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TRAINING MANAGEMENT SYSTEM

Software Requirement Specification

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RECORD OF CHANGE

No	Date	Version	Change Description	Author	Reviewer
1	26/08/2022	1.0	Start	BA PRAC	
2					
3					
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1. INTRODUCTION

This application is used for Fresher Academy to support create and management classes easily.

This website helps the operation staff of FA in managing and scheduling classes, with features as follow:

- Create and manage the syllabus's content.
- Create and manage training program.
- Plan and manage classes.
- Report classes by week, quarter.

1.1. Purpose

By expressing the SRS, the milestone of this application is providing an overview of the Class planning applications website.

This SRS is to describe a detailed process of creating, starting, closing and managing classes including:

- Business Flow
- Screen Design Document
- User Interface
- User Story (Note: we do not mention Acceptance criteria in this version, but Min and Max values for validation are mentioned in column Max length; Happy case and error case are mentioned in column Supplementary explanation of “Item and event description” table)

The functional requirements specification of this project are:

- Define the scope of business goals, business functions and organizational units to be covered.
- Define the business process that the solution must facilitate.
- Facilitate a common understanding of what functional requirements are for all stakeholders.
- Establish the basis for defining acceptance tests for the solution to confirm that what is delivered meets the requirements.

It also describes the non-functional requirements, design constraints, and other elements necessary to provide a complete and comprehensive description of the requirements for the software.

1.2. Scope

The scope of this SRS defines the action of the operation staff of FA in managing and scheduling classes. The experiencing flow start at:

1. Create and manage the syllabus's content.
2. Create and manage training program.

3. Plan and manage classes.
4. Report classes by week, quarter.

1.3. Definitions, Acronyms, and Abbreviations

This subsection provides the definitions of all terms, acronyms and abbreviations required to properly interpret the document.

Acronym	Definition
Syllabus	Detailed description of training content.
Training program	It is created from many syllabuses.
Training class	It depends on different learners that there are different training programs.
Training calendar	Admin can view all training classes running.
Trainer	
Trainee	
REC	

Table 1.3_1: Menu name definition

1.4. References

This subsection provides a complete list of all documents referenced elsewhere in the SRS.

All the screens UI and mock-ups are stored at:

- <https://www.figma.com/file/GoBgMjMIsQqaEJAMoBCAgW/Warrior?node-id=49%3A199>

Input documents to write this SRS:

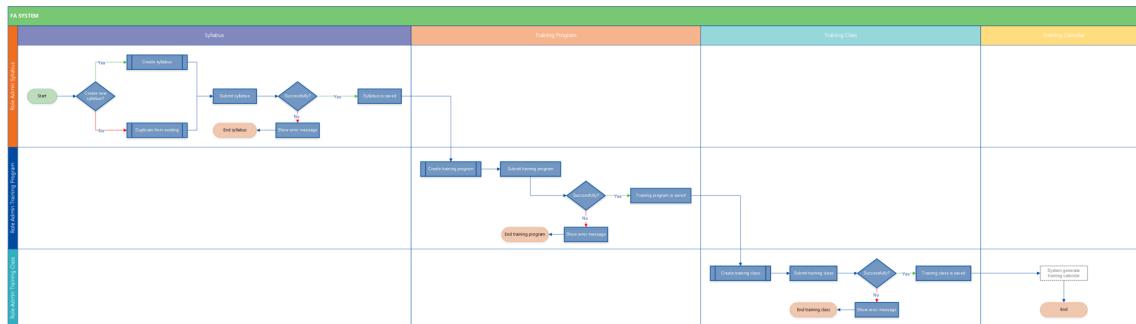
1. <https://fsoft-academy.edu.vn>
2. <https://fee.hau.edu.vn/media/29/uffile-upload-no-title29709.pdf>
3. https://www.youtube.com/watch?v=skf7eW-YQ_E&t=5s&ab_channel=FPTSoftware

4. <https://leowiki.com/review-fpt-software-academy-1639846318>

1.5. Overview

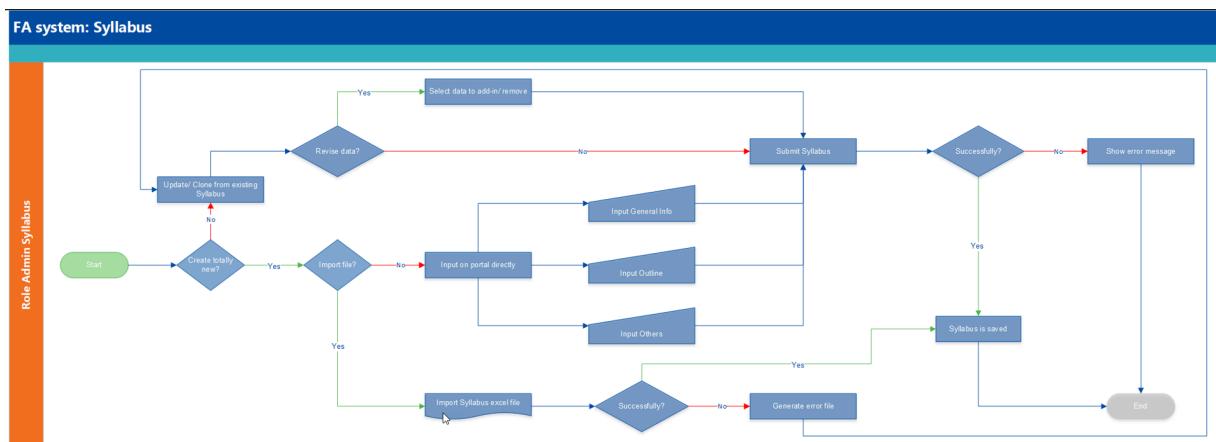
This subsection will lead users to go to details of SRS to determine the contents of SRS presented as formal documents. The SRS would help user catch up how to process of Class planning management

Business Flow:



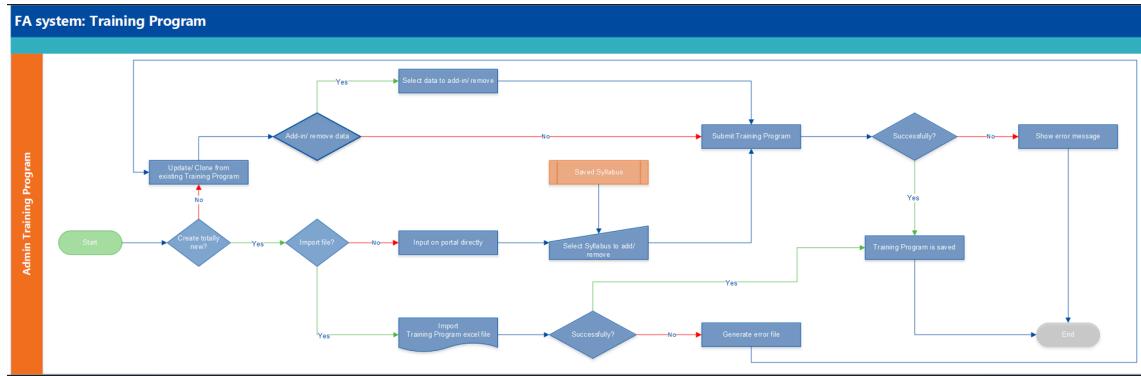
Flow 1.5_1: User Story 1 + 2

- User Story 1: Create syllabus
- User Story 2: Update syllabus



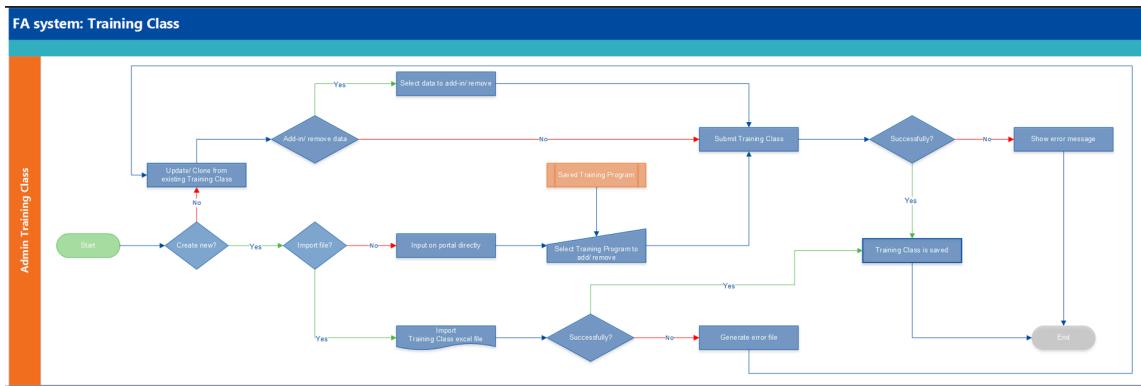
Flow 1.5_2: User Story 3 + 4

- User Story 3: Create training program
- User Story 4: Update training program



Flow 1.5_3: User Story 5 + 6

- User Story 5: Create training class
- User Story 6: Update training class



Flow 1.5_4: User Story 7

- User Story 7: Create/ View training calendar

2. OVERALL DESCRIPTION

2.1. Product Perspective

Class planning management application website is used to create a class with detailed program training content in specific duration. With different learners, admin can easily adjust training program content.

2.2. Product Functions

No.	Feature	Development Scope
Common Function		
1	Upload file function	Upload training material
2	Create object function	Create includes syllabus, training program, training class
3	Edit object function	Edit includes syllabus, training program, training class
4	Delete object function	Delete includes syllabus, training program, training class
5	Change status of object function	Status of syllabus, training program, training class
6	Import object function	Import list of syllabuses, training program, training class
Main function		
1	Create syllabus	By specific training topic, users can create detailed training program contents. Syllabus is a master data to create a training program.
2	Update syllabus	In lists of created syllabuses, users choose the syllabus that they want to update, then users move to screen with detailed information related. Because the syllabus is a master data of training program, be careful to update it, it will affect all programs using it.
3	Create training program	Training program is created by combining many syllabuses.
4	Update training program	Allow users to update created training programs.
5	Create training class	Training program is a meta data to create a training class. Depending on different learners, users can easily edit training content to create a different class.
6	Update training class	Allow users to update the created training class.
7	Filter function in calendar	Filter date, time frame, class location, class status

8	Allocation calculation	Automatically calculate the allocation of the syllabus
9	Training class code	<p>Automatically generate based on class location, created year, attendee, class name, class number</p> <p>Format: HCM22_FR.O_DevOps_01</p> <p>HCM: data from Location field</p> <p>22: current year of system</p> <p>FR: data from Program Content column</p> <p>O: data from Format type column</p> <p>01: sequence number auto generated from the system from 01 to 99 of 1 course name</p>

Table 2.2_1: Function list

2.3. User Characteristics

There are mainly four kinds of users is used in this system:

1. **Super admin:** this user has full access on any screen. Admin is responsible for maintaining the system, involved in software fixes, deployment and regular maintenance. Super admin can create a syllabus, training program and class.
2. **Class admin:** this user can view training class to support setup room, equipment for study, check status of trainer, trainees.
3. **Trainer:** this user can create a syllabus, create a training program.
4. **Trainee:** this user is the learner can view the specific training program and download the training material or access to link that added on training material popup to study

2.4. Constraints

Following are the main constraints

1. In Screen list of syllabuses, list of training program, user can only view maximum 10,000 rows
2. Upload file size is maximum 40MB.
3. This system is supported on Chrome and Firefox browsers. The other browser may be not perfectly.

3. SPECIFIC REQUIREMENTS

3.1. *Functionality*

Icons in table Item definition:

Type: Link, Button, Textbox, Textrea, Combobox, Listbox, Label, Radio Button, CheckBox, Table, Password, hidden, Calendar, Tooltip
Attribute: 9 (Numeric), X (Alphanumeric), — (None)
Display Yes/No: <input type="circle"/> (Displayed), <input type="triangle"/> (Displayed with condition), <input type="times"/> (Not displayed)
Input Yes/No: <input type="circle"/> (Can input), <input type="triangle"/> (Can input with condition), <input type="times"/> (Cannot input)
Required: <input type="circle"/> (Required), <input type="triangle"/> (Required with condition), <input type="times"/> (Not required)

Table 3.1_1: Icon meaning in Table Item definition

3.1.1. Use Case 1: Login

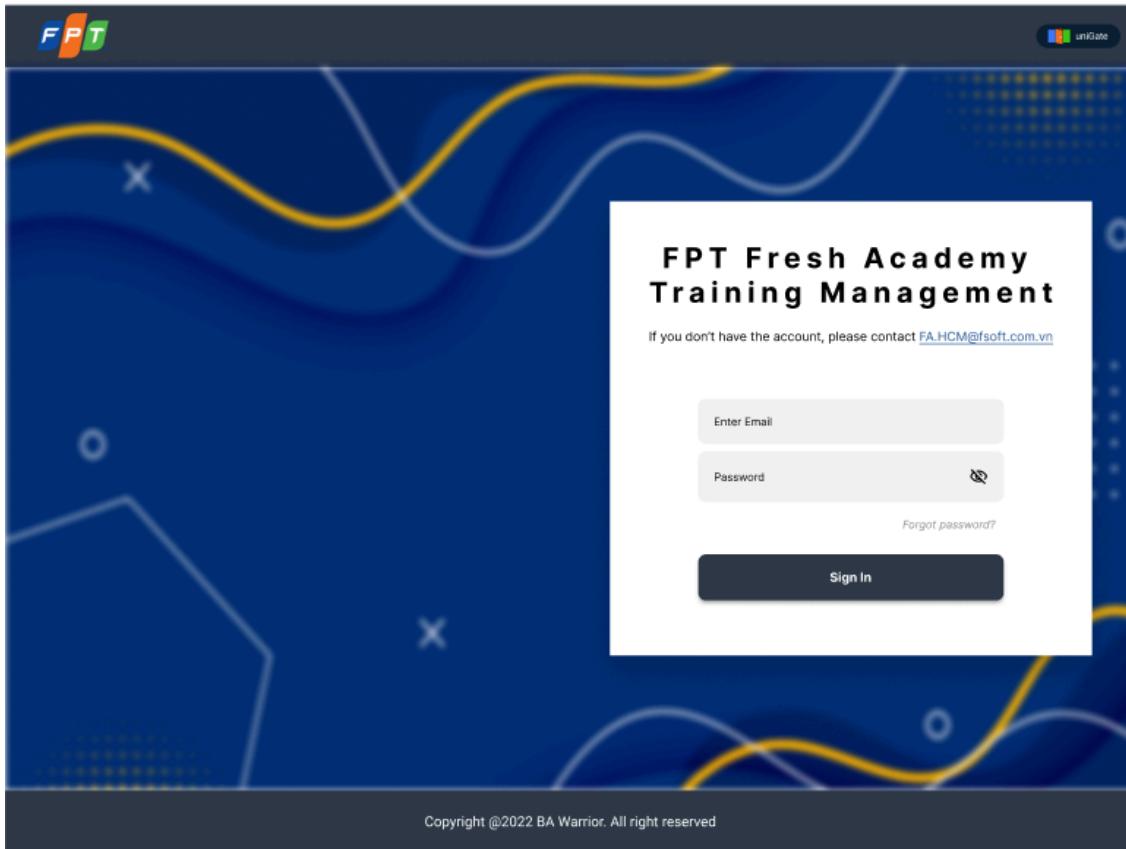


Figure 3.1.1_1: Login



Invalid username or password.

Figure 3.1.1_2: EM01

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
1	Web	Login	End user	Login account to access the application.	Login successfully and the system will direct the user to the home page.	User input incorrect information to log in System shows error messages EM01 "Invalid username or password" or EM02 "Required field!"
						User input correct information to log in System directs to Homepage.

Table 3.1.1_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Enter Email	Textbox	X	Max: 40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need to have an email domain
2	Password	Textbox	X	Min: 12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Hide/Unhide Password should be password of fsoft account
3	Sign in	Button	-	-	<input type="radio"/>	x	<input type="radio"/>	[Ev01] [Process Flow] Step 1: after inserting email address and password, user clicks Login button, system returns error message (failure) or directs user to Homepage (success) -False: Display error msg "Invalid username or password." -True: Direct user to homepage
4	Forgot password?	Link	-	-	<input type="radio"/>	x	<input type="radio"/>	[Ev02] [Process Flow] Step 1: Click Forgot password link, system

								directs user to the Forgot password page to reset password
5	If you don't have an account, please contact FA.HCM@ fsoft.com.v n	Label/L ink	-	-	○	X	○	[Ev03] [Process Flow] Step 1: If user has no account, click FA.HCM@fsoft.com.v n link, system will open Outlook to compose a new email Step 2: user fills in all info and send email to FA.HCM@fsoft.com.v n to create a new account
6	FPT Fresh Academy Training Management	Label	-	-	○	X	○	System name

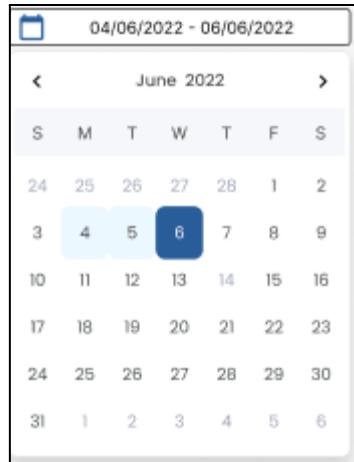
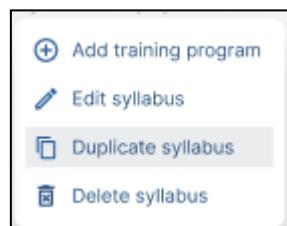
Table 3.1.1_2: Item and event description

3.1.2. Use Case 2: List of Syllabus

Syllabus	Code	Created on	Created by	Duration	Output standard	...
C# Programming Language	NPL	22/04/2021	HaNTT2	12 days	H4SD K6SD H6SD	...
C# basic program	CBG	21/07/2019	HaNTT2	7 days	H4SD K6SD	...
.NET basic program	NET	07/10/2021	HaNTT2	5 days	H4SD K4SD	...
Python basic program	PYT	07/10/2021	HaNTT2	15 days	H6SD K6SD H1ST	...
DevOps Foundation	DOF	10/11/2021	HaNTT2	25 days	H4SD K6SD H2SD	...
Azure DevOps Foundation	AZD	10/11/2021	HaNTT2	25 days	H4SD K6SD H2SD	...
AWS DevOps Foundation	AWD	04/04/2022	HaNTT2	25 days	H4SD K6SD H2SD	...
Fullstack Java Web Developer	FULJ	04/04/2022	HaNTT2	25 days	K3SD H3SD	...
Fullstack .NET Web Developer	FULN	07/10/2021	HaNTT2	25 days	K5SD KT4D	...
ISTQB Foundation	TES	07/10/2021	HaNTT2	25 days	KT4D H4SD	...

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Figure 3.1.2_1: List of Syllabus

**Figure 3.1.2_2: Date picker calendar****Figure 3.1.2_3: Syllabus popup menu**

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
2	Web	List of Syllabus	End user	View list of syllabuses	-View all syllabus -Search syllabus -Open form Syllabus details -Open form Create Syllabus	N/A

Table 3.1.2_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
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1	Syllabus	Label	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
2	Search By	Combobox	X	30	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	Default value: Search by syllabus name, code, creator & output. [Ev01] [Process Flow] Step 1: When users input keywords and press Enter, a list of syllabuses according to keywords will be shown.
3	Keyword	Label	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shown under field Search By after user input keywords.
4	Created Date	Calendar	-	-	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	Default value: from today to today + 3 months. [Ev02] [Process Flow] Step 1: When the user selects the range of time from field Created Date, a list of syllabuses according to range of time will be shown.
5	Import	Button	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	[Ev03] [Process Flow] Step 1: On click, the system opens the form Import file.
6	Add Syllabus	Button	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	[Ev04] [Process Flow] Step 1: On click, the system directs to screen Create Syllabus.
Table List of Syllabus								
7	Syllabus	Label/Link	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show name of syllabus. [Ev05] [Process Flow]

								Step 1: On click, the system directs to screen Syllabus details of this syllabus. [Ev06] [Process Flow] Step 1: On right-click, the system prompts the Syllabus popup menu.
8	Code	Label	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show code of syllabus.
9	Created on	Label	Format value: dd/mm/yy yy d: day m: month y: year	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show creation date of syllabus.
10	Created by	Label	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show the person who created the syllabus.
11	Duration	Label	Format value: x days x: total days of syllabus	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show duration of syllabus.
12	Output standard	Label	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Show output standard code.
13	Syllabus menu	Icon	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	[Ev07] [Process Flow] Step 1: On click, the system prompts the Syllabus popup menu.

Syllabus popup menu (Figure 5)

14	Add training program	Button	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	[Ev08] [Process Flow] Step 1: On click, the system directs to screen Create Training Program.
15	Edit syllabus	Button	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	[Ev09] [Process Flow] Step 1: On click, the system directs to

								screen Edit Syllabus.
16	Duplicate syllabus	Button	-	-	Δ	x	-	[Ev10] [Process Flow] Step 1: On click, the system directs to screen Create Syllabus of new syllabus with same data of this syllabus. Name of new syllabus: Copy of [Syllabus name]
17	Delete syllabus	Button	-	-	Δ	x	-	Disable or enable buttons based on role permission of the system. [Ev11] [Process Flow] Step 1: When the button is enabled and the user clicks on the button, the system prompts Confirmation popup.

Table 3.1.2_2: Item and event description

3.1.3. Use Case 3: Syllabus details

The screenshot shows the Syllabus details page for a course titled "C# Programming Language NPL v4.0". The page includes a sidebar with navigation links like Home, Syllabus, Training program, Class, Training calendar, User management, Learning materials, and Setting. The main content area displays the course title, duration (8 days / 64 hours), and last modification date (23/07/2022 by Warrior Tran). Below this are tabs for General, Outline, and Others. The General tab shows details such as Attendee number (20 ppl), Level (All Levels), and Output standard (H4SD, K1SD, H6SD). A section for Technical Requirement(s) lists software requirements: Microsoft SQL Server 2008 Express, Microsoft Visual Studio 2010, and Microsoft Office 2007 (Visio, Word, PowerPoint). The Course objectives section describes the goals of the course, including understanding basic concepts of C# and working with common classes in ADO.NET.

Figure 3.1.3_1: Syllabus details - tab General

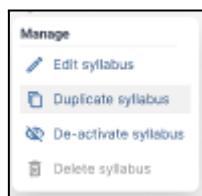


Figure 3.1.3_2: Syllabus manage popup

Coding standard

Có kỹ năng viết chương trình một cách tối ưu, dễ sửa đổi. Biết tuân thủ Coding Convention, không mắc lỗi cơ bản.

Figure 3.1.3_3: Output standard tooltip

Syllabus

C# Programming Language Active

NPL v4.0

8 days (68 hours)
Modified on 23/07/2022 by **Warrior Tran**

	General	Outline	Others
Day 1			
Unit 1	.NET Introduction 3hrs		training material
	.NET Introduction H4SD 30mins		
	Declaration & Assignment H4SD 30mins		
	Practice Time: Assignment/Mentoring H4SD 120mins		
Unit 2	Operators 3.5hrs		training material
	Operators H4SD 30mins		
	Comparation H4SD 30mins		
	Logical Operators H4SD 30mins		
	Practice Time: Assignment/Mentoring H4SD 120mins		
Day 2			
Unit 3	Flow control 3.5 hrs		training material
Unit 4	Basic OOP 2 hrs		training material

Time allocation

- Assignment/Lab (54%)
- Concept/Lecture (29%)
- Guide/Review (0%)
- Test/Quiz (11%)
- Exam (6%)

Figure 3.1.3_4: Syllabus details - tab Outline

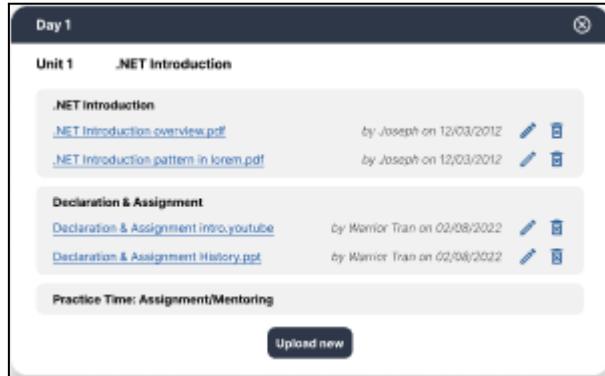


Figure 3.1.3_5: Training material popup

Syllabus

C# Programming Language Active

NPL v4.0

8 days (68 hours) Modified on 23/07/2022 by Warrior Tran

General Outline Others

Time allocation		Assessment scheme	
<ul style="list-style-type: none"> AssignmentLab 54% ConceptLecture 29% GuideReview 9% TestQuiz 11% Exam 1% 		Quiz: 15%	Assignment: 15%
		Final: 70%	
Passing criteria			
GPA > 70%			

Training delivery principle

- Training**
 - Trainee who actively complete online learning according to MOOC links provided
 - At the end of the day, students complete Daily Quiz for 30 minutes
 - Trainer/Mentor supports answering questions, guiding exercises 1.5-2.0h/day
 - Trainer conduct the workshops
 - Trainees complete Assignments and Labs
 - Trainees have 1 final test in 4 hours (1 hour theory + 3 hours of practice)
- Re-test**
 - Only allow each student to retake the test up to 2 times
 - Re-exam the same structure as the Final Test
- Marking**
 - Mentor review students on 2 Assignments
 - Mentor marks the 3 Quizzes and Final Exam Theory
 - Trainer marks the Final Exam Practice
 - If the trainees have to retake test, the score will be calculated:
 - The score >=8, the score will be 8
 - The score <8, the score will be that score
- Waiver Criteria**
 - Students pass the quick test
 - Trainer Audit: rank B
- Others**
 - Trainers can allow students to complete homework and submit the next day

Figure 3.1.3_6: Syllabus details - tab Others

Screen on web	Platform	Function	As a <type of user>	Role	I want to <perform a task>	So that I can <achieve some goals>	Business rule
3	Web	Syllabus details	End user	End user	View syllabus details	-Know the content of a specific syllabus	N/A

Table 3.1.3_1: User story

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Syllabus	Label	-	-	-	○	x	○	-
2	Syllabus name	Label	-	-	-	○	x	-	Show name of syllabus.
3	Syllabus code	Label	-	-	-	○	x	.	Show code of syllabus.
4	Syllabus manage	Icon	-	-	-	○	x	-	[Ev01] [Process Flow] Step 1: On click, system prompts Syllabus manage popup.
5	Duration	Label	Format value: x days (y hours) x: total days of syllabus y: total hours of syllabus	-	-	○	x	-	Show duration of syllabus.
6	Modify information	Label	Format value: Modified on dd/mm/yyyy by zd: day	-	-	○	x	-	Show modified information of syllabus.

			m: month y: year z: person who created syllabus						
7	Syllabus mode	Label	-	-	-	○	x	-	Value list: Active, Inactive Default value: Active Show mode of syllabus.
8	Navigation bar	Button	-	-	-	○	x	-	Value list: General, Outline, Others. [Ev02] [Process Flow] Step 1: When the user clicks on a tab, this tab is highlighted and shows corresponding information of the syllabus.
Syllabus manage popup (Figure 7)									
9	Manage	Label	-	-	-	△	x	-	-
10	Edit syllabus	Button	-	-	-	△	x	-	[Ev03] [Process Flow] Step 1: On click, the system directs to screen Edit Syllabus.
11	Duplicate syllabus	Button	-	-	-	△	x	-	[Ev04] [Process Flow] Step 1: On click, the system directs to screen Create Syllabus of new

									syllabus with same data of this syllabus. Name of new syllabus: Copy of [Syllabus name]
12	De-active syllabus	Button	-	-	-	Δ	x	-	[Ev05] [Process Flow] Step 1: On click, Syllabus mode is changed from Active to Inactive.
13	Delete syllabus	Button	-	-	-	Δ	x	-	Disable or enable buttons based on role permission of the system. [Ev06] [Process Flow] Step 1: When the button is enabled and the user clicks on the button, the system prompts Confirmation popup.

Output Standard tooltip (Figure 8)

14	Title	Label	-	-	-	Δ	x	-	Data is retrieved from Master Data.
15	Content	Label	-	-	-	Δ	x	-	Data is retrieved from Master Data.

Tab General (Figure 6)

16	Attendee number	Label	-	-	-	○	x	-	-
17	Level	Label	-	-	-	○	x	-	-

18	Output standard	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
19	Technical Requirement(s)	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
20	Course objectives	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-

Tab Outline (Figure 9)

21	Time allocation	Chart	Type: pie chart	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Value list: Assignment/Lab Concept/Lecture Guide/Review Test/Quiz Exam
22	Day	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
23	Unit	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
24	Unit name	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
25	Lesson name	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
26	Output standard	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	[Ev07] [Process Flow] Step 1: When the user hover mouse on the label, the tooltip will be shown.
27	Time	Label	Format value: x mins X: minutes	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	-
28	Lesson type	Label	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	Value list: Online, Offline
29	Delivery types	Icon	-	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	-	[Ev08] [Process Flow] Step 1: When the user hover mouse on the icon, the tooltip will be shown.

30	Training material	Icon	-	-	-	○	x	-	[Ev09] [Process Flow] Step 1: On click, system prompts Training material popup.
31	Toggle	Icon	-	-	-	○	x	-	[Ev10] [Process Flow] Step 1: On click, expand and collapse form.

Training material popup (Figure 10)

32	Day	Label	-	-	-	Δ	x	-	-
33	Unit	Label	-	-	-	Δ	x	-	-
34	Unit name	Label	-	-	-	Δ	x	-	-
35	Close	Icon	-	-	-	Δ	x	-	[Ev11] [Process Flow] Step 1: On click, Training material popup will be closed.
36	Lesson name	Label	-	-	-	Δ	x	-	-
37	File name	Link	File format: excel, ppt, word, picture, link	-	-	Δ	x	-	[Ev12] [Process Flow] Step 1: On click, If you type a link, the system will direct to this link. Else, files will be downloaded.
38	Modify Information	Label	Format value: by x on dd/mm/yyyy x:	-	-	Δ	x	-	Show modified information. Updated after user edit training material.

			person who uploaded file. d: day m: month y: year						
39	Edit	Icon	-	-	-	Δ	x	-	[Ev13] [Process Flow] Step 1: On click, system opens form Open from local system
40	Delete	Icon	-	-	-	Δ	x	-	Delete file name. [Ev14] [Process Flow] Step 1: On click, system prompts Confirmation popup
41	Upload new	Button	-	-	-	Δ	x	-	[Ev15] [Process Flow] Step 1: On click, system opens form Upload File
Tab Others (Figure 11)									
42	Time allocation	Chart	Type: pie chart	-	-	○	x	-	Value list: Assignment/Lab Concept/Lecture Guide/Review Test/Quiz Exam
43	Assessment scheme	Label	-	-	-	○	x	-	-
44	Quiz	Label	-	-	-	○	x	-	-
45	Assignment	Label	-	-	-	○	x	-	-

46	Final	Label	-	-	-	○	X	-	-
47	Passing criteria	Label	-	-	-	○	X	-	-
48	GPA	Label	-	-	-	○	X	-	-
49	Training delivery principle	Label	-	-	-	○	X	-	-
50	Training	Label	-	-	-	○	X	-	-
51	Re-test	Label	-	-	-	○	X	-	-
52	Marking	Label	-	-	-	○	X	-	-
53	Waiver Criteria	Label	-	-	-	○	X	-	-
54	Others	Label	-	-	-	○	X	-	-

Table 3.1.3_2: Item and event description

3.1.4. Use Case 4: Create New Syllabus

The screenshot shows the 'Create Syllabus' page in the 'General' tab. The top navigation bar includes the FPT logo, uniGate, and a user profile for 'Warrior Tran'. The left sidebar has links for Home, Syllabus (selected), Create syllabus, Training program, Class, Training calendar, User management, Learning materials, and Setting.

Syllabus General Tab:

- Syllabus Name:** C# Language Program
- Code:** NPL
- Version:** 1.0
- Level:** All Level
- Attendee number:** 20
- Technical Requirement(s):**
 - Trainees' PCs need to have following software installed & run without any issues:
 - Microsoft SQL Server 2005 Express (in which the trainees can create & manipulate on their own database)
 - Microsoft Visual Studio 2017
 - Microsoft Office 2007 (Visio, Word, PowerPoint)
- Course Objectives:**

This topic is to introduce about C# programming language knowledge; adapt trainees with skills, lessons and practices which is specifically used in the Fsoft projects.

In details, after completing the topic, trainees will:

 - Understand basic concepts of high-level programming languages (keyword, statement, operator, control-of-flow)
 - Understand and distinguish two concepts: class (Class) and object (Object)
 - Understand and apply object-oriented programming knowledge to resolve simple problems (Inheritance, Encapsulation, Abstraction, Polymorphism)

Time allocation:

- Assignment/Lab (0%)
- Concept/Lecture (0%)
- Guide/Review (0%)
- Test/Quiz (0%)
- Exam (0%)

Buttons: Cancel, Save as draft, Next

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Figure 3.1.4_1: Create Syllabus - tab General

Syllabus

Syllabus Name* C# Language Program | **Code:** NPL **Version:** 1.0

General **Outline** **Others**

Level All Level

Attendee number 20

Technical Requirement(s)

Trainees' PCs need to have following software installed & run without any issues:

- Microsoft SQL Server 2005 Express (in which the trainees can create & manipulate on their own database)
- Microsoft Visual Studio 2017
- Microsoft Office 2007 (Visio, Word, PowerPoint)

Course Objectives

This topic is to introduce about C# programming language knowledge; adapt trainees with skills, lessons and practices which is specifically used in the

Fsoft projects.

In details, after completing the topic, trainees will:

- Understand basic concepts of high-level programming languages (keyword, statement, operator, control-of-flow)
- Understand and distinguish two concepts: class (Class) and object (Object)
- Understand and apply object-oriented programming knowledge to resolve simple problems (Inheritance, Encapsulation, Abstraction, Polymorphism)

Time allocation

- Assignment/Lab (0%)
- Concept/Lecture (0%)
- Guide/Review (0%)
- Test/Quiz (0%)
- Exam (0%)

Cancel **Save as draft** **Next**

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Figure 3.1.4_2: Create Syllabus - tab Outline

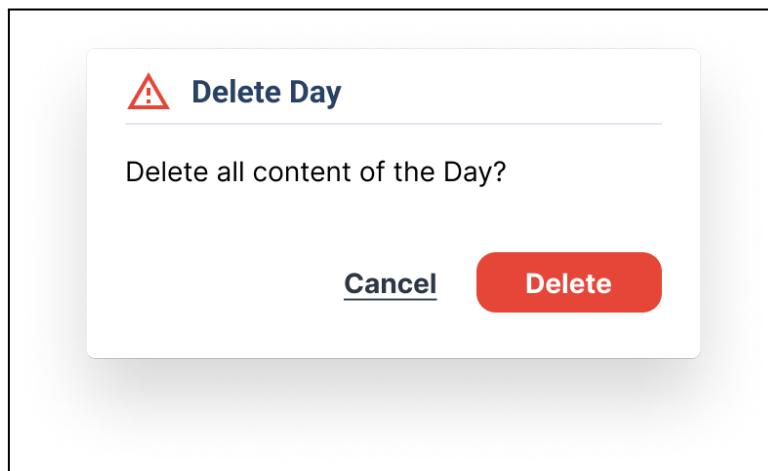


Figure 3.1.4_3: Create Syllabus - Delete day popup

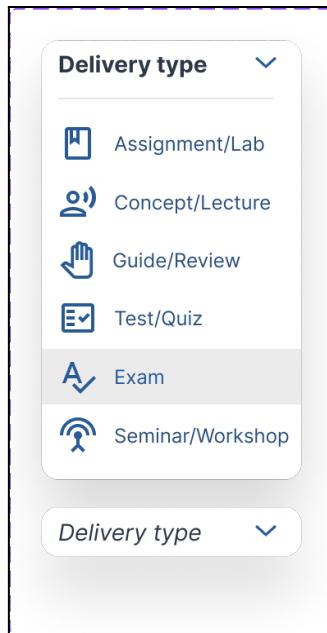


Figure 3.1.4_4: Delivery Type

A screenshot of a mobile application interface. At the top, it says "Day 3". Below that, "Unit 5 .NET Introduction". Underneath, there's a section titled ".NET Introduction" containing four items: ".NET Introduction overview.pdf" uploaded by Joseph on 12/03/2012, ".NET Introduction pattern in lorem.pdf" uploaded by Joseph on 12/03/2012, "What is future.youtube" uploaded by Warrior Tran on 02/08/2022, and ".NET history.ppt" uploaded by Warrior Tran on 02/08/2022. Each item has edit and delete icons next to it. At the bottom, a dark button says "Upload new".

Figure 3.1.4_5: Training Material

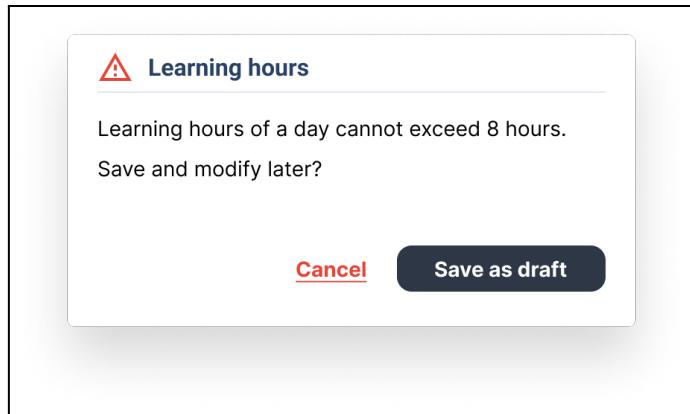


Figure 3.1.4_6: Alert popup

The screenshot displays the 'Create syllabus' interface. On the left is a sidebar with navigation links: Home, Syllabus (View syllabus, Create syllabus), Training program, Class, Training calendar, User management, Learning materials, and Setting. The main area has a title 'Syllabus' with tabs: General, Outline, Other, and Done. The 'Other' tab is active. It shows a 'Syllabus Name' field with 'C# Language Program', a 'Code' field with 'NPL', and a 'Version' field with '1.0'. Below these are sections for 'Time allocation' (a pie chart showing Assignment/Lab 54%, Concept/Lecture 29%, Guide/Review 9%, Test/Quiz 1%, Exam 6%), 'Assessment scheme' (Quiz 15%, Assignment 15%, Final 70%, Final Theory 40%, Final Practice 60%), and 'Passing criteria' (GPA 70%). The 'Training delivery principle' section contains five checkboxes: Training, Re-test, Marking, Waiver Criteria, and Others. The 'Training' checkbox is checked and describes a process involving MOOC links, daily quizzes, and final tests. The 'Re-test' checkbox describes allowing students to retake tests up to 2 times. The 'Marking' checkbox describes marking assignments, quizzes, and exams. The 'Waiver Criteria' checkbox describes passing quick tests and audit. The 'Others' checkbox describes homework submission. At the bottom are 'Previous', 'Cancel', 'Save as draft', and 'Save' buttons. A copyright notice at the bottom states "Copyright @2022 BA Warrior. All right reserved".

Figure 3.1.4_7: Create Syllabus - tab Others

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
4	Web	Create Syllabus	End user	Create New Syllabus	Create a new Syllabus.	-Define Outputs for syllabus. -Define Assessment scheme for syllabus. -Add Training Materials for each created syllabus

Table 3.1.4_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
Create Syllabus (Figure 3.1.4_1)								
1	Syllabus	Label	-	-	o	x	x	Display the Module name: "Syllabus"
2	Progress Status	Table	-	-	o	x	x	Show the input progress: - The black bar represents that user is inputting General Information. - The blue bar represents that the user is inputting outline information. - The orange bar represents that user is inputting others information. - The green bar represents the Done status. - The gray bar represents the Not Yet status.
3	Syllabus Name	Textbox	x	-	o	o	o	Display Syllabus Name [Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank.

								Step 2: User fills in information to the blank.
4	Syllabus Code	Textbox	x	-	o	x	x	Automatically created with the Syllabus Name.
5	Syllabus Version	Textbox	x	-	o	o	o	Automatically created with “1.0” [Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
6	Time Allocation	Table	-	-	o	x	x	Default value: - Assignment/Lab - Concept/Lecture - Guide/Review - Test/Quiz - Exam Time Allocation is automatically calculated based on the Syllabus Outline data. Training Delivery Principle is uploaded from the same Principle for all Syllabuses.
7	Navigation Bar	Button	-	-	Δ	x	x	Only when all the required fields are populated will the user move to the next tab. [Ev02] [Process flow] Step 1: User clicks the tab and wants to see information on the navigation bar. Step 2: Highlight tab information. [Ev03] [Process flow] Step 1: User clicks the tab and wants to see information on the

								navigation bar. Step 2: Display all the information in the Syllabus tab.
General (Figure 3.1.4_1)								
8	Level	Drop Down-list	-	-	o	o	o	Click to select level
9	Attendee Number	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
10	Technical Requirement(s)	Text area	x	Max	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
11	Course Objectives	Text area	x	Max	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
Outline (Figure 3.1.4_2)								
12	Day	Label	-	-	o	x	x	Display Day information
13	Unit	Label	-	-	o	x	x	Display unit information
14	Unit Name	Label	-	-	o	x	x	Display unit name information
15	Content Name	Label	-	-	o	x	x	Display lesson name information
16	Content Type	Button	-	-	o	x	x	Value list: Online, Offline [Ev04] [Process flow]

								Step 1: If the user wants to switch status, click the button online/offline. Step 2: The status will automatically switch Online or Offline.
17	Output standard	Drop Down-list	-	-	o	x	x	Click to select output standard
18	Unit Duration	Textbox	Format value: x mins X: minutes	-	o	x	x	Display Unit Duration
20	Delivery Type	Drop Down-list	-	-	o	o	o	Click to select delivery type. There are 6 types: - Assignment/ Task - Concept/ Lecture - Guide/ Review - Test/ Quiz - Exam - Seminar/ Workshop
21	Training Material	Button	-	-	o	x	x	[Ev05] [Process flow] Step 1: When the user clicks on the training material icon, the information will be displayed corresponding to the unit. Step 2: Display Training Material Information related to the unit.
22	Add Content	Button	-	-	Δ	o	x	Active when one content has been entered with all information [Ev06] [Process flow] Step 1: Users want to add more content in the unit, click on the Add Content icon. Step 2: The system will

								display a new input row with the required fields: - Content name - Output - Duration - Delivery Type - Online/Offline
23	Content	Table	-	-	Δ	o	o	Default value: - Content name: "Content Name" - Output: as the adjacent content above - Duration: as the adjacent content above - Delivery Type: as the adjacent content above - Online/Offline: as the adjacent content above [Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User update information to create content.
24	Add Unit	Button	-	-	Δ	o	x	[Ev07] [Process flow] Step 1: Users want to add more units in the day, click on the Add Unit icon. Step 2: The system will display the fields that need to be input.
25	Add Day	Button	-	-	Δ	o	x	[Ev08] [Process flow] Step 1: Users want to add Day, click on the Add Day icon. Step 2: The system will display the fields that need to be input.
26	Upload training material	Table	-	-	o	x	x	[Ev09] [Process Flow] Step 1: On click, system prompts Training material

								popup.
13	Collapse button	Button	-	-	o	x	x	[Ev10] [Process flow] Step 1: User clicks on the "Collapse" icon. Step 2: The content of that day/chapter/post will be collapsed by the corresponding level.
Others (Figure 3.1.4 7)								
27	Assessment schema	Label	-	-	o	x	x	Display the text: "Assessment Schema"
28	Quiz	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
29	Assignment	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
30	Final	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
31	Final Theory	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
32	Final Practice	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does

								not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
33	Passing criteria	Label	-	-	o	x	x	Display the text: "Passing criteria"
34	GPA	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
35	Training delivery principle	Textbox	x	-	o	o	o	[Ev01] [Process flow] Step 1: If the user does not fill in the blank, the border will turn red if left blank. Step 2: User fills in information to the blank.
36	Action Buttons	Button	-	-	Δ	x	x	Create button is only displayed when all the necessary information has been entered. [Ev11] [Process flow] Step 1: When the user wants to cancel, click on the Cancel button. Step 2: The system will navigate the user to the Syllabus Screen. [Ev12] [Process flow] Step 1: When the user wants to Save file as Draft, click on Save as Draft button. Step 2: The system will save all the current information as draft and only the creator can view.

								[Ev13] [Process flow] Step 1: When the user wants to finish creating the syllabus, click on the Done button. Step 2: Syllabus status will switch to Done.
Training Material (Figure 3.1.4 5)								
37	Day	Label	-	-	Δ	x	-	Display Day information
38	Unit	Label	-	-	Δ	x	-	Display Unit information
39	Unit name	Label	-	-	Δ	x	-	Display Unit Name
40	Close	Icon	-		Δ	x	-	[Ev14] [Process Flow] Step 1: When the user wants to close training material popup, click on Close icon. Step 2: Training material popup will be closed.
41	Lesson name	Label	-	-	Δ	x	-	Display Lesson name information
42	File name	Link	File format: excel, ppt, word, picture, link	-	Δ	x	-	[Ev15] [Process Flow] Step 1: On click, If you type a link, the system will direct to this link. Else, files will be downloaded.
43	Modify Information	Label	Format value: by x on dd/mm/yyyy x: person who uploaded file. d: day m: month y: year	-	Δ	x	-	Show modified information. Updated after user edit training material.
44	Edit	Icon	-	-	Δ	x	-	[Ev16] [Process flow]

								Step 1: When the user wants to edit the document, click on the pencil icon. Step 2: The system will allow the user to edit documents.
45	Delete	Icon	-	-	Δ	x	-	[Ev17] [Process flow] Step1: When the user wants to delete a file, click on the trash bin icon. Step 2: The system will delete uploaded files.
46	Upload new	Button	-	-	Δ	x	-	[Ev18] [Process Flow] Step 1: When the user wants to upload new training material, click on Upload New. Step 2: The system opens from the Upload File.

Delivery Type popup (Figure 3.1.4_6)

47	Assignment / Task	Label	-	-	o	x	x	Display the text: "Assignment/ Task"
48	Concept/ Lecture	Label	-	-	o	x	x	Display the text: "Concept/ Lecture"
49	Guide/ Review	Label	-	-	o	x	x	Display the text: "Guide/ Review"
50	Test/ Quiz	Label	-	-	o	x	x	Display the text: "Test/ Quiz"
51	Exam	Label	x	-	o	x	x	Display the text: "Exam"
52	Seminar/ Workshop	Label	x	-	o	x	x	Display the text: "Seminar/ Workshop"

Table 3.1.4_2: Item and event description

3.1.5. Use case 5: List of Training Program

The screenshot shows a web-based training management system interface. At the top right, there is a logo for "uniGate" and a user profile for "Warrior Tran" with a "Log out" option. Below the header, the main content area is titled "Training program". It features a search bar and a filter button at the top. A table lists ten training programs with the following data:

ID	Program name	Created on	Created by	Duration	Status	Actions
121	C# basic program	21/07/2019	Warrior Tran	7 days	Active	...
245	.NET basic program	07/10/2021	Warrior Tran	12 days	Active	...
23	DevOps Foundation	10/11/2021	Mong Quynh	25 days	Inactive	...
47	DevOps Foundation_2	20/05/2022	Warrior Tran	24 days	Active	...
245	.NET basic program_3	30/03/2022	John Hubble	13 days	Active	...
245	IT Business Analyst Foundation_4	22/04/2021	Lily Heothi	9 days	Active	...
245	Fullstack Java Web Developer_3	04/03/2022	Warrior Tran	20 days	Active	...
245	Fullstack Java Web Developer_1	07/10/2018	Warrior Tran	19 days	Inactive	...
245	.NET basic program_2	06/08/2021	Heothi Bally	14 days	Active	...
245	Fullstack .NET Web Developer	11/11/2021	Warrior Tran	12 days	Active	...

At the bottom of the table, there are navigation icons for page numbers (1, 2, 3, ..., 10, >) and a "Rows per page" dropdown set to 10. The footer of the page contains the copyright notice "Copyright @2022 BA Warrior. All right reserved".

Figure 3.1.5_1: List of Training Program

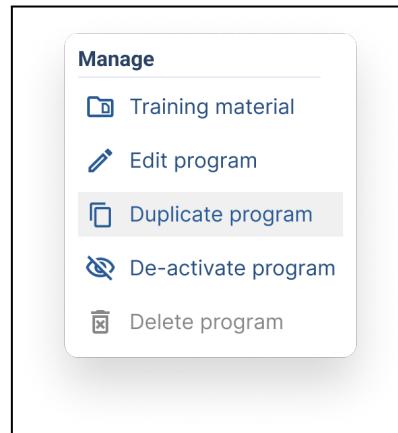


Figure 3.1.5_2: Pop-up functions

The screenshot shows a web-based application interface for managing training programs. The top navigation bar includes the logo 'FPT', the 'unGate' logo, and a user profile for 'Warrior Tran' with a 'Log out' option. The left sidebar contains a navigation menu with items like Home, Syllabus, Training program (selected), Class, Training calendar, User management, Learning materials, and Setting. The main content area is titled 'Training program' and displays a table of training programs. The table has columns for ID, Program name, Created on, Created by, Duration, and Status. A search bar at the top of the table shows the filter 'foundation'. The table lists several programs, including 'C# basic Foundation', '.NET basic foundation', 'DevOps Foundation', 'DevOps Foundation_2', '.NET foundation program_3', 'IT Business Analyst Foundation_4', 'Fullstack Java Web Developer Foundation', 'Fullstack Java Web Developer Foundation', '.NET foundation program_2', and 'Fullstack .NET Web Developer foudation'. Most programs are marked as 'Active', except for some 'Inactive' ones. At the bottom of the table, there are pagination controls (1-5) and a 'Rows per page' dropdown set to 10.

Figure 3.1.5_3: List of Training Program (filtered)

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
5	Web	View training program list	-System Admin -Admin Lead -Delivery Manager -Trainer	View Training Program List	View all Training Programs Search for training Program View details of a single training program Open training program creation form	N/A

Table 3.1.5_1: User story

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
----	------------------	------	-----------	------------	---------	----------------	--------------	----------	---------------------------

1	Training Program	Label	X	-	-	○	×		Training Program screen
2	Search box	Combo box	X	-	-	○	○	×	[Ev01] [Process Flow] Step 1: Search training program by keyword
3	Filter	Button	X	-	-	○	○	×	[Ev02] [Process Flow] Step 1: Filter training program
4	Import	Button	X	-	-	Δ	Δ	×	[Ev03] [Process Flow] Step 1: Import training program The template and file type has been defined
5	Add new	Button	X	-	-	Δ	Δ	×	[Ev04] [Process Flow] Step 1: Create new training program
6	ID	Label	X	-	-	○	×	×	Training Program ID will be auto generated when creating new one
7	Program name	Label	X	-	-	○	×	×	[Ev05] [Process Flow] Step 1: Click on field name can see the detailed training program
8	Created on	Calendar	Format: dd/mm/yyyy	-	-	○	×	×	This field displays Created Time
9	Created by	Label	X	-	-	○	×	×	This field displays Created user
10	Duration	Label	X	-	-	○	×	×	The duration of training program
11	Status	Label	X	-	-	○	×	×	The status of the training program. There are 2 values: active and inactive. Active by default.
12	Sort	Button	-	-	-	○	○	×	[Ev06] [Process Flow]

									Step 1: Sorting
13	More	Button	-	-	-	○	○	×	[Ev07] [Process Flow] Step 1: Show more features to modify training program
14	Page number	Button	-	-	-	Δ	○	×	Paging of training program screen
15	<	Button	-	-	-	Δ	○	×	[Ev08] [Process Flow] Step 1: Back to the previous page Only show when there is more than 1 page and the User is not at 1st page
16	>	Button	-	-	-	Δ	○	×	[Ev09] [Process Flow] Step 1: Go to the next page Only show when there is more than 1 page and the User is not at the final page
17	>	Button	-	-	-	Δ	○	×	[Ev10] [Process Flow] Step 1: Go to the final page
18	Rows per page	Button	-	-	-	○	○	×	[Ev11] [Process Flow] Step 1: Change number of Training Program in a screen
19	searching Tag	Button	-	-	-	Δ	○	×	[Ev12] [Process Flow] Step 1: Delete the tag
20	Training material	Button	-	-	-	Δ	○	×	[Ev13] [Process Flow] Step 1: Open Training Material popup
21	Edit program	Button	-	-	-	Δ	○	×	[Ev14] [Process Flow] Step 1: Edit training program

									Base on User's permission
22	Duplicate program	Button	-	-	-	Δ	○	×	[Ev15] [Process Flow] Step 1: Duplicate training program Base on User's permission
23	De-active program/ Active program	Button	-	-	-	Δ	○	×	[Ev16] [Process Flow] Step 1: Change status of training program Base on User's permission
24	List of training program	Label	X	-	-	Δ	○	×	Show all training program or show records corresponding to search tag

Table 3.1.5_2: Item and event description

3.1.6. Use Case 6: Training Program Details

The screenshot shows the 'Training program' section for the 'DevOps Foundation' program. The program is active and has a duration of 31 days (97 hours), last modified on 23/07/2022 by Warrior Tran. The content section lists several training modules:

- Linux** (Active): LIN v2.0 | 4 days (12 hours) | Modified on 23/07/2022 by Johny Deep
- AWS basic** (Active): AWB v1.0 | 7 days (21 hours) | Modified on 23/07/2022 by Warrior Tran
- Docker** (Active): DOC v1.5 | 3 days (12 hours) | Modified on 23/07/2022 by Warrior Tran
- Kubernetes** (Active): KUB v1.5 | 6 days (18 hours) | Modified on 23/07/2022 by Ba Chu Heo
- DevOps_CICD** (Active): DEC v2 | 8 days (24 hours) | Modified on 23/07/2022 by Ba Chu Heo
- Mock Project** (Inactive): MOC v2.5 | 3 days (12 hours) | Modified on 23/07/2022 by Ba Chu Heo

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Figure 3.1.6_1: Training Program Detail

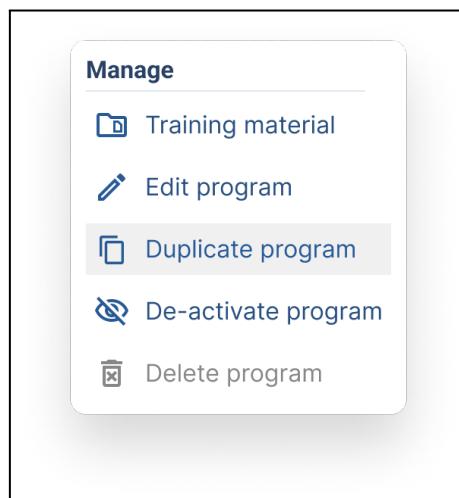


Figure 3.1.6_2: Manage Training Program

The screenshot shows the 'Training program' section for the 'DevOps Foundation' course. The sidebar on the left includes links for Home, Syllabus, Training program (selected), View program, Create program, Class, Training calendar, User management, Learning materials, and Setting. The main content area displays the course details: '31 days (97 hours)' and 'Modified on 23/07/2022 by Warrior Tran'. The 'Content' section is organized by day:

- Day 1:** Linux (Active)
 - Unit 6: MVC architecture in ASP.NET (6hrs)
 - MVC architectural pattern overview (K6SD, 10mins, Online, 2 people, 1 file)
 - ASP.NET MVC Version History (K6SD, 10mins, Offline, 2 people, 1 file)
 - ASP.NET MVC Folder Structure (K6SD, 30mins, Offline, 1 person, 1 file)
 - Controllers in ASP.NET MVC Application (K6SD, 30mins, Offline, 1 person, 1 file)
- Day 2:** Routing in MVC (5.5hrs)
 - Unit 7: Routing in MVC (5.5hrs)
 - Routing in MVC (K6SD, 10mins, Offline, 2 people, 1 file)
 - Route table (K6SD, 10mins, Offline, 2 people, 1 file)
 - URL Pattern in MVC (K6SD, 30mins, Offline, 1 person, 1 file)
 - Controllers in ASP.NET MVC Application (K6SD, 30mins, Offline, 1 person, 1 file)
- Day 3:** MVC architecture in ASP.NET (6hrs)
 - Unit 8: MVC architecture in ASP.NET (6hrs)
 - MVC architectural pattern overview (K6SD, 10mins, Offline, 2 people, 1 file)
 - ASP.NET MVC Version History (K6SD, 10mins, Offline, 2 people, 1 file)
 - ASP.NET MVC Folder Structure (K6SD, 30mins, Offline, 1 person, 1 file)
 - Controllers in ASP.NET MVC Application (K6SD, 30mins, Offline, 1 person, 1 file)
- Day 4:** Routing in MVC (5.5hrs)
 - Unit 9: Routing in MVC (5.5hrs)
 - Routing in MVC (K6SD, 10mins, Offline, 2 people, 1 file)
 - Route table (K6SD, 10mins, Offline, 2 people, 1 file)
 - URL Pattern in MVC (K6SD, 30mins, Offline, 1 person, 1 file)
 - Controllers in ASP.NET MVC Application (K6SD, 30mins, Offline, 1 person, 1 file)

A 'Back' button is located at the bottom left, and the footer contains the copyright notice: 'Copyright @2022 BA Warrior. All right reserved'.

Figure 3.1.6_3: Syllabus Detail



Figure 3.1.6_4: Go to Syllabus button

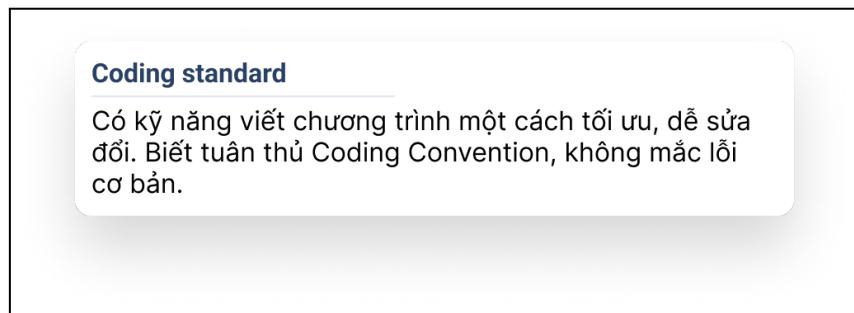


Figure 3.1.6_5: Output Standard

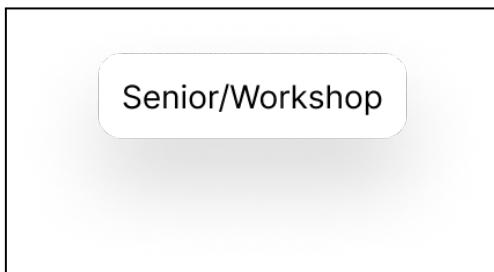


Figure 3.1.6_6: Tooltips for Delivery Type

The screenshot shows the 'Training program' section for 'DevOps Foundation'. The sidebar includes links for Home, Syllabus, Training program (active), View program, Create program, Class, Training calendar, User management, Learning materials, and Setting. The main content area displays 'Day 1', 'Day 2', and 'Day 3' sections. A modal window titled 'Unit 5 .NET Introduction' is open, listing four items: '.NET Introduction' (by Joseph on 12/03/2012), '.NET Introduction pattern in lorem.pdf' (by Joseph on 12/03/2012), 'What is future.youtube' (by Warrior Tran on 02/08/2022), and '.NET history.ppt' (by Warrior Tran on 02/08/2022). Below the modal, 'Day 4' shows 'Unit 8 MVC architecture in ASP.NET' (6hrs) and 'Unit 9 Routing in MVC' (5.5hrs). 'Day 3' shows 'Unit 4 MVC architecture in ASP.NET' (6hrs) and 'Unit 5 Routing in MVC' (5.5hrs). At the bottom, there is a 'Back' button and a copyright notice: 'Copyright @2022 BA Warrior. All right reserved'.

Figure 3.1.6_7: Training Material popup

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
6	Web	View Training Program Detail	End user	View details of a Training Program	- View Detailed Information of a Training Program - View and download Training Materials of a Training Program - Know the syllabus content of a Training Program - View details of the included Syllabus	N/A

Table 3.1.6_1: User story

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
Figure 3.1.6.1: Training Program Detail									
1	Training program name	Label	X	-	-	○	×	○	Name of training program
2	More icon	Button	-	-	-	○	○	×	More options
3	"Active/Inactive" field	Label	X	-	-	○	×	○	The status of the training program.
4	"31" in days field	Label	9	-	-	△	×	×	Total duration of training program in days
5	"97" in hours field	Label	9	-	-	△	×	×	Total duration of training program in hours
6	"Modified on 23/07/2022" field	Calendar	Format: dd/mm/yy yy	-	-	△	×	×	The latest modified date of training Program
7	"By Warrior Tran" field	Label	X	-	-	○	×	○	The user who modified the training program
8	Syllabus name	Label	X	-	-	△	×	×	The name of the syllabus.

									Automatically show syllabus corresponding
9	"Active/Inactive" field	Label	X	-	-	Δ	×	×	The status of the syllabus
10	"LIN v2.0" field	Label	X	-	-	Δ	×	×	The code and version of each syllabus
11	"4" in days field	Label	9	-	-	Δ	×	×	Time duration of each syllabus in days
12	"12" in hours field	Label	9	-	-	Δ	×	×	Time duration of each syllabus in hours
13	"Modified on 23/07/2022" field	Calendar	Format: dd/mm/yy yy	-	-	Δ	×	×	The latest modified date of each syllabus
14	"by Johny Deep" field	Label	X	-	-	Δ	×	×	The user who modified each syllabus

Figure 3.1.6.2: Manage Training Program

15	Training Material button	Button	-	-	-	Δ	○	×	[Ev01] [Process Flow] Step 1: System shows the Training Material popup
16	Edit training program button	Button	-	-	-	Δ	○	×	[Ev02] [Process Flow] Step 1: Show modifying options base on the permission of User
17	Duplicate training program button	Button	-	-	-	Δ	○	×	[Ev03] [Process Flow] Step 1: The system makes a copy of <training program name> Step 2: Go to "Edit Training Program"

									screen
18	De-activate/Activate training program button	Button	-	-	-	Δ	○	×	[Ev04] [Process Flow] Step 1: The system changes the status of the selected program from "Active" to "Inactive" or "Inactive" to "Active"

Figure 3.1.6.3: Syllabus Detail

19	Training program name	Label	X	-	-	○	×	○	Name of training program
20	"Active/Inactive" field	Label	X	-	-	○	×	○	The status of the training program.
21	"31" in days field	Label	9	-	-	Δ	×	×	Total duration of training program in days
22	"97" in hours field	Label	9	-	-	Δ	×	×	Total duration of training program in hours
23	"Modified on 23/07/2022" field	Calendar	Format: dd/mm/yy yy	-	-	Δ	×	×	The latest modified date of training Program
24	"By Warrior Tran" field	Label	X	-	-	○	×	○	The user who modified the training program
25	Syllabus name	Label	X	-	-	Δ	×	×	The name of the syllabus. Automatically show syllabus corresponding
26	"Active/Inactive" field	Label	X	-	-	Δ	×	×	The status of the syllabus
27	"LIN v2.0" field	Label	X	-	-	Δ	×	×	The code and version of the syllabus
28	"4" in days	Label	9	-	-	Δ	×	×	Time duration of

	field								the syllabus in days
29	"12" in hours field	Label	-	-	-	Δ	×	×	Time duration of the syllabus in hours
30	"Modified on 23/07/2022" field	Calendar	Format: dd/mm/yy yy	-	-	Δ	×	×	The latest modified date of the syllabus
31	"by Johny Deep" field	Label	X	-	-	Δ	×	×	The user who modified the syllabus
32	Arrow button	Button	-	-	-	Δ	○	×	[Ev05] [Process Flow] Step 1: Go to Syllabus Detail Screen [Figure 3.1.6.4: Go to Syllabus button]. The system shows the Syllabus Detail Screen of the current syllabus
33	Day	Label	X	-	-	Δ	×	×	Ascending by default
34	Collapse button	Button	-	-	-	Δ	○	×	[Ev06] [Process Flow] Collapse the content of unit At the Unit which button User clicks Step 1: Hide item 36 to 43 Step 2: Item 34 is switched to item 35
35	Extend button	Button	-	-	-	Δ	○	×	[Ev07] [Process Flow] At the Unit which button User clicks Step 1: Show item 36 to 43 Step 2: Item 35 is switched to item 34

36	Unit	Label	-	-	-	Δ	×	×	The order number of unit in a training program, ascending by default
37	Unit Name	Label	-	-	-	Δ	×	×	The name of unit
38	Unit hours	Label	-	-	-	Δ	×	×	Time duration of the unit in hours
39	Output standard	Label	-	-	-	Δ	×	×	[Ev08] [Process Flow] Step 1: Use hover at item 39 Step 2: The system shows corresponding item 40
40	Output standard popup	Textarea	-	-	-	Δ	×	○	Show the detail of output standing [Figure: 3.1.6.5: Output Standard]
41	Specific unit duration	Label	-	-	-	Δ	×	×	The duration of each topic in a unit
42	Delivery type icon		-	-	-	Δ	×	×	Delivery type of unit [Figure 3.1.6.6: Tooltip for Delivery Types]
43	"Training material" button	Button	-	-	-	Δ	○	×	[Ev09] [Process Flow] Step 1: The system shows the Training material popup at the center of the screen and clay background in the back
44	Back button	Button	-	-	-	○	○	×	[Ev10] [Process Flow] Step 1: Go back to the previous screen. The system

									shows the Training Program details screen
--	--	--	--	--	--	--	--	--	---

Figure 3.1.6.7: Training Material Popup

45	Material name	Link	-	-	-	Δ	○	Δ	[Ev11] [Process Flow] Step 1: Download training material and show as the name of the document and its type - If the Training Material is document type (pdf, word, xlsx), it is downloaded to User device - If the Training Material is URL type, the system opens it in the new tab of current User's web browser
46	by <user_name>	Label	-	-	-	Δ	×	Δ	The user who uploaded training material Format: Full name
47	on <upload_date>	Calendar	Format: dd/mm/yy yy	-	-	Δ	×	Δ	Uploaded date of training material
48	Edit training material	Button	-	-	-	Δ	Δ	Δ	[Ev12] [Process Flow] Step 1: The system shows choose popup for User to select 01 document in User's device Step 2: The system replaces new one

									Step 3: The system changes item 45, 46, 47 based on User's information
49	Delete training material	Button	-	-	-	Δ	Δ	Δ	[Ev13] [Process Flow] Step 1: The system soft-deletes the Training Material Delete training material, the user who has permission can do this action
50	Close button	Button	-	-	-	Δ	Δ	○	[Ev14] [Process Flow] Step 1: The system closes the Training Material popup

Table 3.1.6_2: Item and event description

3.1.7. Use case 7: Create Training Program

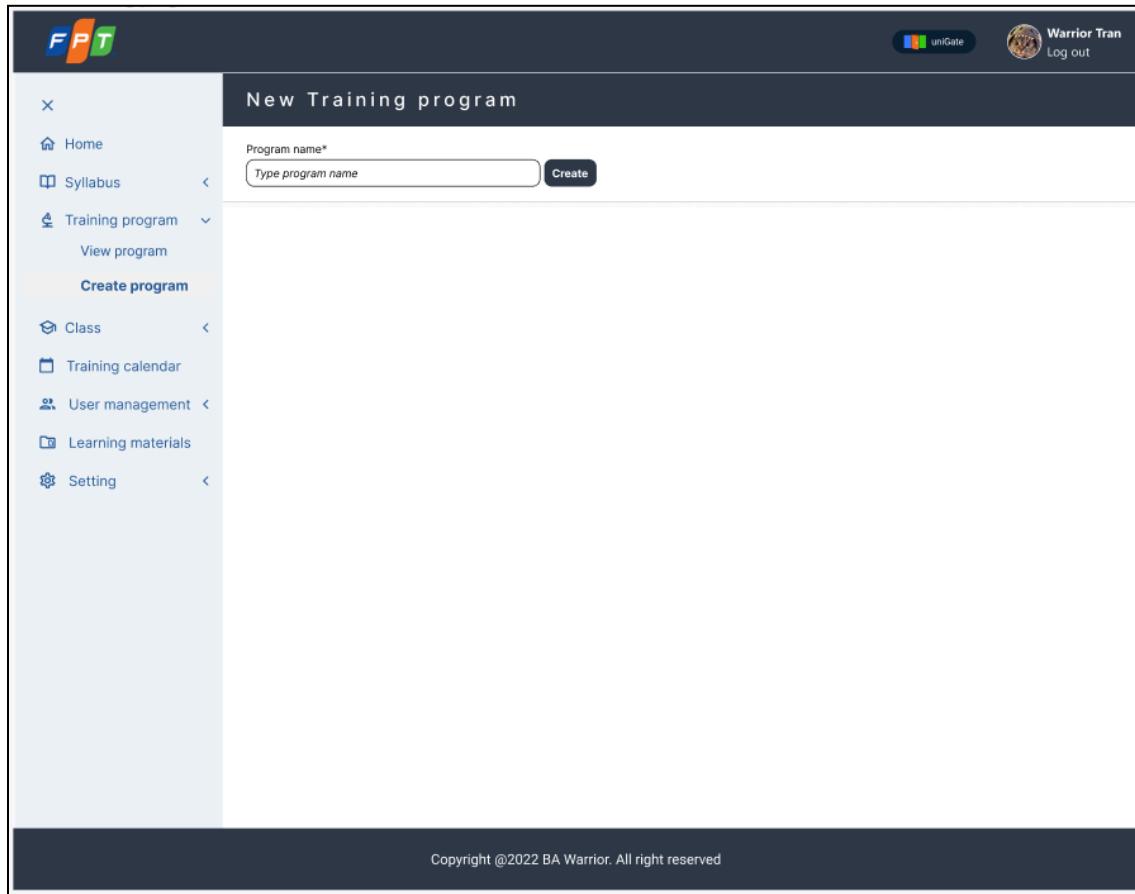


Figure 3.1.7_1: Create Training Program

The screenshot shows a web-based training management system interface. At the top right, there is a logo for "uniGate" and a user profile for "Warrior Tran" with a "Log out" option. The main title is "Training program" followed by the name "DevOps Foundation" in bold, with a status indicator "(Inactive)". Below the title, it says "...days (...hours)" and "Modified on 21/07/2022 by Warrior Tran". On the left, there is a sidebar with navigation links: Home, Syllabus, Training program (selected), View program, Create program, Class, Training calendar, User management, Learning materials, and Setting. The "Training program" link has a dropdown arrow indicating it is expanded. In the center, under the heading "Content", there is a search bar with the placeholder "Select syllabus" and a search icon, containing the text "Linux". At the bottom right of this section are "Back", "Cancel", and "Save" buttons. A copyright notice "Copyright @2022 BA Warrior. All right reserved" is at the bottom of the page.

Figure 3.1.7_2: Create Training Program_Add syllabus 1



Figure 3.1.7_3: Training Program_Syllabus popup

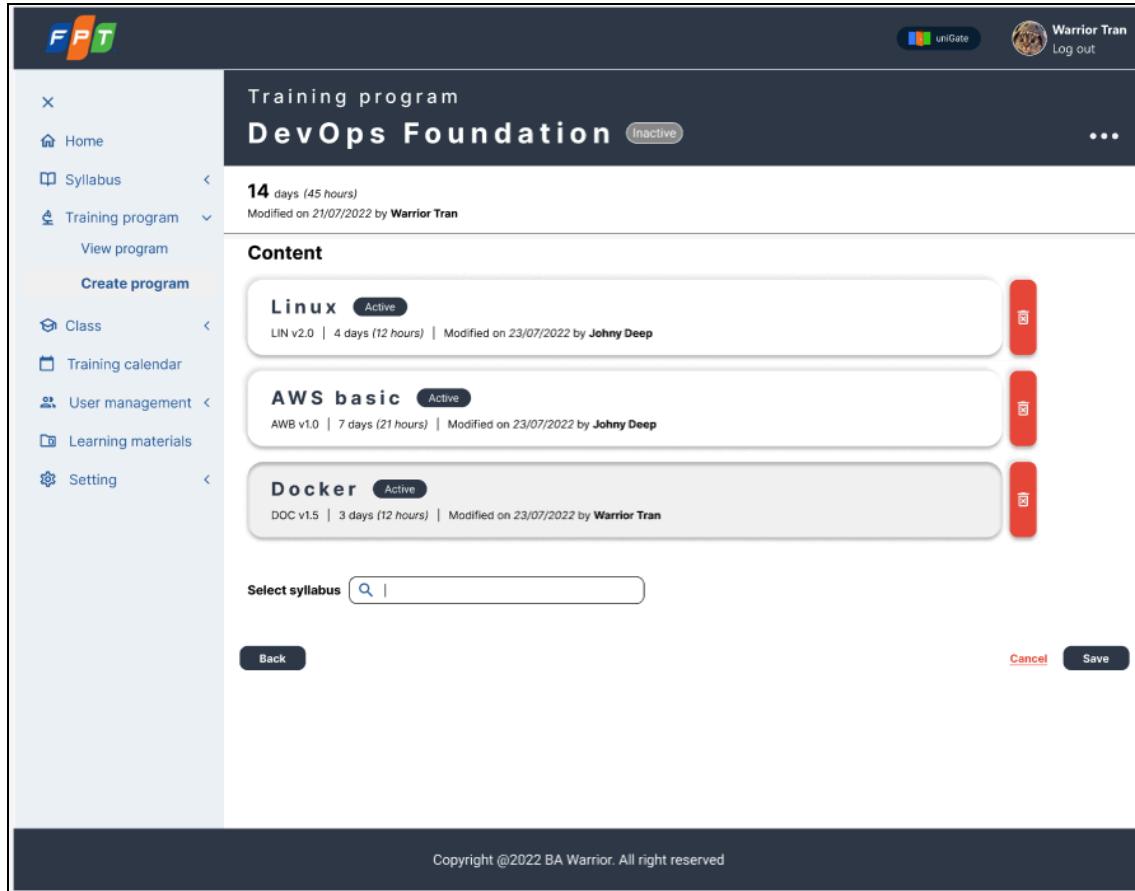


Figure 3.1.7_4: Create Training Program_Add syllabus 2

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
7	Web	Create new Training Program	End User	Create Training Program	Create new Training Programs Search Syllabus Drag & Drop Syllabus for Training Program	N/A

Table 3.1.7_1: User story

No	Screen item	Type	Attribute	Length	Display	Input	Required	Supplementary
----	-------------	------	-----------	--------	---------	-------	----------	---------------

	name			max	Yes/No	Yes/N o		explanation
1	Type program name box	Textbox	-	×	○	○	○	-
2	Create button	Button	-	×	○	Δ	○	[Ev01] [Process Flow] Step 1: -The system shows item 3 with the name's typed -The system shows item 4 with "Inactive" state -The system shows item 6 with current date -The system shows item 7 with current User's name
3	DevOps Foundation	Label	-	×	Δ	×	Δ	Show training program name
4	Active/Inactive	Tag	X	○	○	×	Δ	Show training program status
5	Duration	Label	-	×	Δ	×	Δ	Total duration from total duration of selected syllabus
6	Modified on <create_date>	Calendar	9	○	Δ	×	Δ	Show created date
7	by <user_name>	Label	X	×	Δ	×	Δ	Show the user's name who creates the Training Program
8	Select syllabus	Textbox	-	×	○	○	Δ	[Ev02] [Process Flow] Step 1: The system shows the syllabus corresponding to

								user typing
9	Back button	Button	—	×	Δ	Δ	Δ	[Ev03] [Process Flow] Step 1: The system back to the previous step in the screen
10	Save button	Button	—	×	Δ	Δ	Δ	[Ev04] [Process Flow] Step 1: The system creates Training Program with "inactive" status
11	Cancel button	button	—	×	Δ	Δ	Δ	[Ev05] [Process Flow] Step 1: Back to "List of Training Program" screen
12	Syllabus popup	Popup	-	×	Δ	Δ	Δ	[Ev06] [Process Flow] Step 1: User click on 1 syllabus Step 2: The system shows item 5 as total duration of selected syllabus Step 3: The system shows content of a syllabus
13	Syllabus name	Label	-	×	○	×	○	Name of syllabus
14	Duration	Label	-	×	Δ	×	Δ	The duration of syllabus
15	Modified on <create_date>	Calendar	9	○	Δ	×	Δ	Show created date of Syllabus
16	by <user_name>	Label	X	×	Δ	×	Δ	Show the user's name who created the syllabus

17	DevOps Foundation	Label	-	×	Δ	×	Δ	Show training program name
18	Active/Inactive	Tag	X	○	○	×	Δ	Show training program status
19	Duration	Label	-	×	Δ	×	Δ	Total duration from total duration of selected syllabus
20	Modified on <create_date>	Calendar	9	○	Δ	×	Δ	Show created date
21	by <user_name>	Label	X	×	Δ	×	Δ	Show the user's name who creates the Training Program
22	Select syllabus	Textbox	-	×	○	○	Δ	[Ev07] [Process Flow] The system shows the syllabus corresponding to user typing
23	Syllabus name	Label	-	×	○	×	○	Name of syllabus
24	Duration	Label	-	×	Δ	×	Δ	The duration of syllabus
25	Modified on <create_date>	Calendar	9	○	Δ	×	Δ	Show created date of Syllabus
26	by <user_name>	Label	X	×	Δ	×	Δ	Show the user's name who created the syllabus
27	Trash icon	Icon	-	x	Δ	Δ	Δ	[Ev08] [Process Flow] Step 1: User click on the button Step 2: The system deletes the selected syllabus

28	Back button	Button	—	×	Δ	Δ	Δ	[Ev09] [Process Flow] The system back to the previous step in the screen
29	Save button	Button	—	×	Δ	Δ	Δ	[Ev10] [Process Flow] The system creates Training Program with "inactive" status
39	Cancel button	button	—	×	Δ	Δ	Δ	[Ev11] [Process Flow] Back to "List of Training Program" screen

Table 3.1.7_2: Item and event description

3.1.8. Use case 8: List of Class

The screenshot shows a web application interface for managing training classes. The top navigation bar includes the FPT logo, a unIGate button, and a user profile for "Warrior Tran". The left sidebar has a tree structure with nodes like Home, Syllabus, Training program, Class (selected), View class, Create class, Training calendar, User management, Learning materials, and Setting. The main content area is titled "Training Class" and displays a table of training classes. The table columns are: Class, Class Code, Created on, Created by, Duration, Attendee, Location, and FSU. There are 10 rows of data, each with a "..." button. Above the table are search and filter buttons, and below it are pagination controls (1-10) and a "Rows per page" dropdown set to 10. The bottom of the page has a copyright notice: "Copyright @2022 BA Warrior. All right reserved".

Class	Class Code	Created on	Created by	Duration	Attendee	Location	FSU
DevOps Foundation	HCM22_FR_DevOps_01	22/04/2021	HaNTT2	36 days	Fresher	Ho Chi Minh	FHM
DevOps Foundation	HN22_FR.O_DevOps_01	22/04/2021	HaNTT2	36 days	Online fee-fresher	Ha Noi	FHM
BA Foundation	HN22_IN_BA_02	22/04/2021	HaNTT2	20 days	Intern	Ha Noi	FHM
Lorem Ipsum 1	HCM22_FR_DevOps_01	22/04/2021	HaNTT2	12 days	Fresher	Ho Chi Minh	FHM
Lorem Ipsum 2	HN22_IN_BA_03	22/04/2021	HaNTT2	12 days	Offline fee-fresher	Ho Chi Minh	FHM
Lorem Ipsum 213	HN22_FR.O_DevOps_21	22/04/2021	HaNTT2	12 days	Fresher	Ho Chi Minh	FHM
Lorem Ipsum 212	HN22_IN_BA_05	22/04/2021	HaNTT2	12 days	Intern	Ho Chi Minh	FHM
Lorem Ipsum 212	HN22_IN_BA_05	22/04/2021	HaNTT2	12 days	Intern	Ho Chi Minh	FHM
Lorem Ipsum 2122	HN22_FR.O_DevOps_04	22/04/2021	HaNTT2	12 days	Offline fee-fresher	Ho Chi Minh	FHM
Lorem Ipsum 2122	HN22_FR.O_DevOps_04	22/04/2021	HaNTT2	12 days	Offline fee-fresher	Ho Chi Minh	FHM

Figure 3.1.8_1: List of Class

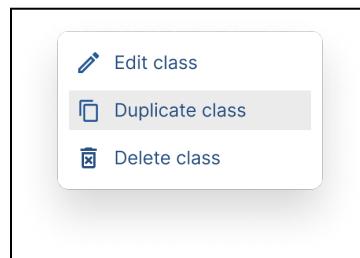


Figure 3.1.8_2: Pop up Management of List of Class

Filter

Class location
Ho Chi Minh Da Nang

Class time frame
from to

Class time Morning **Status** Planning
 Noon Openning
 Night Closed
 Online

Attendee Intern
 Fresher
 Online fee-fresher
 Offline fee-fresher

FSU **Trainer**

Figure 3.1.8_3: Filter screen of List of Class

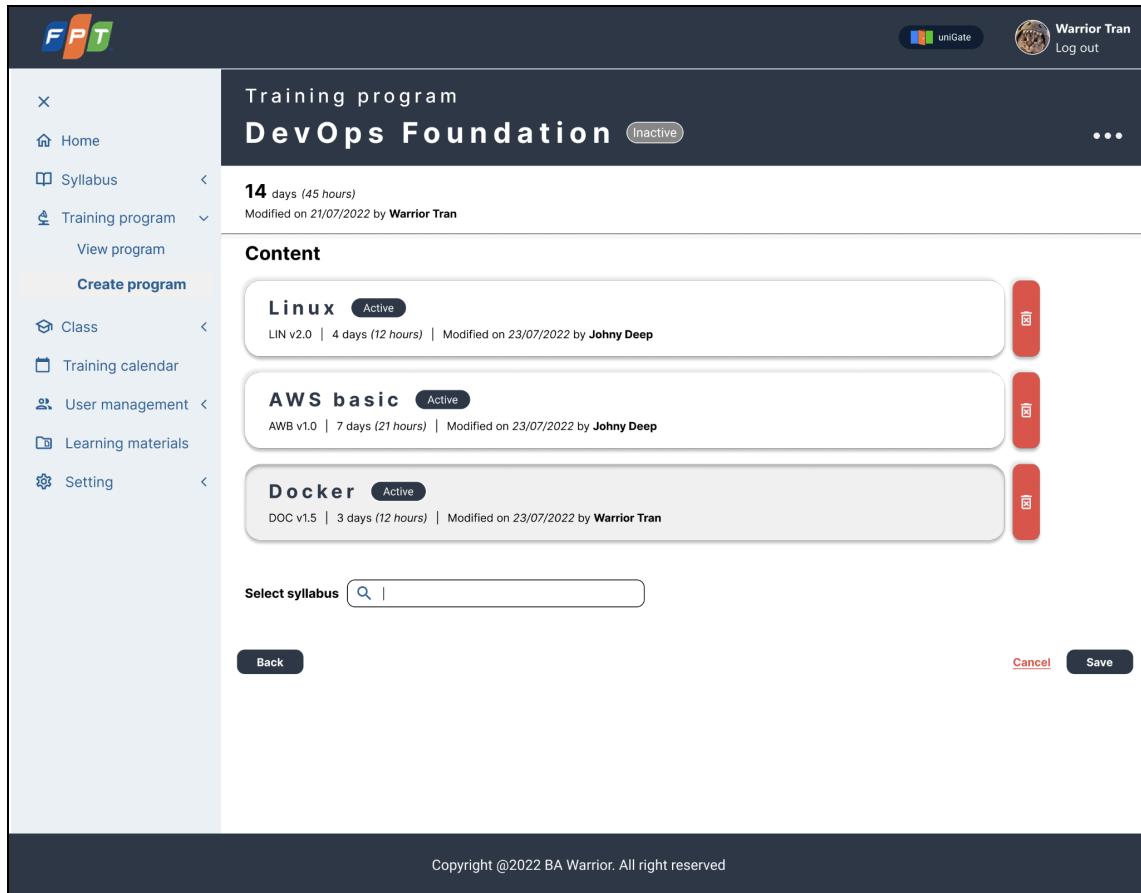


Figure 3.1.8_4: Screen Edit of List of Class

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
1	Web	View List of Class	End user	View details of List of Class	- Search class by Filter - Duplicate class - Edit Class - Delete Class	N/A

Table 3.1.8_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
----	------------------	------	-----------	------------	----------------	--------------	----------	---------------------------

Filter feature & List of Training Class								
1	Search by...	Textbox	×	100	○	○	×	Show up text for user input
2	Filter	Tooltip	-	-	○	×	×	Show up table filter
3	Class location	Combobox	-	-	○	×	△	Just show default location
4	Supplier	Listbox	-	-	○	×	△	Just show default supplier
5	Trainer	Listbox	-	-	○	×	△	Just show trainer from database trainer
6	Class time frame	Label	-	-	○	×	×	Choose time frame
7	From	Calendar	dd/mm/yy yy	-	○	○	×	-
8	To	Calendar	dd/mm/yy yy	-	○	○	△	-
9	Class time	Checkbox	-	-	○	×	△	Just show 4 options: Morning, Noon, Night, Online
10	Status	Checkbox	-	-	○	×	△	Just show 3 options: Planning, Opening, Closed
11	Clear	Button	-	-	○	×	×	[Ev01] [Process Flow] Step 1: Click on will clear all input data in table filter
12	Search	Button	-	-	○	×	×	[Ev02] [Process Flow] Step 1: Click on will search for suggestions from input data. After searching will show up in class according to searching + on July 2022. Show up arrow down icon for choosing row per page will show up

13	Previous, Next < >	Button	-	-	○	×	Δ	[Ev03] [Process Flow] Step 1: Click on for moving next page of searching result
14	Import	Button	-	-	○	×	×	Import list of class in default format form
15	Add Class	Button	-	-	○	×	×	[Ev04] [Process Flow] Step 1: Click on the Add Class button will go to screen Add new
16	Attendee	Checkbox	-	-	○	×	Δ	Just show 4 options of attendee type to choose

Training Class Detail Pop up Management

17	Edit Class	Button	-	-	○	×	×	[Ev05] [Process Flow] Step 1: Click on the Edit Class button will go to screen Edit
18	Duplicate	Button	-	-	○	×	×	[Ev06] [Process Flow] Step 1: Click on the Duplicate button, user will go to screen Edit BUT Class name change with the title: "Copy of....."
19	Delete	Button	-	-	○	×	×	[Ev07] [Process Flow] Step 1: Click on the Delete button, user will delete the syllabus

Table 3.1.8_2: Item and event description

3.1.9. Use case 9: Training Class Details

The screenshot displays the 'Fresher Develop Operation' class details in the SRS_FA Training Management System. The top navigation bar includes the FPT logo, a 'Log Out' button, and a 'Warrior Tran' user profile. The left sidebar shows a navigation menu with options like Home, Syllabus, Training program, Class (View class, Create class), Training calendar, User management, Learning materials, and Setting.

Class Details:

- Name:** Fresher Develop Operation
- ID:** HCM22_FR_DevOps_01
- Duration:** 31 days (97 hours)
- Class time:** 09:00 - 12:00
- Location:** Room2, Room1
- Trainer:** Dinh Vu Quoc Trung, Ba Chu Heo, Huu Chieu Ba, Tap The Loc
- Admin:** Ly Lien Lien Dang, Dang Lien Lien Ly
- FSU:** FHM, BaCh@fsoft.com.vn
- Created:** 25/03/2022 by DanPL
- Review:** 30/03/2022 by TrungDVQ
- Approve:** 02/04/2022 by VongNT

Attendee Status:

Planned	Accepted	Actual
10	9	9

Training Programs:

- DevOps Foundation** (31 days (97 hours) | Modified on 23/07/2022 by Warrior Tran)
 - Linux** (Active) LIN v2.0 | 4 days (12 hours) | on 23/07/2022 by Johnny Deep
 - AWS Basic** (Active) AWB v1.0 | 7 days (21 hours) | on 23/07/2022 by Warrior Tran
 - Docker** (Active) DOC v1.5 | 3 days (12 hours) | on 23/07/2022 by Warrior Tran
 - Kubernetes** (Active) KUB v1.5 | 6 days (18 hours) | on 23/07/2022 by Ba Chu Heo
 - DevOps_CICD** (Active) DEC v2 | 8 days (24 hours) | on 23/07/2022 by Ba Chu Heo
 - Mock Project** (Inactive) MOC v2.5 | 3 days (12 hours) | on 23/07/2022 by Ba Chu Heo
 - Field Trip** (Active) [1 days (5 hours)] | on 23/07/2022 by Ba Chu Heo

Figure 3.1.9_1: Training Class Details

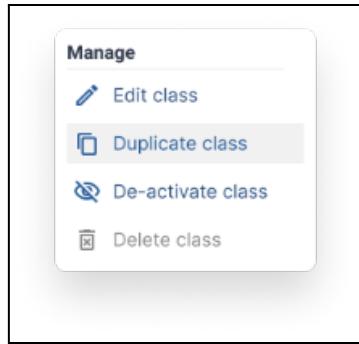


Figure 3.1.9_2: Manage a Training Class

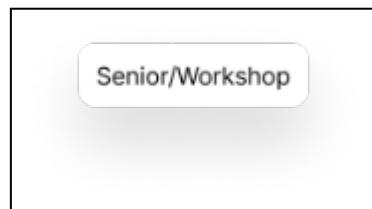


Figure 3.1.9_3: Delivery Type Tooltip



Figure 3.1.9_4: Trainer Information Tooltip

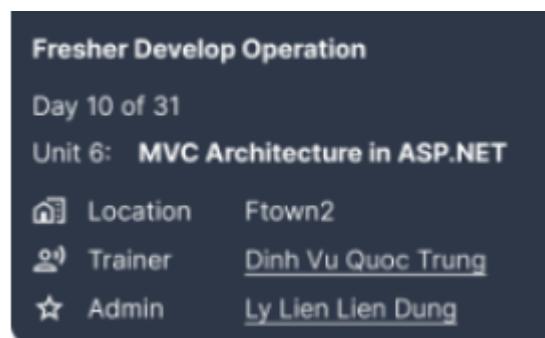


Figure 3.1.9_5: Class Detail Tooltip

The screenshot displays the 'FPT' Training Management System interface. On the left, a sidebar navigation includes Home, Syllabus, Training program, Class (selected), Training calendar, User management, Learning materials, Setting, and Calendar. The main content area shows a collapsed 'Class' section for 'Fresher Develop Operation' (HCM22_FR_DevOps_01) with a duration of 31 days (97 hours). A calendar for June 2022 is visible. Below the class details, a list of training programs is shown:

- Linux** Active: LN v2.0 | 4 days (12 hours) | on 23/07/2022 by Johny Deep
- AWS Basic** Active: AWB v1.0 | 7 days (21 hours) | on 23/07/2022 by Warrior Tran
- Docker** Active: DOC v1.5 | 3 days (12 hours) | on 23/07/2022 by Warrior Tran
- Kubernetes** Active: KUB v1.5 | 6 days (18 hours) | on 23/07/2022 by Ba Chu Heo
- DevOps_CICD** Active: DEC v2 | 8 days (24 hours) | on 23/07/2022 by Ba Chu Heo
- Mock Project** Inactive: MOC v2.5 | 3 days (12 hours) | on 23/07/2022 by Ba Chu Heo
- Field Trip** Active: FTD v1 | 1 days (5 hours) | on 23/07/2022 by Ba Chu Heo

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Figure 3.1.9_6: Class Detail Collapse

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
8	Web	Training Class details	End user	View Training Class details	<ul style="list-style-type: none"> -View Training Class details -Edit Training Class -Duplicate Training Class -De-active 	N/A

					syllabus -Delete Training Class	
--	--	--	--	--	------------------------------------	--

Table 3.1.9_1: User story

No	Screen item name	Type	Attribute	Length Max	Display Yes/ No	Input Yes/ No	Required	Supplementary explanation
1	Class	Label	X	5	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display the Module name
2	Class name	Label	X	80	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display Class name.
3	Class code	Label	X	40	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display Class code.
4	Class Status	Label	X	20	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display Class Status. Value list: Planning, Opening, Closed Default value: Planning
5	Class Manage	Dropdown-list	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Ev01] [Process Flow] Step 1: User clicks on the "Class manage" Step 2: System shows a list of options
6	Class Duration	Label	Format value: x days (y hours) x: total days of Class y: total hours of Class	20	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display duration of a Class.
7	Delivery Type	Icon	-	-	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Ev02] [Process Flow] Step 1: Hover the mouse to a certain Delivery Type Icon Step 2: The system shows The Delivery

								Type Detail Tooltip (Level/ Program Type)
Class manage popup (Figure 3.1.9_2)								
8	Manage	Label	-	-	Δ	x	x	Display the pop-up name
9	Edit Class	Button	-	-	Δ	x	x	[Ev03] [Process Flow] Step 1: [Ev1] Step 2: User clicks on the "Edit class" feature appearing on the list Step 3: System navigate to Edit Class screen
10	Duplicate Class	Button	-	-	Δ	x	x	[Ev04] [Process Flow] Step 1: The user clicks on the "Duplicate Class" feature appearing on the list Step 2: System shows screen Class Detail with Class name duplicate with a New Name Name of new Class: Copy of [Class name]
11	De-active Class	Button	-	-	Δ	x	x	[Ev05] [Process Flow] Step 1: On click, Class status is changed from Planning to Closed.
12	Delete Class	Button	-	-	Δ	x	x	Button only available for users with certain role permissions. [Ev06] [Process Flow] Step 1: User clicks on the "Delete Class"

								feature appearing on the list Step 2: The screen appears as a confirmation box. Step 3: If the User selects Yes, the system will soft-delete the Class. If the User select No, the box will disappear and the user will return to Class Detail Screen
--	--	--	--	--	--	--	--	---

Delivery Type tooltip (Figure 3.1.9_3)

13	Level/ Program Type	Label	X	20	Δ	x	x	[Ev07] [Process Flow] Step 1: Hover the mouse to a certain Delivery Type Icon Step 2: The system shows The Delivery Type Detail Tooltip (Level/ Program Type) Data is retrieved from Master Data.
----	------------------------	-------	---	----	---	---	---	--

Tab General

14	General	Label	-	-	○	x	x	Display the Tab name
15	Collapse	Button	-	-	○	x	x	[Ev08] [Process Flow] Step 1: The user clicks on the collapse button of the tabs they want to hide detailed information Step 2: Depending on which button the user clicks, the field containing that button will be collapsed

16	Class Time	Label	Format: hh:mm h: hour m: minute	20	<input type="radio"/>	x	x	Display the Start time and End time of a Class
17	Location	Label	X	20	<input type="radio"/>	x	x	Display where the class takes place
18	Trainer	Tooltip	X	80	<input type="radio"/>	x	x	<p>Display the trainers' names responsible for a class.</p> <p>There can be more than one trainer for a class</p> <p>[Ev09] [Process Flow]</p> <p>Step 1: Hover the mouse to a trainer's name</p> <p>Step 2: The system shows Trainer Information Tooltip for that trainer</p>
19	Admin	Label	X	80	<input type="radio"/>	x	x	<p>Display the admins' names responsible for a class.</p> <p>There can be more than one admin for a class</p>
20	FSU	Label	X	-	<input type="radio"/>	x	x	Display the FSU organizing a class
21	Created	Label	X	80	<input type="radio"/>	x	x	Display the Class Creator's name
22	Review	Label	X	80	<input type="delta"/>	x	x	<p>Display the Class Reviewer's name</p> <p>Only display when the class has been reviewed</p>
23	Approved	Label	X	80	<input type="delta"/>	x	x	<p>Display the Class Approver's name</p> <p>Only display when the class has been approved</p>
Trainer information Tooltip (Figure 3.1.9_4)								

24	Mobile phone	Label	9	10	Δ	x	x	Display trainer's mobile phone
25	Email	Label	X	40	Δ	x	x	Display trainer's email

Tab Time Frame

26	Time Frame	Label	X	20	○	x	x	Display the Tab name
27	Class Start and End Date	Label	Format: dd-mmm-y y d: Date m: Month y: Year	80	○	x	x	Display the Start Date and End Date of a Class
28	Collapse	Button	-	-	-	-	-	[Ev10] [Process Flow] Step 1: The user clicks on the collapse button of the tabs they want to hide detailed information Step 2: Depending on which button the user clicks, the field containing that button will be collapsed
29	Calendar	Calendar	-	-	○	x	x	Highlight all the dates a class occurring
30	Month Year	Label	X	20	○	x	x	
31	Normal Date	Label	X	2	○	x	x	
32	Highlighted date	Tooltip	X	2	Δ	x	x	[Ev11] [Process Flow] Step 1: hover the mouse to a highlighted date in the Calendar Step 2: System displays the Class detail tooltip for that date

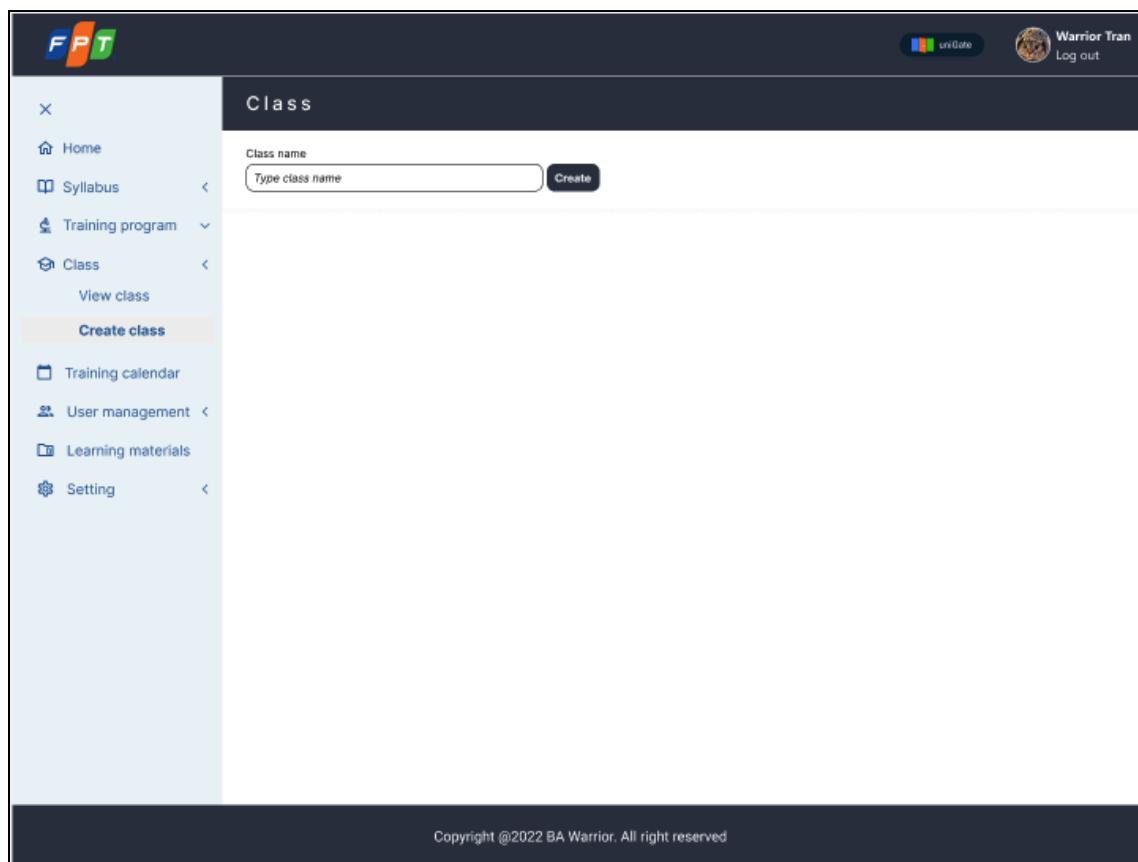
Class Detail Tooltip (Figure 3.1.9_5)

33	Class Name	Label	X	80	Δ	x	x	Display the Class name
----	------------	-------	---	----	---	---	---	------------------------

34	Date order	Label	Format: Day X of Y X: Current Date order Y: total dates of the class	-	Δ	x	x	Display the Date order out of the total dates of the class
35	Training Program Unit	Label	X	-	Δ	x	x	Display the Unit taught on that date
36	Location	Label	X	-	Δ	x	x	Display where the class takes place
37	Trainer	Label	X	-	Δ	x	x	Display the trainer's name
38	Admin	Label	X	-	Δ	x	x	Display the admin's name
Tab Attendee								
39	Attendee	Label	X	20	<input type="radio"/>	x	x	Display the Tab name
40	Fresher	Label	X	20	<input type="radio"/>	x	x	Display the Student Type
41	Planned	Label	9	3	<input type="radio"/>	x	x	Display the number of planned students joining a class
42	Accepted	Label	9	3	<input type="radio"/>	x	x	Display the number of accepted students for a class
43	Actual	Label	9	3	<input type="radio"/>	x	x	Display the number of actual students joining a class
Tab Training Program								
44	Training Program	Label	X	20	<input type="radio"/>	x	x	Display the Tab name
45	Training Program Name	Label	X	80	<input type="radio"/>	x	x	Display the Training Program name

46	Training Program Duration	Label	Format value: x days (y hours) x: total days of Class y: total hours of Class	20	<input type="radio"/>	x	x	Display duration of a Training Program.
47	Last edit Date	Label	Format: dd/mm/yy yy	-	<input type="radio"/>	x	x	Display the last edit date of a Training Program
48	Editor	Label	Format: By X X: User name	-	<input type="radio"/>	x	x	Display the last editor's name
Syllabus Detail								
49	Trainer's avatar	Picture	-	-	<input type="radio"/>	x	x	Display the trainer's profile picture There can be more than one picture
50	Syllabus's name	Label	X	80	<input type="radio"/>	x	x	Display the syllabus's name
51	Syllabus's status	Label	X	20	<input type="radio"/>	x	x	Display the syllabus's status Value: Active/Inactive
52	Syllabus's short name	Label	X	10	<input type="radio"/>	x	x	Display syllabus's short name
53	Syllabus Duration	Label	Format value: x days (y hours) x: total days of Class y: total hours of Class	20	<input type="radio"/>	x	x	Display the duration of a Syllabus.

54	Last edit Date	Label	Format: dd/mm/yy yy	-	<input type="radio"/>	x	x	Display the last edit date of a Syllabus
55	Editor	Label	Format: By X X: User name	-	<input type="radio"/>	x	x	Display the last editor's name

Table 3.1.9_2: Item and event description**3.1.10. Use case 10: Create new training class****Figure 3.1.10_1: Create class name**

Screen on web	Platform	Function	As a <type of	I want to <perform a	So that I can <achieve	Business rule
---------------	----------	----------	---------------	----------------------	------------------------	---------------

			user>	task>	some goals>	
9	Web	Add new class	End user	Create new class	Start add detail and information	N/A

Table 3.1.10_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Class	Label	x	5	<input type="radio"/>	x	x	Module name
2	Class name	Label	x	80	<input type="radio"/>	x	x	Class name
3	Text box	Text box	x	80	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Default value: “Type class name”
4	Create	Button	x	x	<input type="radio"/>	x	x	After user selects Create button, system shows Add training program

Class

Fresher Develop Operation Planning

31 days (97 hours) |

General

Time
from 09:00 to

Location
Trainer

Admin

FSU

contact point

Attendee

Planned
Accepted
Actual

Training Program
Attendee list
Budget
Others

DevOps Foundation Edit

31 days (97 hours) | Modified on 23/07/2022 by Warrior Train

Linux Active

LIN v2.0 | 4 days (12 hours) | on 23/07/2022 by Johny Deep

AWS Basic Active

AWB v1.0 | 7 days (21 hours) | on 23/07/2022 by Warrior Train

Docker Active

DOC v1.5 | 3 days (12 hours) | on 23/07/2022 by Warrior Train

Kubernetes Active

KUB v1.5 | 6 days (18 hours) | on 23/07/2022 by Ba Chu Heo

DevOps_CICD Active

DEC v2 | 8 days (24 hours) | on 23/07/2022 by Ba Chu Heo

Mock Project Inactive

MOC v2.5 | 3 days (12 hours) | on 23/07/2022 by Ba Chu Heo

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Figure 3.1.10_2: Add training program general information

No	Screen item	Type	Attribute	Length	Display	Input	Required	Supplementary
----	-------------	------	-----------	--------	---------	-------	----------	---------------

Internal use

85/118

	name			max	Yes/No	Yes/ No		explanation
1	Class	Label	x	5	<input type="radio"/>	x	x	Module name
2	Class name	Label	x	80	<input type="radio"/>	x	x	Display the value user input in Create class
3	Class Status	Label	x	15	<input type="radio"/>	x	x	Display current status of class “Planning, Opening, Closed”
4	Days	Label	x	5	<input type="radio"/>	x	x	Total duration in day of that class
5	hours	Label	x	5	<input type="radio"/>	x	x	Total duration in hours of that class
General								
6	Class time	Label	Format: hh:mm – hh:mm h: hour m: minute	20	<input type="radio"/>	x	x	Display the Start time and End time of a Class
7	From	Time picker	h: hour m: minute	20	<input type="radio"/>	x	x	Display in hours and minutes
8	To	Time picker	h: hour m: minute	20	<input type="radio"/>	x	x	Display in hours and minutes
9	Location	Label	x	20	<input type="radio"/>	x	x	Display where the class takes place
10	Trainer	Tooltip	x	80	<input type="radio"/>	x	x	Display the trainers' names responsible for a class. There can be more than one trainer for a class [Process Flow] Step 1: Hover the mouse to a trainer's name Step 2: The system shows Trainer Information Tooltip for that trainer
11	Admin	Combobox	x	80	<input type="radio"/>	x	x	Display the admins' names responsible for

								a class. There can be more than one admin for a class
12	FSU	Combobox	x	-	o	x	x	Display the FSU organizing a class
13	Contact Point	Combobox	x	-	o	x	x	Choose contact point
14	Created	Label	x	80	o	x	x	Display the Class Creator's name
15	Review	Label	x	80	Δ	x	x	Display the Class Reviewer's name Only display when the class has been reviewed
16	Approve	Label	x	80	Δ	x	x	Display the Class Approver's name Only display when the class has been approved
Time Frame								
17	Start date	Label	Format: dd-mmm-yy yy d: Date m: Month y: Year	80	o	x	x	Display the Start Date and End Date of a Class
18	End date	Label	Format: dd-mmm-yy yy d: Date m: Month y: Year	80	o	x	x	Display the Start Date and End Date of a Class
19	Calendar	Calendar	-	-	Yes	x	x	Highlight all the dates a class occurring
Attendee								
20	Level	Dropdown list	X	20	o	x	x	Display the Student Type
21	Planned	Textbox	9	3	o	x	x	Display the number of planned students joining a class

22	Accepted	Textbox	9	3	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display the number of accepted students for a class
23	Actual	Textbox	9	3	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Display the number of actual students joining a class
24	Training Program	Tab	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Expand the selected tab
25	Edit	Button	-	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Edit training program name
26	Attendee list	Tab	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Expand the selected tab
27	Budget	Tab	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Expand the selected tab
28	Others	Tab	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Expand the selected tab
29	Cancel	Button	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Back to List of Class
30	Save as draft	Button	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Save
31	Next	Button	X	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Move to Add training program details

The screenshot shows the 'Training program of Fresher Develop Operation DevOps Foundation' page. The sidebar on the left includes links for Home, Syllabus, Training program, Class (with View class and Create class options), Training calendar, User management, Learning materials, and Setting. The main content area displays six training modules: Linux (Active), AWS Basic (Active), Docker (Active), Kubernetes (Active), DevOps_CICD (Active), and Mock Project (Inactive). Each module card includes a thumbnail, name, status, duration, and last modified date. A search bar at the bottom allows users to add syllabus or select one. The footer contains copyright information and navigation buttons for Back, Cancel, and Save.

Figure 3.1.10_3: Add training program details

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Last edit Date	Label	Format:	-	Yes	No	No	Display the last edit

			dd/mm/yyyy					date of a Training Program
2	Editor	Label	Format: By X X: User name	-	Yes	No	No	Display the last editor's name
Add syllabus								
3	Trainer's avatar	Picture	-	-	Yes	No	No	Display the trainer's profile picture There can be more than one picture
4	Syllabus's name	Label	X	80	Yes	No	No	Display the syllabus's name
5	Syllabus's status	Label	X	20	Yes	No	No	Display the syllabus's status Value: Active/ Inactive
6	Syllabus's short name	Label	X	10	Yes	No	No	Display syllabus's short name
7	Syllabus Duration	Label	Format value: x days (y hours) x: total days of Class y: total hours of Class	20	Yes	No	No	Display the duration of a Syllabus.
8	Last edit Date	Label	Format: dd/mm/yyyy	-	Yes	No	No	Display the last edit date of a Syllabus
9	Editor	Label	Format: By X X: User name	-	Yes	No	No	Display the last editor's name
10	Delete	Button	x	x	Yes	No	No	Delete one syllabus
11	Add Syllabus	Button	x	x	Yes	No	No	Add new
12	Select	Textbox	x	x	Yes	No	No	User can input to search available syllabus
13	Back	Button	x	x	Yes	No	No	Previous step with saving new changes
14	Cancel	Button	x	x	Yes	No	No	Previous step without saving.
15	Save	Button	x	x	Yes	No	No	Display Add training program details for each Day

The screenshot shows the 'Content' section of a training program titled 'DevOps Foundation'. The program has a duration of 31 days (97 hours) and was modified on 23/07/2022 by Warrior Tran. The content is organized into days:

- Day 1:** Linux (Active). Includes: LIN v2.0 (4 days / 12 hours), MVC architecture in ASP.NET (6hrs), Routing in MVC (5.5hrs).
- Day 2:** MVC architecture in ASP.NET (6hrs), Routing in MVC (5.5hrs).
- Day 3:** MVC architecture in ASP.NET (6hrs), Routing in MVC (5.5hrs).
- Day 4:** MVC architecture in ASP.NET (6hrs), Routing in MVC (5.5hrs).

Each item includes a thumbnail, title, duration, and a list of actions (Delete, Edit, View, Print, Copy, etc.). A 'Back' button is at the bottom left, and a copyright notice 'Copyright @2022 BA Warrior. All right reserved' is at the bottom right.

Figure 3.1.10_4: Add training program details for each Day (Content)

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Syllabus name	Label	X	80	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the syllabus's name
2	Day number	Label	X	5	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the day number
3	Unit number	Label	X	3	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the unit number
4	Name of the unit	Label	X	50	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the name of the unit
5	Duration of that unit	Label	X	5	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the duration of that unit
6	Topic for training name	Label	X	80	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the topic for training name
7	Duration for each topic	Label	X	5	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the duration for each topic
8	Status (online/offline)	Label	X	20	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the status of the class
9	Trainer account	Label	X	30	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the trainer account
10	Location for each unit	Label	X	30	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Display the location for each unit

3.1.11. Use case 11: Training Calendar

The screenshot shows the 'Training Calendar' interface. At the top, there's a navigation bar with the 'uniGate' logo and a user icon labeled 'Warrior Tran Log out'. On the left, a sidebar lists navigation items: Home, Syllabus, Training program, Class, Training calendar (selected), User management, Learning materials, and Setting. Below the sidebar is a search bar and a 'Filter' button.

The main area displays a weekly calendar for June 2022. The days of the week are listed at the top: SUN, MON, TUE, WED, THU, FRI, SAT. The date 'June 2022' is centered above the grid. A navigation bar below the days includes arrows for navigating between weeks and months, and tabs for 'Day' and 'Week' views.

The calendar grid shows time slots from 8:00 to 22:00. The 'Morning' section (8:00 - 12:00) contains three events: HCM22_FR.BA_02 (Business Foundation), HN22_FR.DevOps_01 (DevOps Foundation), and DN22_FR.DevOps_05 (Develop Operation Foundation). The 'Day 10 of 20' event is highlighted with a blue box, showing details: Location (HN.Fville), Trainer (Dinh Vu Quoc Trung), and Admin (Ly Lien Len Dung).

The 'Noon' section (13:00 - 17:00) shows events for DN22_FR.NET_02 (.NET Foundation) and HCM22_FR.O.DevOps_02 (DevOps).

The 'Night' section (18:00 - 22:00) shows events for HCM22_FR.BA_02 (Business Foundation), HN22_FR.BA_02 (Business Foundation), DN22_FR.NET_02 (.NET Foundation), and QN22_FR.DevOps_01 (DevOps Foundation).

Figure 3.1.11_1: Training Calendar main view

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
10	Web	Calendar	End user	See the training Calendar	Manage, tracking and follow up all classes that be added on in created class	N/A

Table 3.1.11_1: User story

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
Training Calendar main view								
1	Search by...	Textbox	-	100	○	○	×	[Ev01] [Process Flow] Step 1: User input information that they want to search Step 2: Search all the class according to the input information
2	Filter	Tooltip	-	-	○	×	×	[Ev02] [Process Flow] Step 1: Click on Filter Step 2: Show up the table filter
3	Day	Button	-	-	○	×	×	A tab to search class by day
4	Week	Button	-	-	○	×	×	A tab to search class by week
5	June 2022	Button	-	-	○	×	△	Month and Year user want to search, User can input and choose the time they want
6	Previous, Next <>	Button	-	-	○	×	△	[Ev03] [Process Flow] Step 1: Click on to <> Step 2: Search move backward or forward 1 click is 1 month move
7	Calendar Base	Table	-	-	○	×	○	Show the day in month When user click on 1 day, will show all class

								based on which tab they choose [Ev04] [Process Flow] Step 1: Choose Tab Day, Click on 1 day Step 2: Will show all classes on this day. [Ev05] [Process Flow] Step 1: Choose Tab Week - Click on 1 day Step 2: Will show all class in the week contains this day
8	Session Time Morning/Noon/Night	Label	-	-	○	×	Δ	Show up the class's session which is based on the user's search. Morning: (8:00-12:00) Noon: (13:00-17:00) Night: (18:00-22:00) When user roll down, the session time will short up (just keep the bar Morning/ Noon/Night)

Table 3.1.11_2: Item and event description

Filter

Class location

X

Class time frame

from to

Class time

Morning

Noon

Night

Online

Status

Planning

Opening

Closed

Attendee

Intern

Fresher

Online fee-fresher

Offline fee-fresher

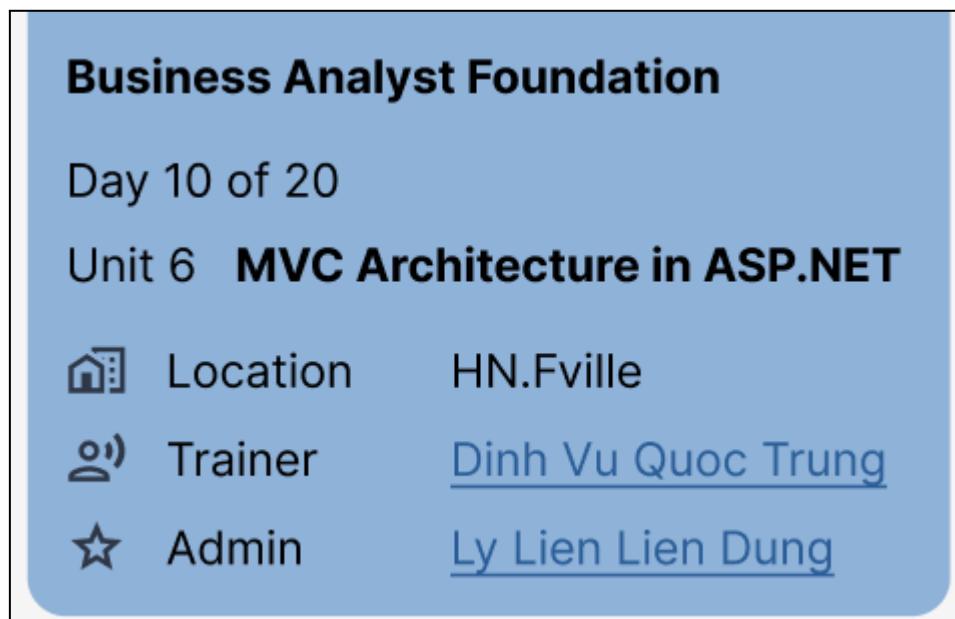
FSU

Trainer

Figure 3.1.11_2: Table Filter

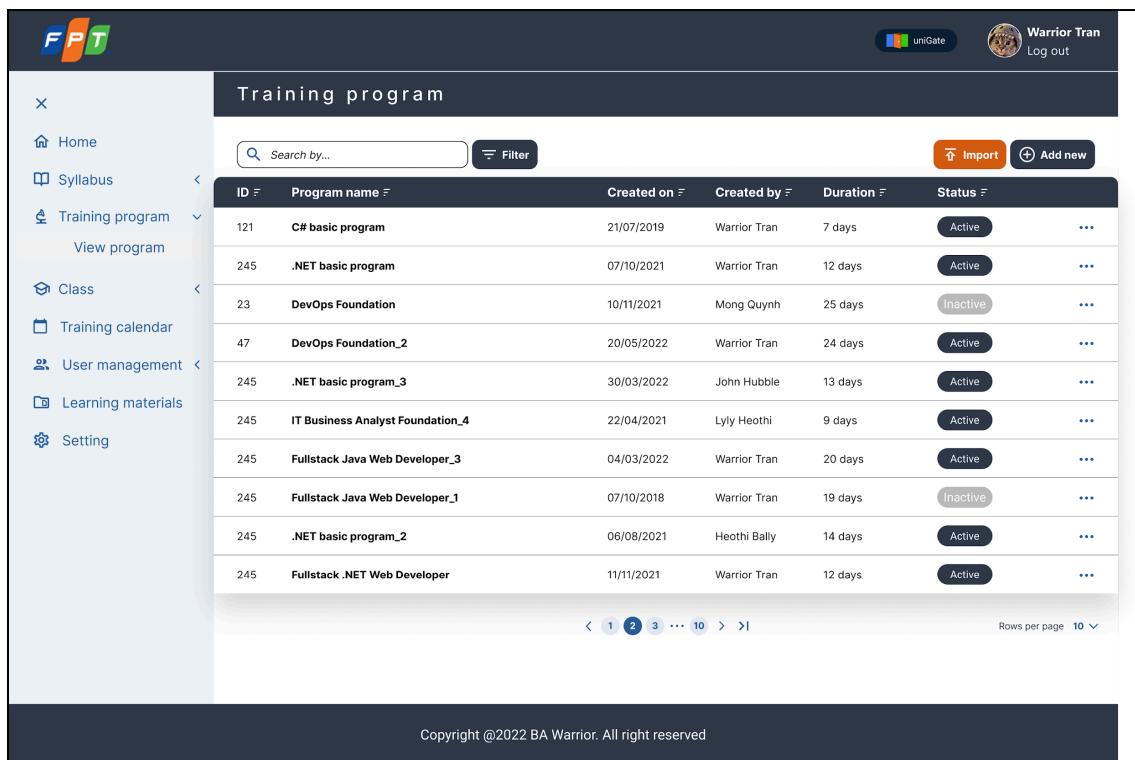
No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/No	Required	Supplementary explanation
Table Filter								
1	Class location (In table Filter)	Combobox	-	-	○	×	Δ	[Ev08] [Process Flow] Step 1: Input the location information Step 2: Show up suggestion location that be input already such as HCM, DN, HN
2	FSU	Listbox	-	-	○	×	Δ	[Ev09] [Process Flow] Step 1: Input the Supplier information Step 2: Show up suggestion supplier which be input before
3	Trainer	Listbox	-	-	○	×	Δ	[Ev10] [Process Flow] Step 1: Input the trainer information Step 2: Show up

								suggestion trainer which be input before
4	Class time frame	Label	-	-	○	×	×	Display the information that it's time frame
5	From	Calendar	dd/mm/yy yy	-	○	○	×	User choose the date to start the class.
6	To	Calendar	dd/mm/yy yy	-	○	○	Δ	User choose the date to end the class.
7	Class time	Checkbox	-	-	○	×	Δ	[Ev11] [Process Flow] Step 1: User can choose the class time in morning, afternoon, evening, online Step 2: Show the tick on chosen time
8	Status	Checkbox	-	-	○	×	Δ	[Ev12] [Process Flow] Step 1: User can choose the status Step 2: Show the tick on chosen time
9	Attendee	Checkbox	-	-	○	×	Δ	[Ev13] [Process Flow] Step 1: User can choose the attendee Step 2: Show the tick on chosen time
10	Clear	Button	-	-	○	×	×	[Ev14] [Process Flow] User click on and clear all information that be input before in table filer
11	Search	Button	-	-	○	×	×	[Ev15] [Process Flow] User click on and search all classes that match these input information

Table 3.1.11_3: Item and event description**Figure 3.1.11_3: Class info - view**

No	Screen item name	Type	Attribute	Length max	Display Yes/No	Input Yes/ No	Required	Supplementary explanation
Class info - view								
1	Business Analyst Foundation	Label	-	-	○	×	×	Display the class name which format: Class code Class name
2	Order of class session in total	Label	-	-	○	×	Δ	Display the order of the day that class is running per total number of days that class may happen. Example: "Day 10 of 20" (the day 10th out of the total number day in class which is 20) Min: 0 max: 100
3	Course Unit	Label	-	-	○	×	Δ	Display the course's unit in this day that be input in create class

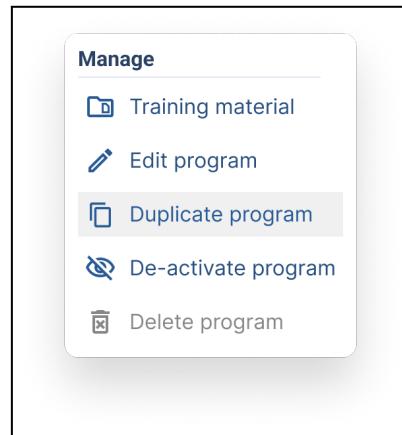
4	Location	Label	-	-	○	×	Δ	Display the Location that be input in create class
5	Trainer	Label	-	-	○	×	Δ	Display the Trainer that be input in create class
6	Admin	Label	-	-	○	×	Δ	Display the Admin that be input in create class

Table 3.1.11_4: Item and event description**3.1.12. Use case 12: List of Trainer**


The screenshot shows a web-based application interface for managing training programs. The top navigation bar includes the FPT logo, a uniGate icon, and a user profile for "Warrior Tran". The left sidebar contains a navigation menu with links: Home, Syllabus, Training program (selected), Class, Training calendar, User management, Learning materials, and Setting. The main content area is titled "Training program" and displays a table of training programs. The table columns are: ID, Program name, Created on, Created by, Duration, and Status. The data in the table is as follows:

ID	Program name	Created on	Created by	Duration	Status
121	C# basic program	21/07/2019	Warrior Tran	7 days	Active
245	.NET basic program	07/10/2021	Warrior Tran	12 days	Active
23	DevOps Foundation	10/11/2021	Mong Quynh	25 days	Inactive
47	DevOps Foundation_2	20/05/2022	Warrior Tran	24 days	Active
245	.NET basic program_3	30/03/2022	John Hubble	13 days	Active
245	IT Business Analyst Foundation_4	22/04/2021	Lyly Heothi	9 days	Active
245	Fullstack Java Web Developer_3	04/03/2022	Warrior Tran	20 days	Active
245	Fullstack Java Web Developer_1	07/10/2018	Warrior Tran	19 days	Inactive
245	.NET basic program_2	06/08/2021	Heothi Bally	14 days	Active
245	Fullstack .NET Web Developer	11/11/2021	Warrior Tran	12 days	Active

Pagination controls and a "Rows per page" dropdown are visible at the bottom of the table. The footer of the page contains the copyright notice "Copyright @2022 BA Warrior. All right reserved".

Figure 3.1.12_1: List of Trainer**Figure 3.1.12_2: Pop-up functions**

ID	Program name	Created on	Created by	Duration	Status	Actions
121	C# basic Foundation	21/07/2019	Warrior Tran	7 days	Inactive	...
245	.NET basic foundation	07/10/2021	Warrior Tran	12 days	Active	...
23	DevOps Foundation	10/11/2021	Warrior Tran	25 days	Inactive	...
47	DevOps Foundation_2	20/05/2022	Warrior Tran	24 days	Inactive	...
245	.NET foundation program_3	30/03/2022	Warrior Tran	13 days	Active	...
245	IT Business Analyst Foundation_4	22/04/2021	Warrior Tran	9 days	Active	...
245	Fullstack Java Web Developer Foundation	04/03/2022	Warrior Tran	20 days	Active	...
245	Fullstack Java Web Developer Foundation	07/10/2018	Warrior Tran	19 days	Inactive	...
245	.NET foundation program_2	06/08/2021	Warrior Tran	14 days	Active	...
245	Fullstack .NET Web Developer foudation	11/11/2021	Warrior Tran	12 days	Active	...

Figure 3.1.12_3: List of Training Program (filtered)

Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
12	Web	View trainer list	-System Admin -Admin Lead	View Trainer List	View all Trainer Search for trainer View details of a single trainer Open trainer creation form	N/A

Table 3.1.5_1: User story

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Trainer	Label	X	-	-	○	×		Trainer List screen
2	Search box	Combo box	X	-	-	○	○	×	[Ev01] [Process Flow] Step 1: Search trainer by keyword
3	Filter	Button	X	-	-	○	○	×	[Ev02] [Process Flow] Step 1: Filter trainer
4	Import	Button	X	-	-	Δ	Δ	×	[Ev03] [Process Flow] Step 1: Import trainer The template and file type has been defined
5	Add new	Button	X	-	-	Δ	Δ	×	[Ev04] [Process Flow] Step 1: Add new trainer

6	ID	Label	X	-	-	○	×	×	Trainer ID will be auto generated when adding new one
7	Fullname	Label	X	-	-	○	×	×	[Ev05] [Process Flow] Step 1: Click on field name can see the detailed trainer
8	Account	Label	X	-	-	○	×	×	This field displays Account
9	Email	Label	X	-	-	○	×	×	This field displays Email
10	Phone	Label	X	-	-	○	×	×	This field displays Phone
11	Gender	Label	X	-	-	○	×	×	This field displays Gender
12	Sort	Button	-	-	-	○	○	×	[Ev06] [Process Flow] Step 1: Sorting
13	More	Button	-	-	-	○	○	×	[Ev07] [Process Flow] Step 1: Show more features to modify trainer
14	Page number	Button	-	-	-	△	○	×	Paging of list trainer screen
15	<	Button	-	-	-	△	○	×	[Ev08] [Process Flow] Step 1: Back to the previous page Only show when there is more than 1 page and the User is not at 1st page
16	>	Button	-	-	-	△	○	×	[Ev09] [Process Flow]

									Step 1: Go to the next page Only show when there is more than 1 page and the User is not at the final page
17	>	Button	-	-	-	Δ	○	×	[Ev10] [Process Flow] Step 1: Go to the final page
18	Rows per page	Button	-	-	-	○	○	×	[Ev11] [Process Flow] Step 1: Change number of Trainer in a screen
19	searching Tag	Button	-	-	-	Δ	○	×	[Ev12] [Process Flow] Step 1: Delete the tag
20	Training material	Button	-	-	-	Δ	○	×	[Ev13] [Process Flow] Step 1: Open Training Material popup
21	Edit program	Button	-	-	-	Δ	○	×	[Ev14] [Process Flow] Step 1: Edit training program Base on User's permission
22	Duplicate program	Button	-	-	-	Δ	○	×	[Ev15] [Process Flow] Step 1: Duplicate training program Base on User's permission
23	De-active program/	Button	-	-	-	Δ	○	×	[Ev16] [Process Flow]

	Active program								Step 1: Change status of training program Base on User's permission
24	List of training program	Label	X	-	-	Δ	○	×	Show all training program or show records corresponding to search tag

Table 3.1.12_2: Item and event description**3.1.13. Use case 13: Trainer Detail**

The diagram illustrates a Use Case interface for 'Trainer Detail'. At the top, there is a header section with a 'LOGO' placeholder and a 'TRAINER DETAILS' title. Below this, on the left, is a sidebar with a dropdown menu labeled 'Trainer' and a link 'View Trainer'. The main content area is divided into two sections: 'Detail info' and 'Assigned classes'. Under 'Detail info', there are four fields: 'Account' (CongHC), 'Full name' (Ho Canh Cong), 'Email' (congdc@fpt.com.vn), and 'Phone' (0946156838). Below these, under 'Skill', there is a table with two rows: one for 'Skill' (SQL) and one for 'Description' (Structured Query).

Skill	Description
SQL	Structured Query

Figure 3.1.12_3: Trainer details info

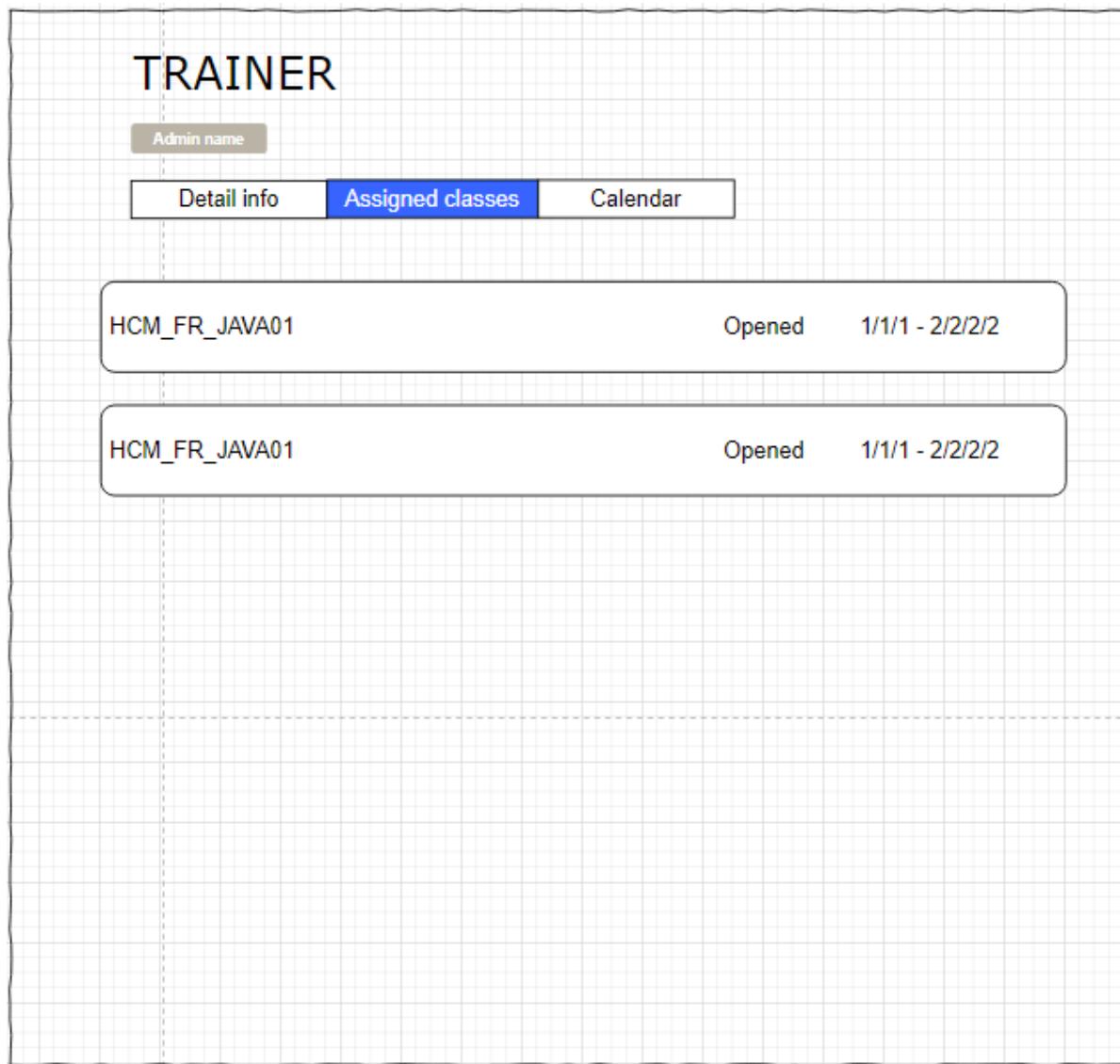
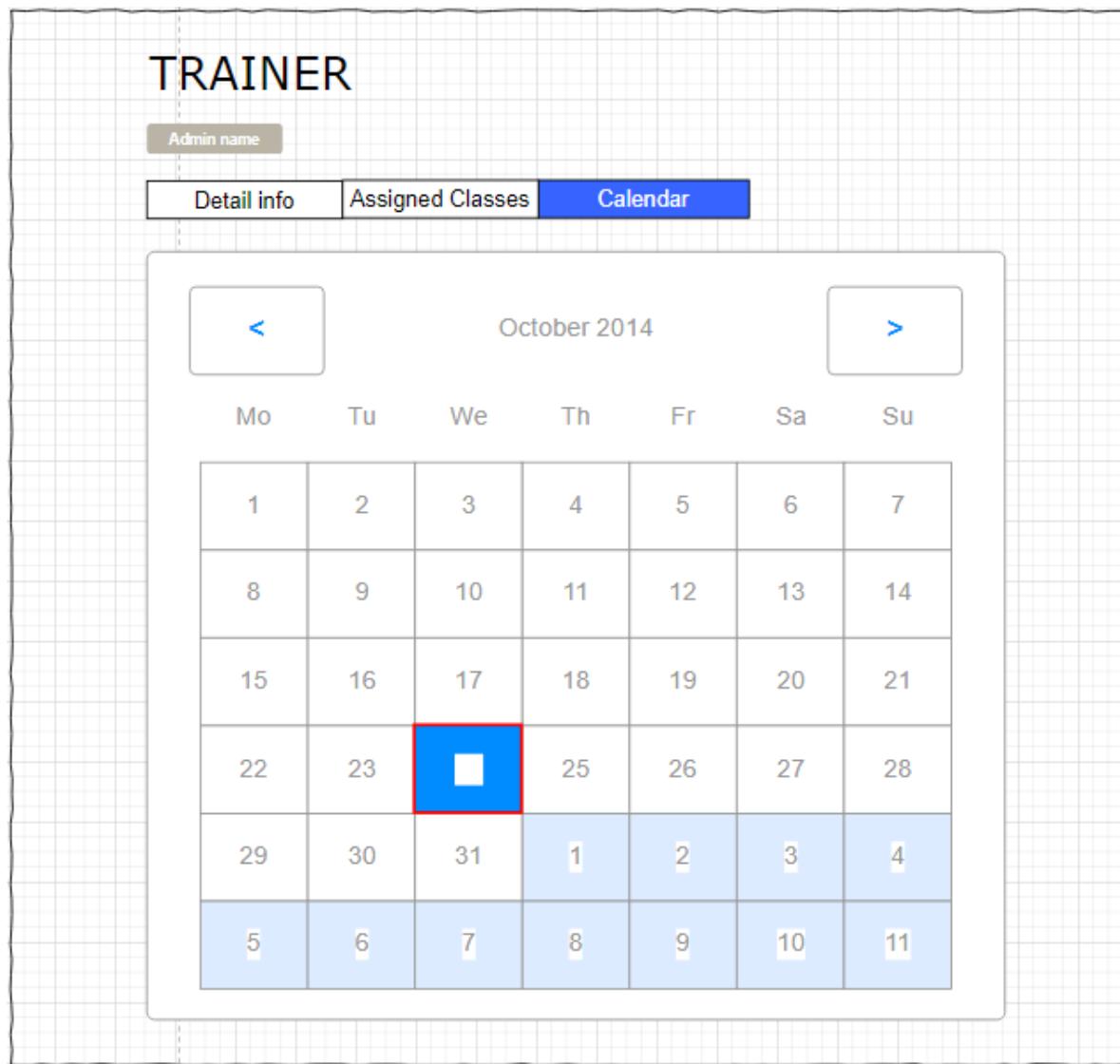


Figure 3.1.12_3: Trainer assigned classes**Figure 3.1.12_3: Trainer calendar**

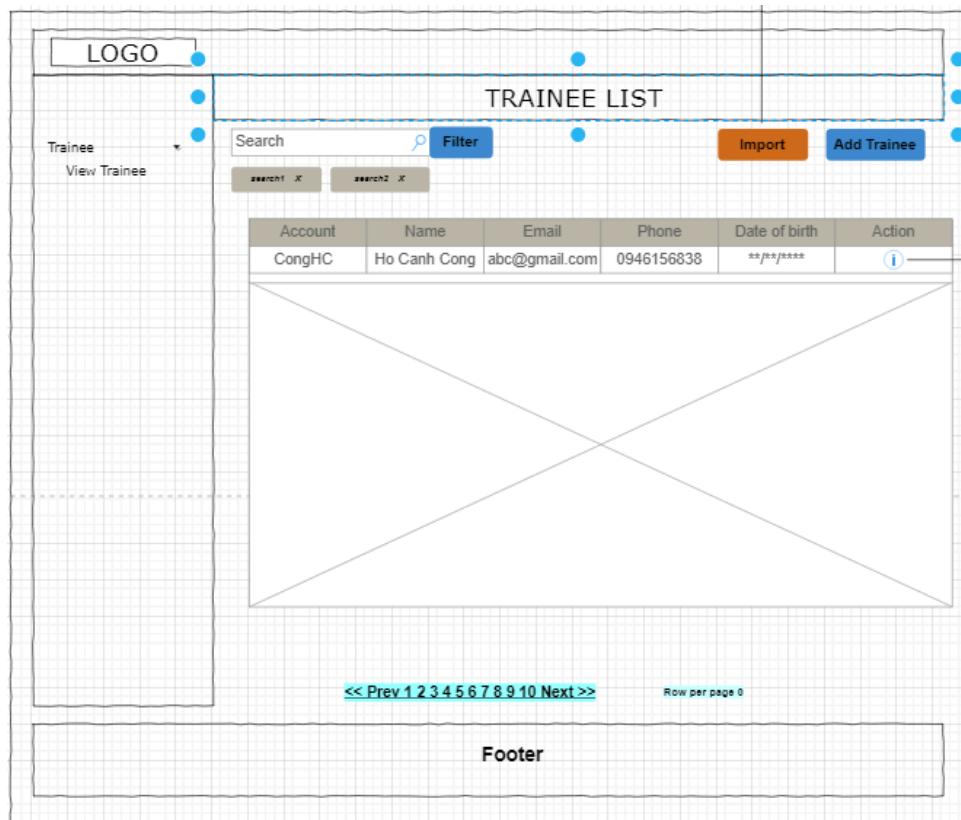
Screen on web	Platform	Function	As a <type of user>	I want to <perform a task>	So that I can <achieve some goals>	Business rule
13	Web	View trainer details	-System Admin -Admin Lead -Trainer	View Trainer Details	View details of a single trainer	N/A

Table 3.1.13_1: User story

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
1	Detail Info	Label	X	-	-	○	×		Trainer List screen
2	Assigned Classes	Combo box	X	-	-	○	×	×	[Ev01] [Process Flow] Step 1: Search trainer by keyword
3	Calendar	Button	X	-	-	○	×	×	[Ev02] [Process Flow] Step 1: Filter trainer
Detail Info tab									
4	Account	Button	X	-	-	○	×	×	[Ev03] [Process Flow] Step 1: Import trainer The template and file type has been defined
5	Account	Textbox	X	-	-	○	○	○	[Ev04] [Process Flow] Step 1: Add new trainer
6	Full name	Label	X	-	-	○	×	×	Trainer ID will be auto generated when adding new one
7	Fullname	Textbox	X	-	-	○	○	○	[Ev05] [Process Flow] Step 1: Click on field name can see the detailed trainer
8	Email	Label	X	-	-	○	×	×	This field displays Account

9	Email	Textbo x	X	-	-	○	○	○	This field displays Email
10	Phone	Label	X	-	-	○	×	×	This field displays Phone
11	Phone	Textbo x	X	-	-	○	○	○	This field displays Gender
12	Sort	Button	-	-	-	○	○	×	[Ev06] [Process Flow] Step 1: Sorting
13	More	Button	-	-	-	○	○	×	[Ev07] [Process Flow] Step 1: Show more features to modify trainer
14	Page number	Button	-	-	-	△	○	×	Paging of list trainer screen
15	<	Button	-	-	-	△	○	×	[Ev08] [Process Flow] Step 1: Back to the previous page Only show when there is more than 1 page and the User is not at 1st page
16	>	Button	-	-	-	△	○	×	[Ev09] [Process Flow] Step 1: Go to the next page Only show when there is more than 1 page and the User is not at the final page
17	>	Button	-	-	-	△	○	×	[Ev10] [Process Flow] Step 1: Go to the final page

18	Rows per page	Button	-	-	-	○	○	×	[Ev11] [Process Flow] Step 1: Change number of Trainer in a screen
19	searching Tag	Button	-	-	-	△	○	×	[Ev12] [Process Flow] Step 1: Delete the tag
20	Training material	Button	-	-	-	△	○	×	[Ev13] [Process Flow] Step 1: Open Training Material popup
21	Edit program	Button	-	-	-	△	○	×	[Ev14] [Process Flow] Step 1: Edit training program Base on User's permission
22	Duplicate program	Button	-	-	-	△	○	×	[Ev15] [Process Flow] Step 1: Duplicate training program Base on User's permission
23	De-active program/ Active program	Button	-	-	-	△	○	×	[Ev16] [Process Flow] Step 1: Change status of training program Base on User's permission
24	List of training program	Label	X	-	-	△	○	×	Show all training program or show records corresponding to search tag

Table 3.1.13_2: Item and event description**3.1.15. Use case 14: Trainee Detail.****Figure 3.1.15_1: List of Trainees**

TRAINEE ACCOUNT

Trainee name	CongHC
Trainee name	Ho Canh Cong
Trainee email	hocanhhcong1997@gmail.com
Trainee birthday	**/**/****
Trainee phone	0946156838
Assigned Classes	HCM_FR_JAVA05 ▼
<input type="button" value="Apply Change"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/>	

Figure 3.1.15_2: Create and Update Trainee

Import Trainee

Figure 3.1.15_3: Import Trainee

No	Screen item name	Type	Attribute	Length max	Arrange	Display Yes/No	Input Yes/No	Required	Supplementary explanation
----	------------------	------	-----------	------------	---------	----------------	--------------	----------	---------------------------

1	Trainee List	Label	X	-	-	○	×		Trainee List screen
2	Search box	Combo box	X	-	-	○	○	×	[Ev01] [Process Flow] Step 1: Search trainee by keyword
3	Filter	Button	X	-	-	○	○	×	[Ev02] [Process Flow] Step 1: Filter trainee
4	Import	Button	X	-	-	△	△	×	[Ev03] [Process Flow] Step 1: Import trainee The template and file type has been defined
5	Add new	Button	X	-	-	△	△	×	[Ev04] [Process Flow] Step 1: Add new trainee
6	Account	Label	X	-	-	○	×	×	Trainee Account will be auto generated when adding new one
7	Name	Label	X	-	-	○	×	×	[Ev05] [Process Flow] Step 1: Click on field name can see the detailed trainer
8	Email	Label	X	-	-	○	×	×	This field displays Email
9	Phone	Label	X	-	-	○	×	×	This field displays Phone
10	Action	Label	X	-	-	○	×	×	Step 1: Update Trainee

11	Sort	Button	-	-	-	○	○	×	[Ev06] [Process Flow] Step 1: Sorting
12	More	Button	-	-	-	○	○	×	[Ev07] [Process Flow] Step 1: Show more features to modify trainer
13	Page number	Button	-	-	-	△	○	×	Paging of list trainer screen
14	<<	Button	-	-	-	△	○	×	[Ev08] [Process Flow] Step 1: Back to the previous page Only show when there is more than 1 page and the User is not at 1st page
15	>>	Button	-	-	-	△	○	×	[Ev09] [Process Flow] Step 1: Go to the next page Only show when there is more than 1 page and the User is not at the final page
16	>	Button	-	-	-	△	○	×	[Ev10] [Process Flow] Step 1: Go to the final page
17	Rows per page	Button	-	-	-	○	○	×	[Ev11] [Process Flow] Step 1: Change number of Trainer in a screen
18	searching Tag	Button	-	-	-	△	○	×	[Ev12] [Process Flow]

									Step 1: Delete the tag
--	--	--	--	--	--	--	--	--	------------------------

Table 3.1.13_2: Item and event description**3.1.12. Error message**

No.	Screen	Error message
EM01	Login	Invalid username or password
EM02		Required field!
EM03	Forgot password	Required field!
EM04		Matched new password and confirm password
EM05	Send email to FA HCM	Existed email
EM06		Required field!
EM07	Import	Unsupported file type
EM08		Incorrect file size
EM09	Create Syllabus	Required field!
EM10		Sudden exit
EM11		Warning message - delete unit
EM12	Add Training Program	Required field!
EM13		Modified program alert
EM14		Sudden exit
EM15		Warning message - delete day
EM16		Warning message - deactivate program
EM17	Create class	Required field!
EM18		Sudden exit
EM19		Warning message - deactivate class
EM20	User management	Unsupported file type
EM21		Incorrect file size
EM22		Required field!
EM23		Warning message - delete user

EM24		Warning message - deactivate user
------	--	-----------------------------------

3.2. Usability

Followed by UI/UX rules to design the system. Make sure users can easily use the system without any training before.

3.3. Reliability

System should provide reliable and relevant search results 100% of times

3.4. Performance

For the number of users increase or decrease, it still does not affect the tasks (performance) of the application. It has maximum 8s to load a page and search a result displayed within 5s.

3.5. Supportability

This system supports interface interaction with Fsoft authentication. It's also supported to import and export files in excel, doc, pdf, and attach the other website links.

3.6. Permission Management

The application should provide the permission setting tool. This allows users with high permission to add roles and permission by themselves. If were developed, it should be as those screens below:

Role name	Syllabus	Training program	Class	Learning material	User
Super Admin	Permission	Permission	Permission	Permission	Full access
Class admin	Permission	Permission	Permission	Permission	Create
Trainer	Permission	Permission	Permission	Permission	View
Student	Permission	View	View	View	Access denied

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3.7. Legal, Copyright, and Other Notices

The application's legal, copyright and other notices belong to Fresher Academy.

3.8. Non-functional requirements

Response Time and Net Processing Time	Response within 5s
Operation time	24/7
Business continuity requirements	In disaster case, system can recover data
Data recovery range	Can recover data up to 24h ago
Number of concurrent users	1000
Secure coding, web server setting	Implement measures against threats and vulnerabilities specific to web applications
Session timeout	30 mins

4. OUT OF SCOPE

The following the object is out of scope of this SRS:

- User management includes trainer, trainee
- Class management
- Import template
- Cost, budget management
- External system for user authentication
- Settings