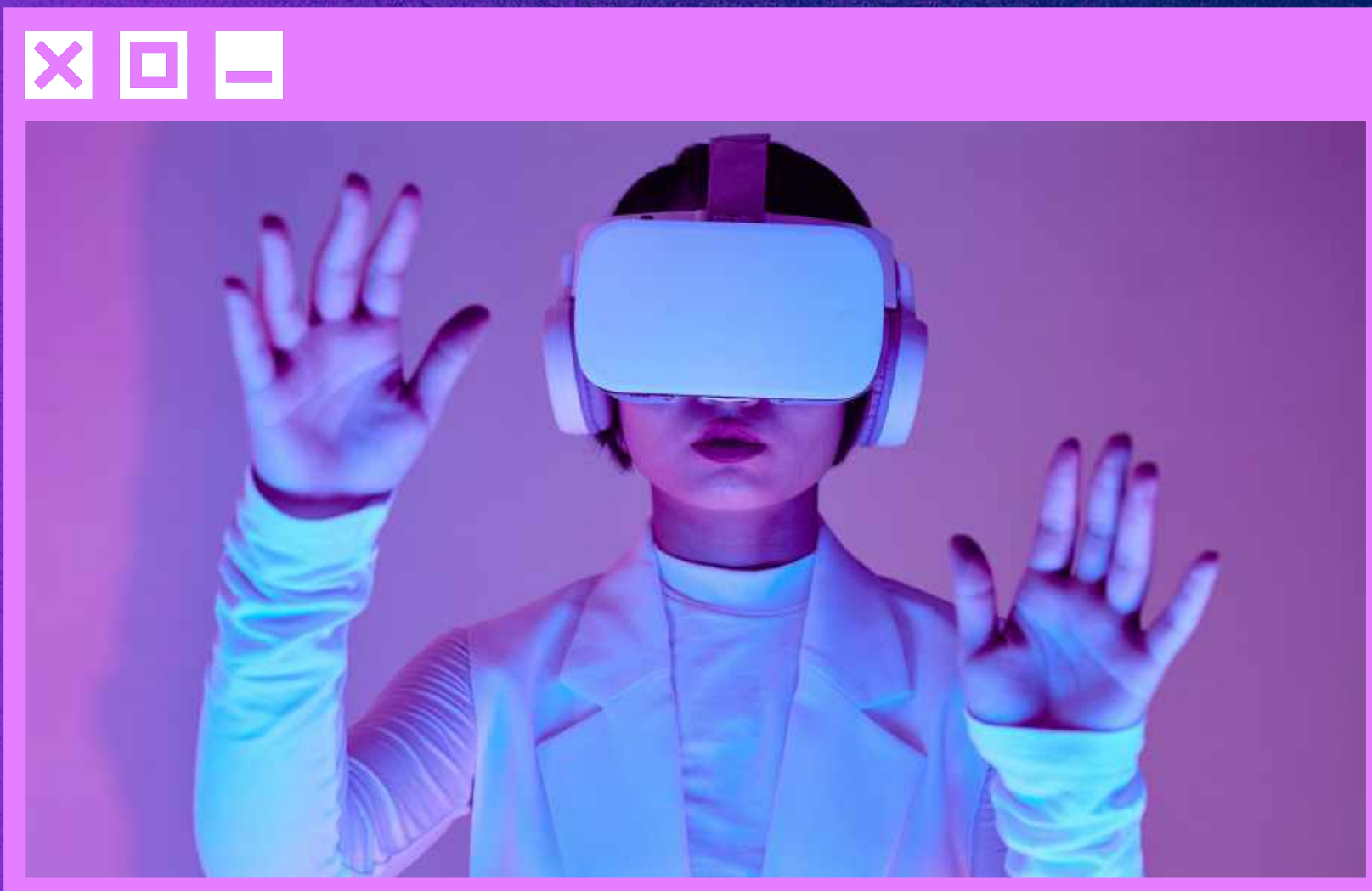


## A trainer's role



In the same system, the trainer who have been registered by the administrator can login and can update his profile such as Trainer name, External or Internal Type, education, working place, telephone, and email address.

Can view courses which have a topic he is assigned to.





# List the steps to implement the project

Design the theme

Database design







Design the theme



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localhost:5183/Account

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COREUI

DashboardNEW

MANAGEMENT

Accounts

Categories

Courses

Topic

☰Hi: thao12@gmail.com

Account / Account

Add new account

ID	Username	Name	Role	Gender	Email	Address	Date of birth	Phone	Last login	Last logout	CreatedAt
1	Thao	le thao	adminactor	male	thao12@gmail.com	ha noi	01/01/2024 12:00:00 SA	0395853790	01/01/2024 12:00:00 SA	01/01/2024 12:00:00 SA	NULL
3	Thao Phuong	le project	adminactor	male	lephuongthaoit902@gmail.com	Hà N?i	01/04/2024 12:00:00 SA	0903040506	08/04/2024 5:13:01 CH	08/04/2024 5:13:01 CH	08/04/2024 5:13:01 CH

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localhost:5183/account/add

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COREUI

DashboardNEW

MANAGEMENT

Accounts

Categories

Courses

Topic

Hi :

Account / Add New Account

Add new account

Role

adminactor

Password

Enter password

Last Name

Enter last name

Address

Enter like count

Phone

Enter poster

Save

Cancel

Username

Enter username

First Name

Enter first name

Status

Male

Email

Enter Email

Date Of Birth

nn/mm/yyyy

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Dashboard NEW

MANAGEMENT

Accounts

Categories

Courses

Topic

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Hi :

Account / Edit New Account

# Edit account

Role

adminactor

▼

Password

123456789

Last Name

thao

Address

ha noi

Phone

0395853790

Save

Cancel

Username

Thao

First Name

le

Gender

Male

Email

thao12@gmail.com

Date Of Birth

01/01/2024

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localhost:5183/Account

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COREUI

DashboardNEW

MANAGEMENT

Accounts

Categories

Courses

Topic

☰Hi :

Account / Account

localhost:5183 cho biết  
Deleted

OK

Add new account

	Gender	Email	Address	Date of birth	Phone	Last login	Last logout	CreatedAt	UpdatedAt	Action
nactor	male	thao12@gmail.com	ha noi	01/01/2024 12:00:00 SA	0395853790	01/01/2024 12:00:00 SA	01/01/2024 12:00:00 SA	NULL	NULL	<div>Edit</div> <div>Delete</div>
nactor	male	lephuongthaoit902@gmail.com	Hà N?i	01/04/2024 12:00:00 SA	0903040506	08/04/2024 5:13:01 CH	08/04/2024 5:13:01 CH	08/04/2024 5:13:01 CH	NULL	<div>Edit</div> <div>Delete</div>

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# Category

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COREUI

🏠 Dashboard NEW

MANAGEMENT

✎ Accounts

✎ Categories

✎ Courses

✎ Topic

☰ Hi :

Category / Create

Add new Category page !

Back to List Categories

Create Category

Name

Status

Active

PosterImage

Chọn tệp

Không tệp nào được chọn

Description

Save

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MANAGEMENT

Accounts

Categories

Courses

Topic

Category / Update

## Update Category page !

[Back to List Categories](#)

### Update Category

Name

IoT

Description

ok

Status

Active

PosterImage

Chọn tệp Không tệp nào được chọn

Save





# This is Category page !

Add new Category


Find by Name:

-- Status -- ▾

Filter and Search

[Back To list](#)

Delete Successfully

ID	Name	Image	Description	Status	Created At	Updated At	Action	
1006	S?n ph?m 2		pl	Active	03/04/2024 7:36:18 SA		<div>Edit</div>	<div>Delete</div>



# Course

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COREUI

DashboardNEW

MANAGEMENT

Accounts

Categories

Courses

Topic

Hi :

Home / Add New Courses

Add new Courses page !

Back to List Courses

Create Course

Name

Start date

nn/mm/yyyy

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Category

S?n ph?m 2

End date

nn/mm/yyyy

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Description

Status

Active

Image

Chọn tệpKhông tệp nào được chọn

Save



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localhost:5183/Courses/Update/1003

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COREUI

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Dashboard

NEW

MANAGEMENT

✎

Accounts

✎

Categories

✎

Courses

✎

Topic

☰

Hi :

Home / Update Course

Update Course page !

Back to List Categories

Update Course

Name

SP1

CategoryId

S?n ph?m 2

Status

Active

Image

Chọn tệp

Không tệp nào được chọn

Description

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Save



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localhost:5183/courses

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COREUI

Dashboard

NEW

MANAGEMENT

Accounts

Categories

Courses

Topic

Hi :

Home / Courses



localhost:5183 cho biết

Successfully

OK

This is Courses page !

Add new Courses

ID	Name	Category	Image	Description	Start Date	End Date	Status	Actions
1	Computing project	IoT		ok	03/03/2024 12:00:00 SA	31/03/2024 12:00:00 SA	Active	<div>Edit</div> <div>Delete</div>
1005	Computing project6	S?n ph?m 2		okok	10/04/2024 12:00:00 SA	26/04/2024 12:00:00 SA	Active	<div>Edit</div> <div>Loading...</div>

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# Topic

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COREUI

Hi : 

Dashboard NEW

MANAGEMENT

📝

Accounts

📝

Categories

📝

Courses

📝

Topic

Topic / Add New Topic

Add new topic

Course

Computing project

▼

Status

Active

Description

Enter description

Name

Enter topic name

Poster

Chọn tệp

Không tệp nào được chọn

Save

Cancel

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COREUI

🕒 Dashboard

NEW

MANAGEMENT

✎ Accounts

✎ Categories

✎ Courses

✎ Topic

☰ Hi: thao12@gmail.com

Topic / Edit Topic

localhost:5183 cho biết  
Deleted

OK

Add new topic

#	Name	Course	Status	Poster	Description	Action
1	1	1	active	poster	1	<div>Edit</div> <div>Delete</div>
2	2	1003	active	poster	2	<div>Edit</div> <div>Delete</div>

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A futuristic robotic hand with a white and gold finish, set against a purple and blue background. The hand is positioned on the left side of the frame, with its fingers slightly curled. The background is a gradient of purple and blue, with some light rays or beams of light visible. The text "Database design" is written in a white, sans-serif font on the right side of the image.

# Database design



Course	
⚡ Id	
CategoryId	
Name	
Description	
Image	
LikeCourse	
StartCourse	
Status	
CreatedAt	
UpdatedAt	
DeletedAt	
StartDate	
EndDate	

Categories	
⚡ Id	
Name	
Description	
PosterImage	
ParentId	
Status	
CreatedAt	
UpdatedAt	
DeletedAt	

Roles	
⚡ Id	
Name	
Description	
Status	
CreatedAt	
UpdatedAt	
DeletedAt	

TrainerTopic	
UserId	
TopicId	
CreatedAt	
UpdatedAt	

TraineeCourse	
UserId	
CourseId	
CreatedAt	
UpdatedAt	

Users	
⚡ Id	
RoleId	
Username	
Password	
Email	
Phone	
Address	
FullName	
FirstName	
LastName	
Birthday	
Gender	
Education	
ProgramingLanguage	
ToeicScore	
Skills	
IPClient	
LastLogin	
LastLogout	
CreatedAt	
UpdatedAt	
DeletedAt	

Topics	
⚡ Id	
CourseId	
Name	
Description	
Status	
Documents	
AttachFiles	
TypeDocument	
Poster	
CreatedAt	
UpdatedAt	
DeletedAt	



# Achievements and limitations

**77%**





# Achievements

User account creation: The system allows the administrator to log in and create, edit, and delete user accounts for trainers and training staff. This helps efficiently manage user accounts and access rights to the system.

Trainer profile management: The system allows for the management of trainer's personal information, including name, type (external or internal), education level, workplace, telephone, and email address. This helps in updating the trainer's personal information and easy communication.

Course category management: The system allows for the management of course categories, including searching, adding, updating, and deleting course categories. This helps in organizing and managing courses in an organized and easy manner.

Course management: The system allows for the management of courses, including searching, adding, updating, and deleting courses. This helps in managing and providing detailed information about the available courses in the system.

Assignment of trainers to topics: The system allows for the assignment of trainers to course topics. This helps in managing and organizing the teaching by specific trainers.



# Limitations

Lack of lecture management features: The system lacks features for managing and uploading lecture content. This may limit the ability to provide lecture content to trainees and manage teaching content.

Lack of trainee assessment and feedback features: The system lacks features that allow trainees to assess and provide feedback on courses and trainers. This may limit the ability to effectively evaluate the courses and improve the training process.

Lack of training planning features: The system lacks features that allow for planning and managing the training process for each trainee. This may limit the ability to track training progress and create a reasonable schedule for trainees.

Lack of automated reporting features: The system lacks features for automatically generating reports on training progress, trainee achievements, and other relevant information. This may limit the ability to generate reports quickly and accurately.



# THANK YOU!

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