

PROJECT TRAINING FPT

VERSION UPDATE

About Project?

Welcome to our new project: a web-based training management system for FPT Co. This system is designed to streamline internal training programs, empowering employees and enhancing organizational learning. With functionalities tailored for administrators, training staff, and trainers, our goal is to create a user-friendly platform that optimizes the training process and fosters continuous development within the company.

Requirements

The project involves developing a web-based training management system for FPT Co. The system will enable the HR department to manage internal training programs efficiently. Key features include user account management, course and topic management, trainer assignment, and trainee enrollment. Three user roles are defined: Administrator, Training Staff, and Trainer, each with specific functionalities tailored to their responsibilities. The system aims to streamline the training process, enhance employee development, and promote continuous learning within the organization.

Functions

1. User Account Management:

- Create, edit, and delete user accounts for trainers and training staff.
- Assign or change usernames and passwords.

2. Trainee Management:

- Create trainee accounts with details such as name, age, education, etc.
- Update or delete trainee accounts.
- View and search trainees based on various criteria like programming language or TOEIC score.

3. Course and Topic Management:

- Manage course categories by adding, updating, or deleting them.
- Manage courses by adding, updating, or deleting course details.
- Add topics to courses and assign courses to categories.

4. Trainer Management:

- Add, update, or delete trainer profiles with information such as name, type, and contact details.
- Assign trainers to specific topics.

Functions

5 Assignment Management:

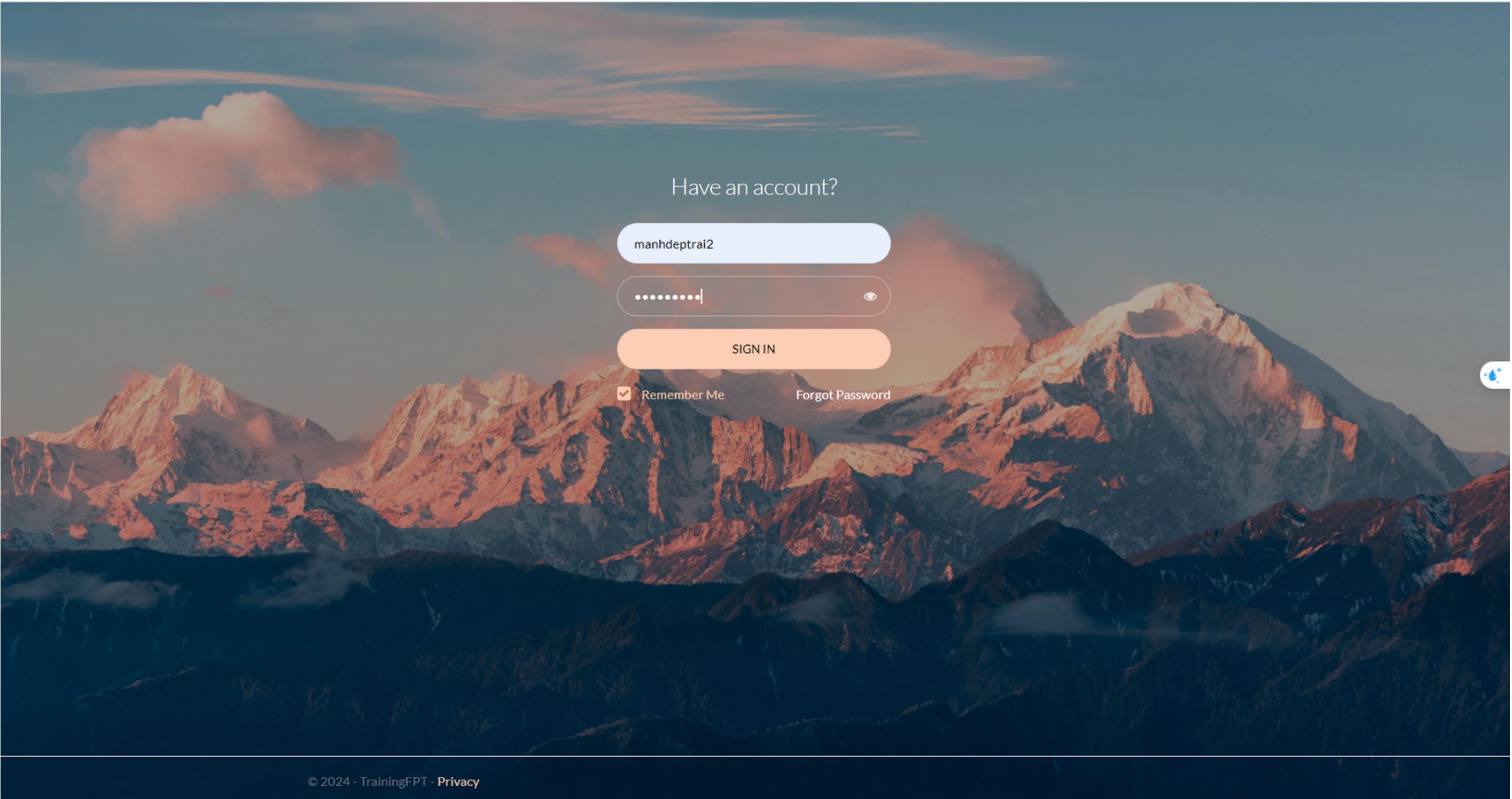
- Assign trainees to courses.
- Allow trainers to view courses they are assigned to.

6 Authentication and Authorization:

- Differentiate between three user roles: Administrator, Training Staff, and Trainer.
- Grant appropriate permissions based on user roles.

User Management

TrainingFPT Home Privacy



User Management

The screenshot shows a user interface for 'FPT TRAINING' with a dark blue sidebar and a light gray main content area.

Left Sidebar:

- FPT TRAINING logo
- [Dashboard](#)
- [Manage TrainingStaff](#)
- [Manage Trainer](#)

Top Right:

- Notifications: 3+
- Messages: 7
- User: manhdeptrai2

Main Content Area:

Dashboard

This is Dashboard

[Generate Report](#)

Bottom:

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<https://localhost:7164/index.html>

User Management

FPT TRAINING

Dashboard

Manage TrainingStaff

Manage Trainer

TrainingStaff

This is List Trainer

Add TrainingStaff +

Find By Name: Filter by: --Choose Status -- [Back to lists](#)

ID	Username	Avartar	Email	Status	Gender	Address	Action
4	trainingmahn		trainingmahn@gmail.com	Active	Male	HN	Edit Delete View

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User Management

FPT TRAINING

Dashboard

Manage TrainingStaff

Manage Trainer

TrainingStaff

This is List Trainer

Add TrainingStaff +

Find By Name: Filter by: --Choose Status -- [Back to lists](#)

ID	Username	Avartar	Email	Status	Gender	Address	Action
4	trainingmanh		trainingmanh@gmail.com	Active	Male	HN	Edit Delete View

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<https://localhost:7164/TrainingStaff/Add>

User Management



FPT TRAINING

Dashboard

TrainingStaff

Add New Topic

UserName	Phone
manhcm01	0988849719
Status	Address
--- Active ---	HN
BirthDay	ExtraCode
01/01/2003	10000
Gender	Education
Male	VNU
ProgramingLang	Password
Nodejs	*****
ToeicScore	Skills
500	Nodejs
Email	<input type="button" value="Save"/> nodejs
manhcm01@gmail.com	
AvatarFile	
Choose File images.jpg	

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User Management

FPT TRAINING

Dashboard

Manage TrainingStaff

Manage Trainer

TrainingStaff

This is List Trainer

Add TrainingStaff +

Find By Name: Filter by: --Choose Status -- [Back to lists](#)

Add successfully

ID	Username	Avartar	Email	Status	Gender	Address	Action
4	trainingmanh		trainingmanh@gmail.com	Active	Male	HN	Edit Delete View
7	manhcm01		manhcm01@gmail.com	Active	Male	HN	Edit Delete View

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User Management

FPT TRAINING

Dashboard

Manage TrainingStaff

Manage Trainer

TrainingStaff

This is List Trainer

Add TrainingStaff +

Find By Name: Filter by: --Choose Status -- [Back to lists](#)

Add successfully

ID	Username	Avartar	Email	Status	Gender	Address	Action
4	trainingmanh		trainingmanh@gmail.com	Active	Male	HN	Edit Delete View
7	manhcm01		manhcm01@gmail.com	Active	Male	HN	Edit Delete View

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<https://localhost:7164/TrainingStaff/Edit/4>

User Management

FPT TRAINING

Dashboard

TrainingStaff

Update TrainingStaff



AvatarFile

Choose File No file chosen

UserName

BirthDay

 Calendar icon

Gender

ProgramingLang

ToeicScore

Email

Phone

Address

ExtraCode

Education

Password

Status

Skills

Save

User Management

FPT TRAINING

Dashboard

Manage TrainingStaff

Manage Trainer

TrainingStaff

This is List Trainer

Add TrainingStaff +

Find By Name: Filter by: --Choose Status -- [Search and Filter](#) [Back to lists](#)

Update successfully

ID	Username	Avartar	Email	Status	Gender	Address	Action
4	deptraivodich		trainingmanh@gmail.com	Active	Male	HN	Edit Delete View
7	manhcm01		manhcm01@gmail.com	Active	Male	HN	Edit Delete View

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Topic Management

FPT TRAINING

Dashboard

Category

Courses

Topics

Manage Trainee

Manage Trainer

TrainerTopic

Topic

This is List Topic

Add Topic +

Find By Name: Filter by: --Choose Status -- [Back to lists](#)

ID	Course	Name	Video	Audio	Document	Description	Status	Created At	Update At	Action
9	Javascript	Basic			Document	Basic JS	Active	4/9/2024 6:24:16 PM	1/1/0001 12:00:00 AM	Edit Delete
10	PHP	Code			Document	Code PHP	Active	4/9/2024 9:34:55 PM	1/1/0001 12:00:00 AM	Edit Delete
11	Javascript	Code JS			Document	Code JS	Active	4/9/2024 9:38:19 PM	1/1/0001 12:00:00 AM	Edit Delete

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<https://localhost:7164/Topics/Delete/10>

Topic Management

FPT TRAINING

Dashboard

Category

Courses

Topics

Manage Trainee

Manage Trainer

TrainerTopic

Topic

This is List Topic

Add Topic +

Find By Name: Filter by: --Choose Status -- Back to lists

Delete successfully

ID	Course	Name	Video	Audio	Document	Description	Status	Created At	Update At	Action
9	Javascript	Basic		<p>▶ 0:00 / 4:18</p> <p>Document Download</p>	Basic JS	Active	4/9/2024 6:24:16 PM	1/1/0001 12:00:00 AM	Edit Delete	
11	Javascript	Code JS		<p>▶ 0:00 / 4:18</p> <p>Document Download</p>	Code JS	Active	4/9/2024 9:38:19 PM	1/1/0001 12:00:00 AM	Edit Delete	

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Authentication Admin

The screenshot shows a web application interface for 'FPT TRAINING'. On the left, a vertical sidebar menu lists three items: 'Dashboard', 'Manage TrainingStaff', and 'Manage Trainer'. The main content area is titled 'Dashboard' and contains the text 'This is Dashboard'. In the top right corner, there is a user profile section showing 'manhdeptra12' and a small profile picture. To the left of the profile, there are notification icons for messages and emails, both with a count of 7. A blue button labeled 'Generate Report' is located in the top right of the main content area. At the bottom of the page, there is a copyright notice: 'Copyright © BTec IT0501 - FPT 2024'. At the very bottom left, a URL bar displays the address 'https://localhost:7164/index.html'.

Authentication Training Staff

The screenshot shows the FPT TRAINING application interface. On the left, a blue sidebar menu lists several options: Dashboard, Category, Courses, Topics, Manage Trainee, Manage Trainer, and TrainerTopic. The main content area is titled "Dashboard" and contains the text "This is Dashboard". In the top right corner, there is a user profile for "manhtraining" with a small profile picture. To the left of the profile are two circular icons with the numbers "3+" and "7". A blue button labeled "Generate Report" is located in the top right corner of the main content area. At the bottom center of the page, the copyright notice "Copyright © BTec IT0501 - FPT 2024" is displayed.

Authentication Trainer

The screenshot shows a web application interface. On the left, there is a vertical blue sidebar with the 'FPT TRAINING' logo at the top. Below the logo, the word 'Dashboard' is written in white. The main content area is white and contains the text 'Dashboard' in bold black font, followed by the subtitle 'This is Dashboard' in a smaller gray font. In the top right corner of the main area, there is a blue button labeled 'Generate Report'. At the very bottom center of the page, there is a small copyright notice: 'Copyright © BTec IT0501 - FPT 2024'.

Trainer Topic Management

The screenshot shows a web-based application for managing trainer topics. The left sidebar, titled "FPT TRAINING", contains a navigation menu with the following items: Dashboard, Category, Courses, Topics, Manage Trainee, Manage Trainer, and TrainerTopic. The "TrainerTopic" item is currently selected and highlighted in blue. The main content area has a header "TrainerTopic" and a sub-header "This is List TrainerTopic". A blue "Add +" button is located above a table. The table has columns: UserName, TopicName, CreatedAt, and Action. There is one row of data: UserName "5", TopicName "TEST23", CreatedAt "4/9/2024 9:54:51 PM", and an "Edit" button in the Action column. The bottom right corner of the main content area features a small circular icon with a blue and red gradient.

UserName	TopicName	CreatedAt	Action
5	TEST23	4/9/2024 9:54:51 PM	Edit

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Trainer Topic Management

The screenshot shows a web-based application for managing trainer topics. The interface includes a header with the FPT TRAINING logo, a dashboard link, and user notifications (3+ messages, 7 pending). The main content area is titled "TrainerTopic" and displays the message "This is List Category". It features two input fields: "TopicName" containing "TEST23" and "UserName" containing "manhtrainer". A blue "Save" button is positioned below these fields. At the bottom of the page, the copyright notice "Copyright © BTec IT0501 - FPT 2024" is visible. The left side of the screen has a large blue vertical bar.

FPT TRAINING

Dashboard

TrainerTopic

This is List Category

TopicName

TEST23

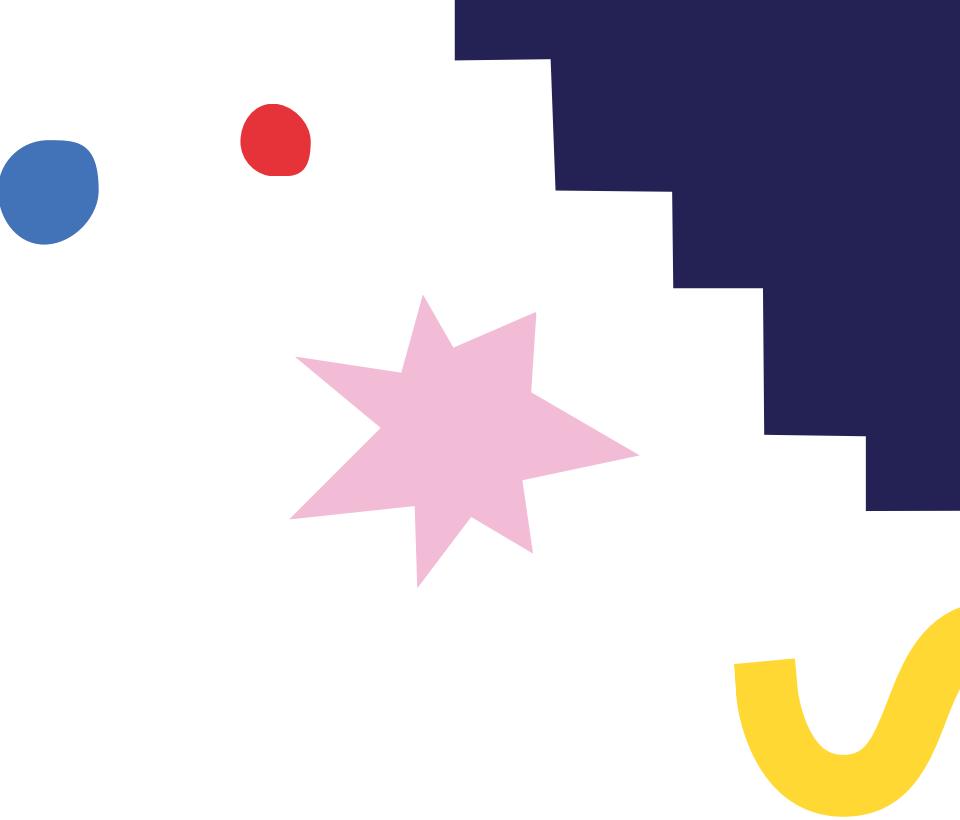
UserName

manhtrainer

Save

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Non-Functions

- 
1. Usability: The system should be intuitive and easy to navigate for users of all levels of technical proficiency.
 2. Performance: The system should be responsive and capable of handling multiple concurrent users without significant slowdowns.
 3. Security: Robust measures should be implemented to ensure the confidentiality, integrity, and availability of data. This includes secure authentication, data encryption, and access control mechanisms.
 4. Reliability: The system should be reliable and available whenever needed, minimizing downtime and ensuring data integrity.
 5. Scalability: The system should be scalable to accommodate future growth in terms of user base and data volume.
 6. Compatibility: The system should be compatible with various web browsers and devices to ensure accessibility for all users.
 7. Maintainability: The codebase should be well-structured and documented to facilitate maintenance and future updates.
 8. Performance: The system should have acceptable response times for common operations, such as loading pages or retrieving data.
 9. Accessibility: The system should comply with accessibility standards to ensure it can be used by individuals with disabilities.
 10. Regulatory Compliance: The system should adhere to relevant laws and regulations governing data privacy and security.

Results and Limitations:

1. Implemented Functionality: Core functionalities such as user account management, trainer profiles, course and topic management, and assignment capabilities have been successfully implemented.
2. Partial Implementation: The project lacks functionality to assign or change usernames and passwords for existing users, which could impact user management and security.
3. User Profile Management: Users can create, update, and delete profiles for both trainers and trainees, offering flexibility in managing user information.
4. Course and Topic Management: Administrators and training staff can effectively manage course categories, courses, and topics, facilitating organized training materials.
5. Search and View Capabilities: The system provides robust search and view features for trainee lists and assigned courses, ensuring easy access to relevant information.
6. Trainer Assignment: Trainers can be assigned to specific topics within courses, streamlining training organization and delivery.
7. Assessment of Limitations: The primary limitation is the absence of functionality to manage usernames and passwords for existing users, potentially impacting user management and security measures.
8. Future Improvements: Future iterations should prioritize implementing user account management functionalities as per requirements and continue testing and refinement for system effectiveness and reliability.

Conclusion

In conclusion, the development of the web-based training management system for FPT Co. marks a significant step towards enhancing internal training processes and promoting continuous learning within the organization. Despite the partial implementation of certain functionalities, the project has successfully delivered core features essential for effective training administration.

Moving forward, addressing the limitations identified, particularly in user account management, will be crucial to ensure the system's comprehensive functionality and security. With ongoing refinement and future improvements, we anticipate further optimization of the system's performance and usability, ultimately contributing to the professional development and growth of FPT Co.'s employees.