



TRƯỜNG ĐẠI HỌC FPT

Online Learning System

Software Requirement Specification

– Hanoi, May 2022 –

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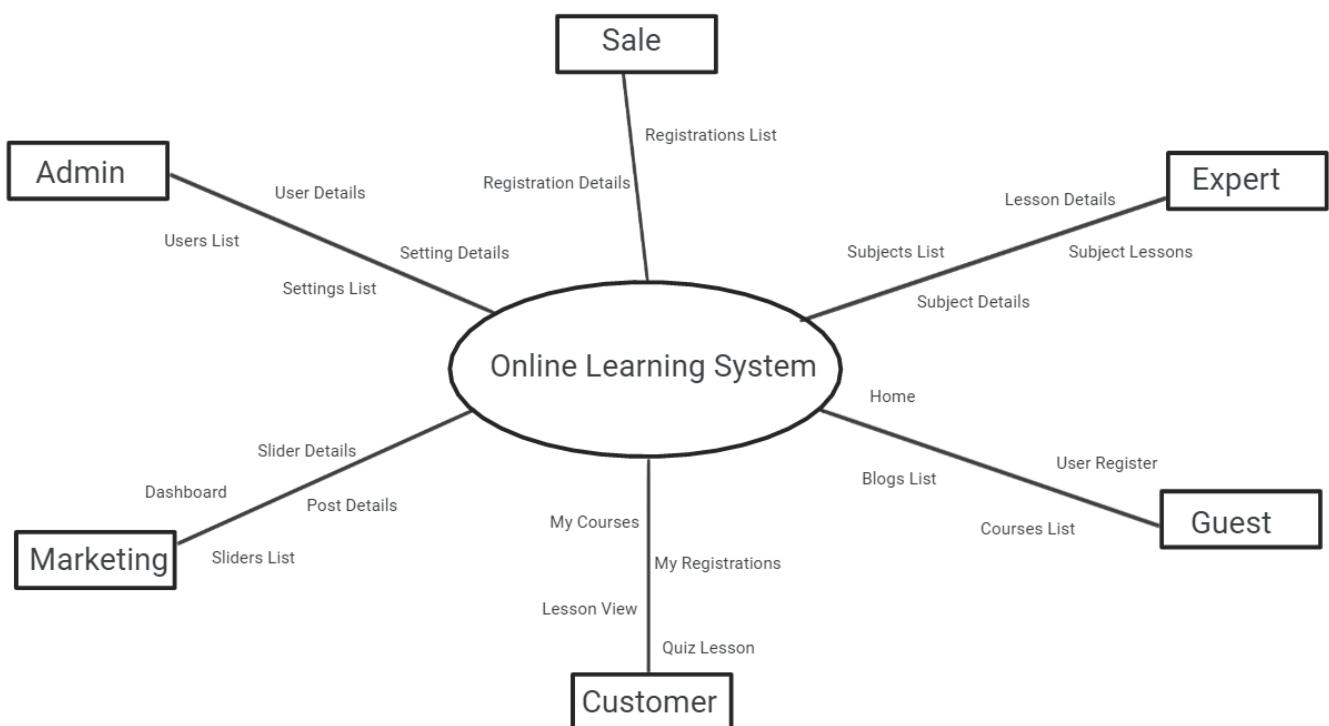
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I. Introduction

1. Overview

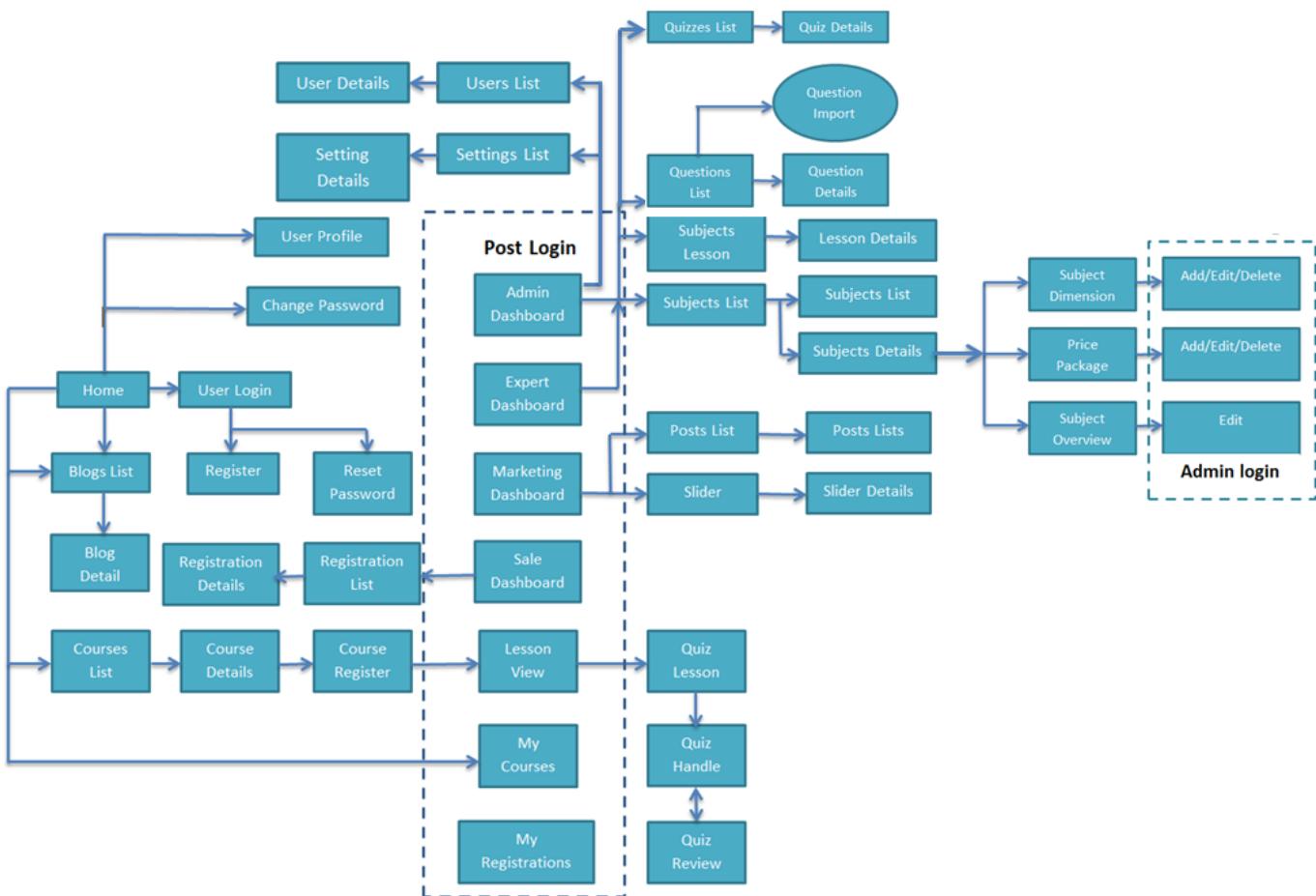
This project is aimed at developing an online learning system which supports the organisation/expert to build up & sell the online courses, supports the user to search - register - access online courses for learning. This system support for the below types of user:

- Guest: unregistered users
- Customer: they are registered users who are actual customers or potential customers
- Marketing: the marketing members of the organisation
- Sale: the sale members of the organisation
- Expert: access & prepare the course/test contents as assigned by admin
- Admin: the organisation leader/manager, acts as the system administrator



2. System Functions

a. Screen Flow



b. Screen Details

#	Feature	Screen	Description
01	User Login	Common	This is a pop-up screen which allows the user to enter email & password to login; on this page, there are also options for user to register new information or reset the password for the case s/he forget it
02	User Register	Common	This is a pop-up screen which allows the user to register himself/herself to the system by inputting following information: full name, gender, email, mobile; User then need to verify by clicking the link sent via email to him/her before being able to access the system
03	Reset Password	Common	The user input his/her email to receive the reset password link. This link is sent to the user's email for his/her password resetting. - On clicking the link, the user is redirected to the password resetting page in which s/he input new password (twice) for the system access - Note that the link is only available for a specific time duration as configured in the system config file.

04	User Authorization	Common	Implementation of authorization mechanism in the system, including the specify the role of logged-in user, his/her authorised page links (building the displayed menu items (in the front end) and preventing unauthorised access via enter the links directly)
05	User Profile	Common	This is a pop-up screen which allows the user to edit his/her profile information, including the registered ones & the avatar image. Please note that s/he is not allowed to change the email
06	Change Password	Common	This is a pop-up screen which allows the user to change his/her password by inputting his current password as well as new password (twice)
07	Home	Public	Show sliders, hot posts, featured subjects + the sider with the latest posts, static contacts/links <ul style="list-style-type: none"> - Shown slider information includes its image and title; the user is redirected to the slider's backlink on his/her clicking - Shown post information includes its thumbnail, title, post date; the user is redirected to the post's details on his/her clicking - Shown subject information includes its thumbnail, title, tag line; the user is redirected to the subject's details on his/her clicking
08	Blogs List	Public	Show the posts pagination (sorted by updated date) + the sider with the post search box, posts categories, latest posts, static contacts/links; <ul style="list-style-type: none"> Shown post information includes its thumbnail, title, category, brief-info; the user is redirected to the post's details on his/her clicking
09	Blog Details	Public	Show post details (including title, author, updated date, category, and post details) + the sider with the post search box, posts categories, latest posts, static contacts/links
10	Courses List	Public	Show the subjects paginated (sorted by updated date, paginated) + the sider with the subject search box, subject categories, featured subjects, and static contacts/links; <ul style="list-style-type: none"> - Shown subject information includes its thumbnail, title, tag line, lowest price package option (list price, sale price); - The user is redirected to the subject's details on his/her clicking on the subject - The user can choose to register to the subject by clicking the Register button
11	Course Details	Public	Show subject details (including title, tag line, brief info, lowest price package option (original price, sale price), product description, and a Register button) + the sider with the subject search box, subject categories, featured subjects, static

			contacts/links
12	Course Register	Public	This is a pop-up screen which allows the user to register to access a subject. On this screen, the user needs to choose an appropriate subject price package & input his/her information (full name, email, mobile, gender); A logged in user doesn't have to input those contact information
13	My Registrations	Customer	Show the list of user's registration + the sider with the subject search box, subject categories, static contacts/links - Each registration includes the following information: id, subject, registration time, package, total cost, status, valid from, valid to; - If the registration is still in the submitted status, the users can choose to cancel it or come back to the Course Register pop-up to edit it)
14	My Courses	Customer	for the customer to view his/her access-allowed courses
15	Lesson View	Customer	allow the customer to access the course lessons for his/her studying
16	Quiz Lesson	Customer	This allows the user to take the topic quiz or view the quiz results
17	Quiz Handle	Learning	This screen allows the user to browse and answer the quiz questions
18	Quiz Review	Learning	This screen allows the user to review the details of the quiz that s/he has just taken
19	Dashboard	Marketing	Show statistics of new subjects (new, all), new registrations (success, cancel, submitted), revenues (total, by subject categories), customers (newly registered, newly bought), and the trend of order counts (success, all) by day for the last 7 days (the start date & end date can be adjustable)
20	Post Details	Marketing	Show detailed post information (thumbnail, category, title, brief information, description, flag to turn the featurning on/off, status), from that allow the user to input, view or edit them
21	Sliders List	Marketing	Show the paginated list of sliders (including sliders' id, title, image, backlink, status) - The user can filter the sliders by the status + search by title or backlink - For each slider, the user can choose to hide, show, edit it
22	Slider Details	Marketing	Show detailed slider information (image, title, backlink, status, notes)
23	Subjects List	Course Content	Show the list of course paginated. The shown information for each subject include the id, name,

			<p>category, number of lessons, owner, and status</p> <p>The user can:</p> <ul style="list-style-type: none"> - Filter the list by course category & status - Search the course by the name - Choose to add a new course (redirect the user to the New Subject page for that) - Edit course information (linked to the Subject Details for that)
24	New Subject	Course Content	The screen is shown with below information for the user to input new course information: name, thumbnail image, category, featured flag, owner, status, and description
25	Subject Details	Course Content	This page allows the admin and the assigned expert to access and prepare the subject information, including the course general information, the dimension, and price package. Only the admin can change the status to Published or Unpublished + add/edit the price packages
26	Subject Dimension	Course Content	This page allows the admin/expert to input or edit subject dimension information, including the following detailed information: type, name, description
27	Price Package	Course Content	This page allows the admin to input or edit subject dimension information, including the following detailed information: name, access duration (in months), status (read-only), list price, sale price, description. The expert can only view the information.
28	Subject Lessons	Course Content	This page shows the list of lessons for a selected package. On this page, the admin/expert is allowed to activate/deactivate, or call the Lesson Details for adding new or editing existing lesson
29	Lesson Details	Course Content	This page allows the admin/expert to input/edit the lesson information
30	Questions List	Test Content	<p>The existing questions list for a specific subject/course are shown here (paginated). On this screen, the admin/expert is allowed to filter the questions by the subject, lesson, dimension(s), level, status + search the questions by content</p> <p>The information below is shown for each question in the list: id, content, subject /dimension /lesson, level, status + options to show, hide, edit it; The page also allows the user to import the question (redirect him/her to the Questions Import pop-up screen).</p>
31	Question Details	Test Content	This page allows the admin/expert to input or edit questions information, including following information: subject, dimension(s), lesson, status, content, media (image, audio, video – with preview option), answer options (with the key marked +

			ability to add, edit, delete), and explanation
32	Question Import	Test Content	<p>This is a pop-up screen which allows the user to choose an import file and then import the questions in the file into the questions bank. The screen also provides the option for the user to download the sample import template.</p>
33	Quizzes List	Test Content	<p>The existing quizzes are shown in this page pagination:</p> <ul style="list-style-type: none"> - The user can filter the list by subject, quiz types + search quizzes by the name - Each quiz includes the following information: id, name, subject, level, # question, duration, pass rate, and the quiz type. <p>From this page, the user has the option to call the Quiz Details page for adding new or editing existing quizzes + delete the quiz. Please note that the quiz can be edited only when there is not any test taken yet.</p>
34	Quiz Details	Test Content	This page allows the user to input or edit quiz information
35	Registrations List	Sale	<p>Show the list of users' registrations</p> <ul style="list-style-type: none"> - Each registration includes the following information: id, email, registration time, subject, package, total cost, status, valid from, valid to, last updated by; - The user can filter the list by subject (searchable), registration time (from, to), status + can search by the email - The list can be sorted by id, email, registration time, subject, package, total cost, status, valid from, valid to - From the list, the user can choose to add new or edit an existing registration via the Registration Details screen as below
36	Registration Details	Sale	Show detailed registration information (subject, package with list price/sale price, full name, gender, email, mobile), registration time, sale, status, valid from, valid to, notes) from that for the user to add new or change the status of a registration with relevant notes (if a registration is created by the user, then s/he can edit other registration information). On changing a registration status to Paid, if the user with relevant registered email does not exist, the system would create one and send back to the user the login information (link, email, pass) along with the other notification notes
37	Users List	Admin	Show the paginated list of registered users (include users' id, full name, gender, email, mobile, role,

			<p>status):</p> <ul style="list-style-type: none"> - The admin can filter the users by gender, role, status - Allow the admin to search users by full name, email, mobile - The list is sortable by id, fullname, gender, email, mobile, role, status - From each user, the admin can choose to view or edit it - The page also has the button/link that allows the admin to add new user
38	User Details	Admin	<p>Show detailed user information (avatar, full name, gender, email, mobile, role, address, status), from that allow the user to add new, view or edit user information</p> <ul style="list-style-type: none"> - After adding, the new generated login password would be emailed to the new user - The admin can only edit/update the role and status of the user
39	Settings List	Admin	<p>Show the paginated list of settings (include settings' id, type, value, order, status):</p> <ul style="list-style-type: none"> - The admin can filter the setting by type, status - Allow the admin to search settings by value - The list is sortable by id, type, value, order, status - From each setting, the admin can choose to view, activate/deactivate, or edit it - The page also has the button/link that allows the admin to add new setting
40	Setting Details	Admin	<p>Show detailed user information (type, value, order, description, status), from that allow the user to add new, view or edit setting information</p>

c. User Authorization

Screen	Guest	Customer	Marketing	Sale	Expert	Admin
User Login		x	x	x	x	x
User Register		x	x	x	x	
Reset Password		x	x	x	x	
User Authorization	x	x	x	x	x	x
User Profile		x	x	x	x	x

Change Password		X	X	X	X	X
Home	X	X	X	X	X	X
Blogs List	X	X	X	X	X	X
Blog Details	X	X	X	X	X	X
Courses List	X	X	X	X	X	X
Course Details	X	X	X	X	X	X
Course Register		X				
My Registrations		X				
My Courses		X				
Lesson View		X				
Quiz Lesson		X				
Quiz Handle		X				
Quiz Review		X				
Dashboard			X	X		X
Post Details			X			
Sliders List	X	X	X	X	X	X
Slider Details	X	X	X	X	X	X
Subjects List	X	X	X	X	X	X
New Subject		X				
Subject Details	X	X	X	X	X	X
Subject Dimension					X	X
Price Package	X	X	X	X	X	X
Subject Lessons		X			X	X
Lesson Details		X			X	X
Questions List		X			X	X
Question Details		X			X	X
Question Import					X	X
Quizzes List		X			X	X
Quiz Details		X			X	X
Registrations List			X	X	X	X

Registration Details		x	x	x	x	x
Users List			x	x	x	x
User Details	x	x	x			x
Settings List			x			x
Setting Details			x			x

d. Non-Screen Functions

#	Feature	System Function	Description
1	Expert	Support Online	Gmail
2	Customer	Help	Gmail

3. Common Requirements

The common functions/screens used for all types of users, as listed below

- User Login: authenticate the user to give him/her to access authorized features later on
- User Register: register new user into the system, verified by the registered email
- Reset Password: use in case the user forgot his/her password
- User Authorization: authorize user into the system functions based on his/her role
- User Profile: view & edit/update user profile
- Change Password: change user's login password

II. Functional Requirements

1. Overall Description

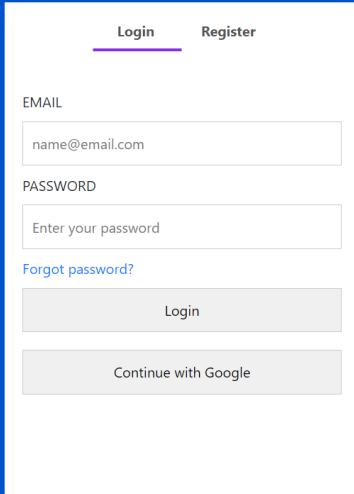
The to-be-developed system includes the 8 features with the functions for each feature are listed in the beneath sections. The details for each function in those features are as listed in the attached Excel file (OnlineLearn_Function Details.xlsx).

2. Common Feature

The common functions/screens used for all types of users, as listed below:

- User Login: authenticate the user to give him/her to access authorized features later on

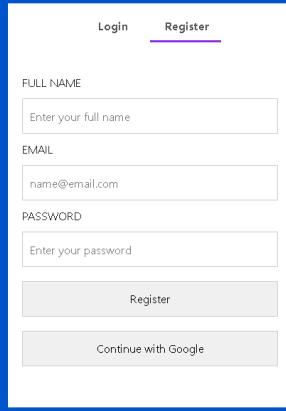
localhost:8080/project/login



The screenshot shows a login page with a blue header bar at the top. Below the header, there are two tabs: "Login" and "Register". The "Login" tab is currently selected, indicated by a purple underline. The page contains fields for "EMAIL" (with the value "name@email.com") and "PASSWORD" (with the placeholder "Enter your password"). Below these fields is a link "Forgot password?". At the bottom of the form are two buttons: "Login" and "Continue with Google".

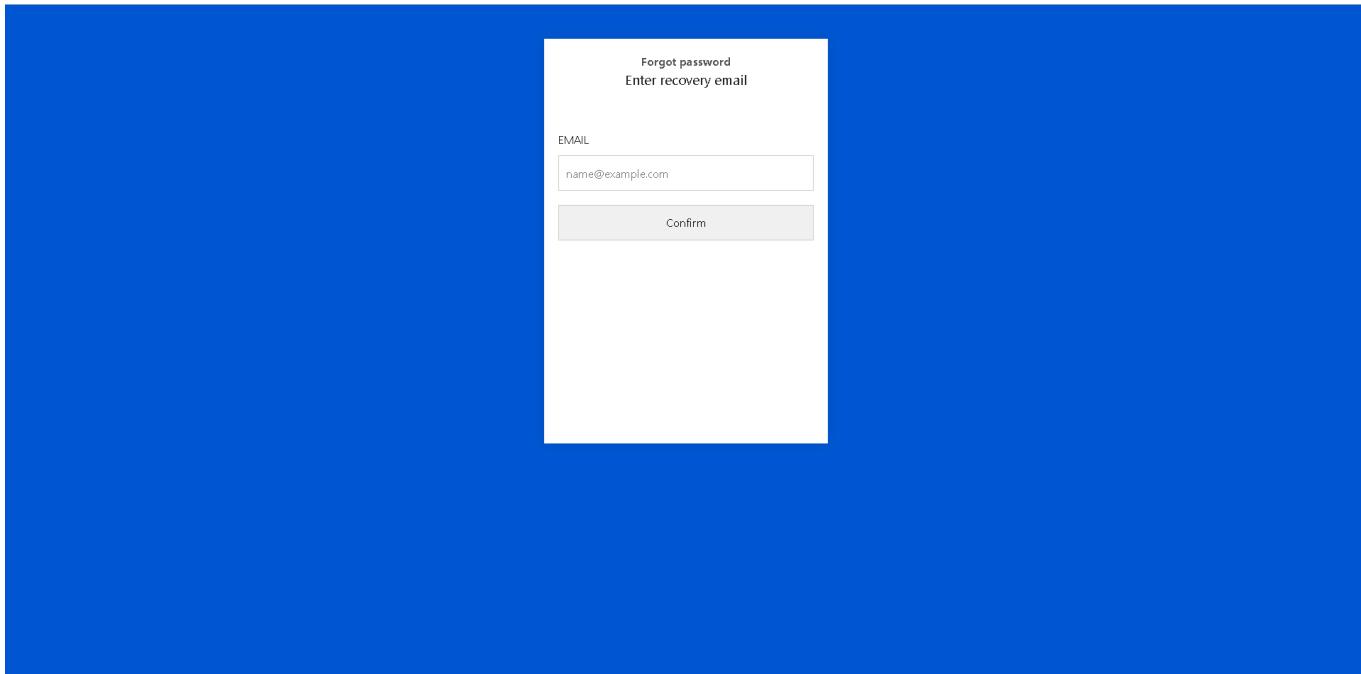
- User Register: register new user into the system, verified by the registered email

localhost:8080/project/register

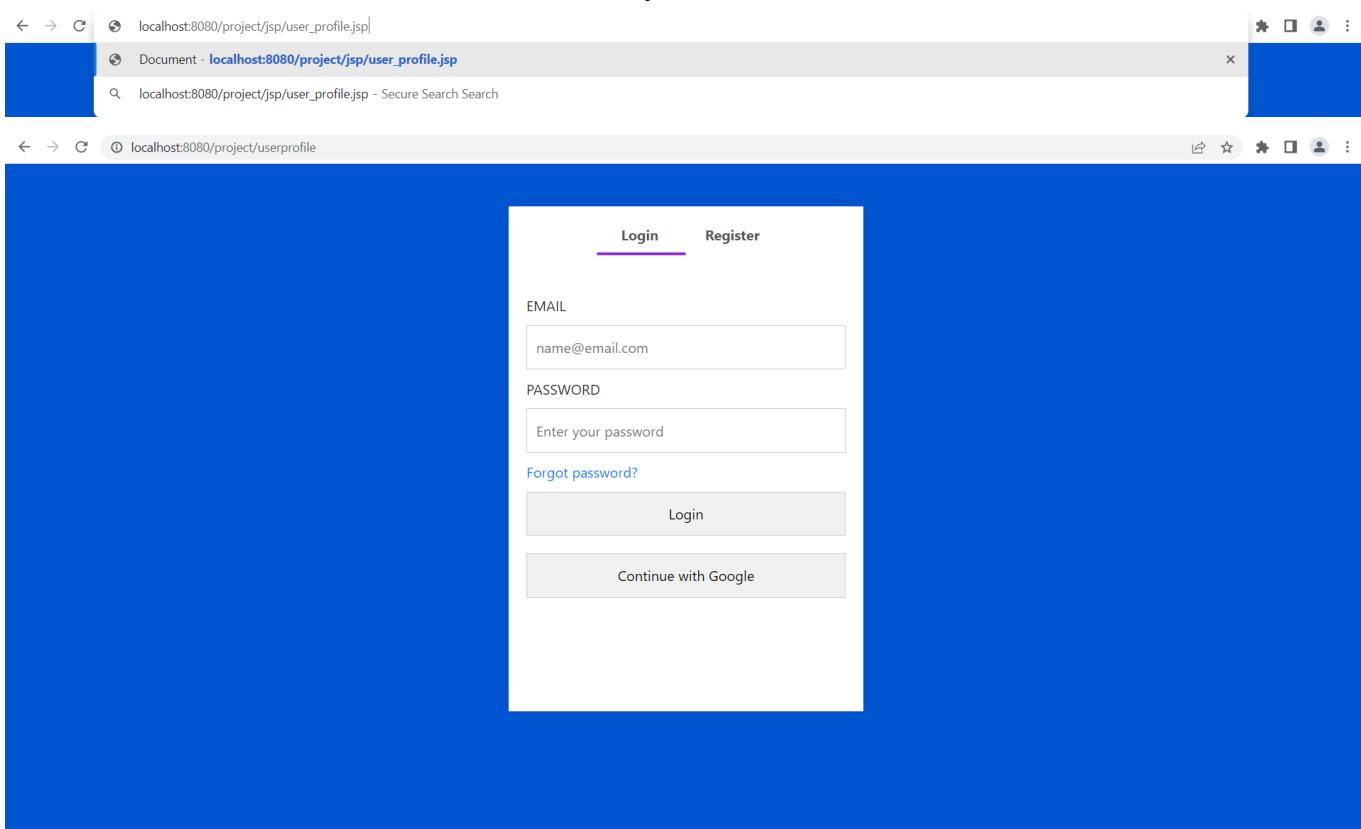


The screenshot shows a registration page with a blue header bar at the top. Below the header, there are two tabs: "Login" and "Register". The "Register" tab is currently selected, indicated by a purple underline. The page contains fields for "FULL NAME" (placeholder "Enter your full name"), "EMAIL" (value "name@email.com"), and "PASSWORD" (placeholder "Enter your password"). Below these fields are two buttons: "Register" and "Continue with Google".

- Reset Password: use in case the user forgot their password



- User Authorization: authorize user into the system functions based on their role



- User Profile: view & edit/update user profile

COURSERE What do you want

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My profile

Let the Coursera community of other learners and instructors recognize you.

Introduce yourself to the Coursera community. Connect with learners like you to grow your network.

Full Name Pham Nhat Thanh

Profile Photo

Email thanhpnhe151285@fpt.edu.vn

Phone Number 92141623

Birthday 18/12/2001

Gender Male Female Other I'd rather not say

Address Hai Phong

Wallet ...

Edit

- Change Password: change user's login password

localhost:8080/project/changepassword

Change Password

OLD PASSWORD
Enter your old password

NEW PASSWORD
Enter your new password

CONFIRM NEW PASSWORD
Confirm new password

Change now

3. Public Feature

This feature includes the screens used for the Guests, as listed below:

- Home Page: the starting page of the system

localhost:8080/project/home

Newfolder Func Code JDP lot Meet_FPT Quiz Courses CWS VSSID

COURSERE What do you want

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Learn without limits

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localhost:8080/project/home

Newfolder Func Code JDP lot Meet_FPT Quiz Courses CWS VSSID

COURSERE What do you want

Degrees For Business For Educators Product News Pham Nhat Thanh

Welcome back Pham Nhat Thanh!

Home In Process Completed

Courses and Specializations

Many courses in topics like business, language, health, and more.

- Blogs List: list of shared posts

localhost:8080/project/bloglist

COURSERE What do you want

Degrees For Business For Educators Product News ACCOUNT

COURSERE Blog

COURSERE Blog

MS in Management: Digital Transformation in Healthcare
Northeastern University D'Amore-McKim School of Business
Created and taught in collaboration with Mayo Clinic College of Medicine and Science

5 Must-Watch Sessions from Coursera Conference 2022

coursera for campus New features and updates
Deliver academic integrity with these new features

Lastest Post

localhost:8080/project/bloglist

COURSERE

Degrees For Business For Educators Product News ACCOUNT

Lastest Post

[1](#) [2](#) [3](#) [4](#) [5](#)

An interview with Maki Villano
Maki Villano is earning his Master in Data Science while balancing work and family
 University of Colorado Boulder

Maki Villano Is Earning His Master in Data Science While Balancing Work and Family

2022-05-17

Karim Makisig "Maki" Villano studied electrical engineering as an undergraduate. He took on various IT roles over the last two decades and is currently a senior ... [read more](#)

What's Driving Retention in Online Degree Programs? New Insights from our Data-Backed Report

2022-05-12

The Coursera platform has become a hub for leading universities to build and offer their online degrees to an eager audience of individuals worldwide. From the ... [read more](#)

Coursera Conference 2022 Highlights
By Betty Vandenbosch, Coursera's Chief Content Officer I was delighted to have the opportunity to host our 10th annual Coursera Conference. Our virtual platform ... [read more](#)

localhost:8080/project/bloglist?bid=1

COURSERE

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Coursera Blog

Degrees

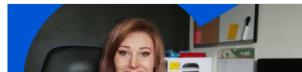
See how learners are advancing their education and careers with world-class degree programs on Coursera.

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[1](#) [2](#)



An interview with Maki Villano
Maki Villano is earning his Master in Data Science while balancing work and family



- Blog Details: detail of the shared post

COURSERE What do you want Degrees For Business For Educators Product News ACCOUNT

Coursere Blog Search in Blog

Northeastern University and Mayo Clinic launch first university-industry degree on Coursere 2022-05-31 KEPP READING

Northeastern University D'Amore-McKim School of Business
MS in Management: Digital Transformation in Healthcare
Created and taught in collaboration with Mayo Clinic College of Medicine and Science

Maki Villano Is Earning His Master in Data Science While Balancing Work and Family
With Performance-Based Admissions, Mattison Hineline Can Earn a Master's and Pursue a New Career in Data Science
Using Data in Financial Decision-Making

- Courses List: List of the active courses
- Course Details: Details of the selected course

COURSERE What do you want Degrees For Business For Educators Product News ACCOUNT

List of courses

Filter By Subject Level Lecturer Price Public Date

Course	Re
	Ep: 1 GETTING STARTED WITH C PROGRAMMING C Programming C for Beginners
	Lesson 1 Introduction to Digital Marketing Digital Marketing for Beginners
	The English Language English English for Beginners
	Financial Markets Financial Markets for Beginners

gister: allow the user to register to access a course with a specific price package

4. Customer Feature

This includes the screens used for the system customers, as listed below:

a. My Registrations

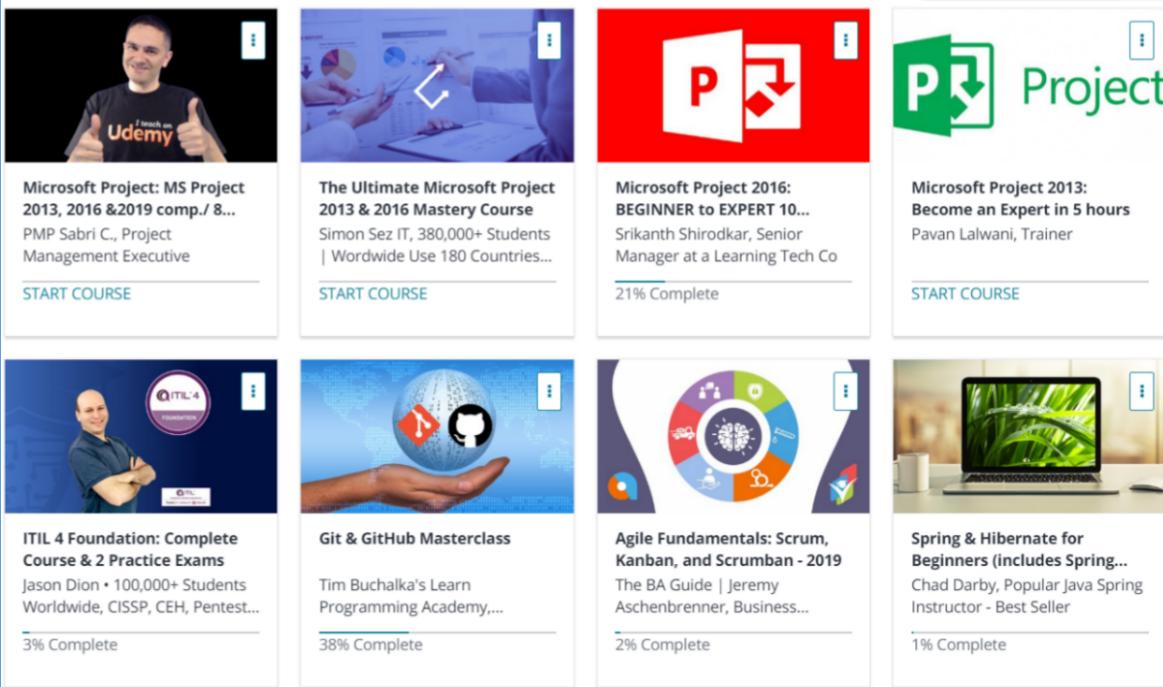
for the customer to view his/her submitted course registrations

b. My Courses

for the customer to view his/her access-allowed courses with below screen layout

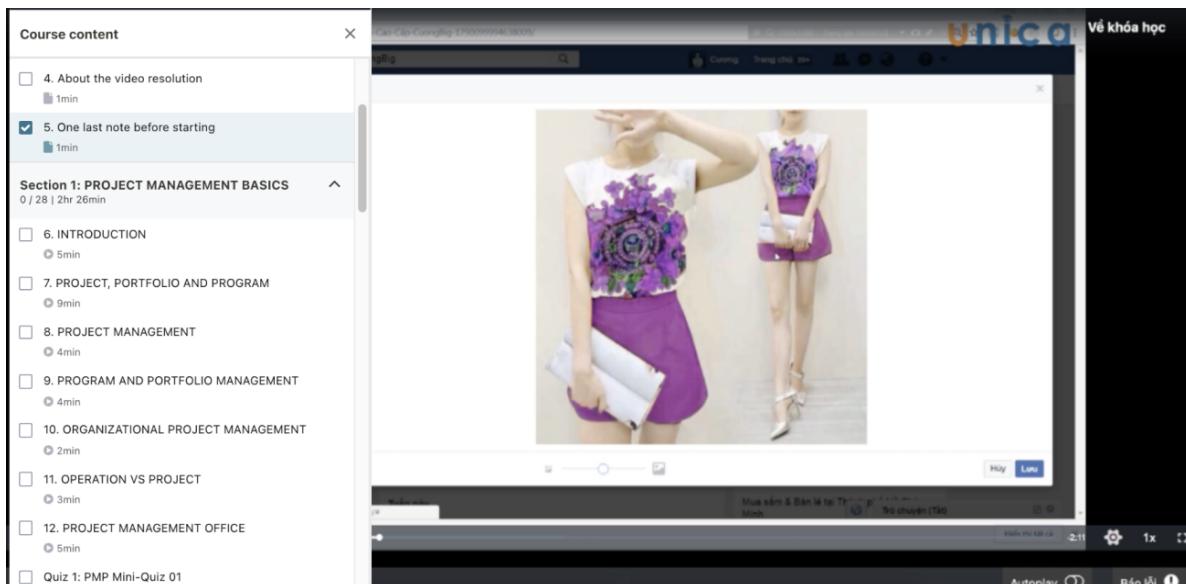
My Courses

Search my courses

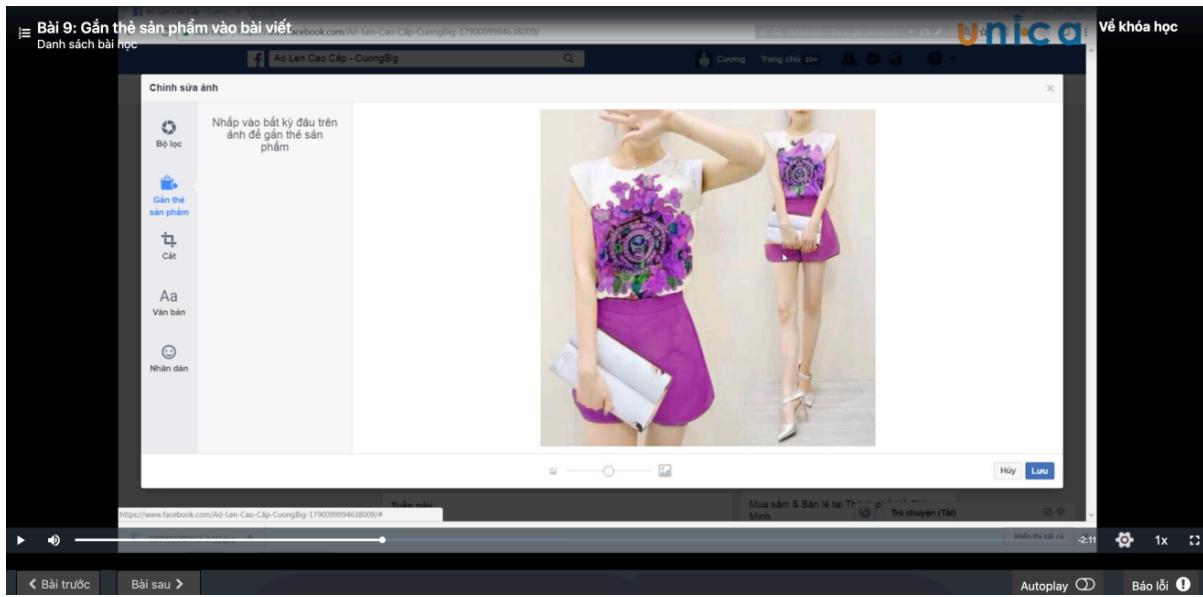


c. Lesson View

allow customer to access the course lessons for his/her studying as below
Screen layout with lessons list



Screen layout without lessons list



If the user chooses an HTML-format lesson, the HTML content would be shown instead of the video

If a quiz lesson is chosen, the Quiz Lesson screen would be shown as described below

d. Quiz Lesson

This allows the user to take the topic quiz or view the quiz results. The screen would be shown in one of 2 SubForms as described below.

- SubForm 1: show the quiz details, on clicking the Start Test button, the user would be redirected to the Quiz Handle screen

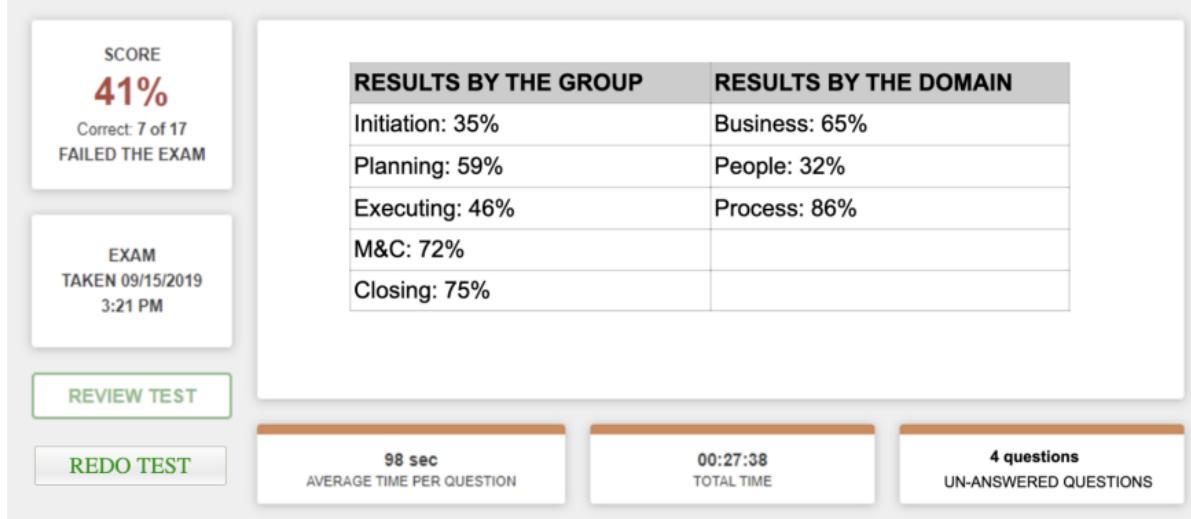
<<Test name>>

<<Exam name>> | xx questions

Exam description

Start Test

- SubForm 2: show the quiz result. On clicking the Review Test button, the user is redirected to the Quiz Review screen. If the user clicks the Redo Test button, s/he would be redirected to the Quiz Handle screen



e. Quiz Handle

This screen allows the user to browse and answer the quiz questions. The screen layout is as below

Question ID: 643

1) The quality efforts on the project have gone through some changes during the first four months of project work. Two processes in particular have undergone extensive change. The customer is happy with the work to date, but has heard that the competition is working on a similar product. The team has been asked to analyze and create options for the customer. Value analysis is performed to get:

A. Management to buy into the project
B. The team to buy into the project
C. A less costly way of doing the same work
D. More value from the cost analysis

Peek at Answer Mark for Review

Review Progress Next

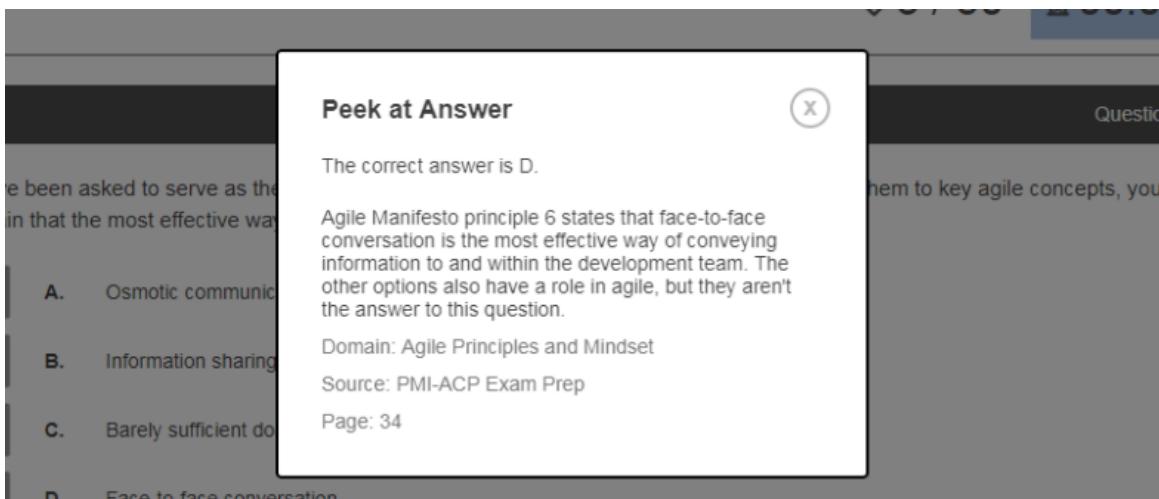
Notes about the buttons in the right side of the footer:

- First question: have Next button only
- Last question: have Previous & Score Exam buttons
- Middle question: have Previous & Next buttons

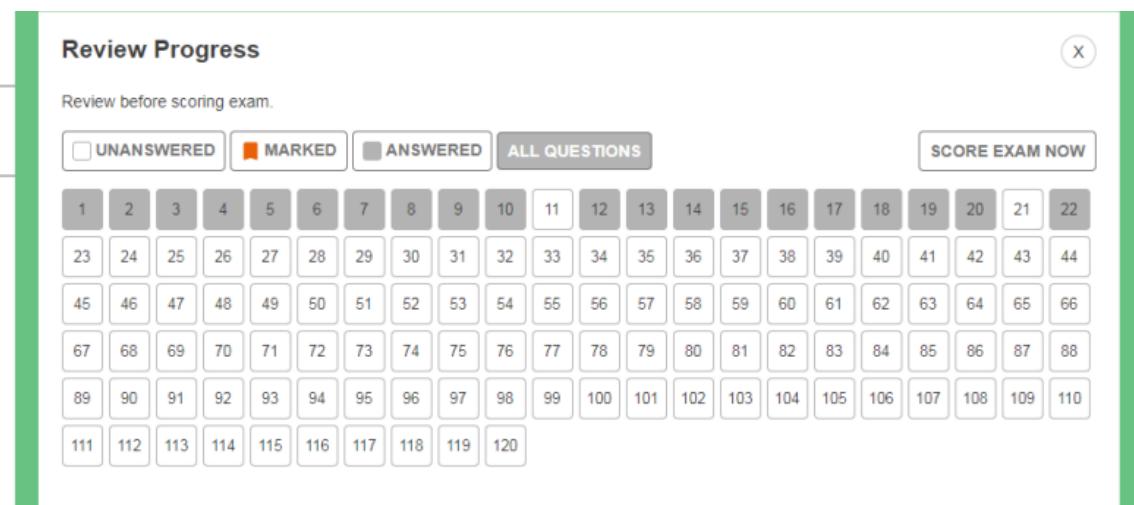
Other notes:

- The timer is counting down
- During quiz-taking progress, if the user chooses to refresh the page, there is no impact

The pop-up screen below would be shown if the user clicks the Peek at Answer button

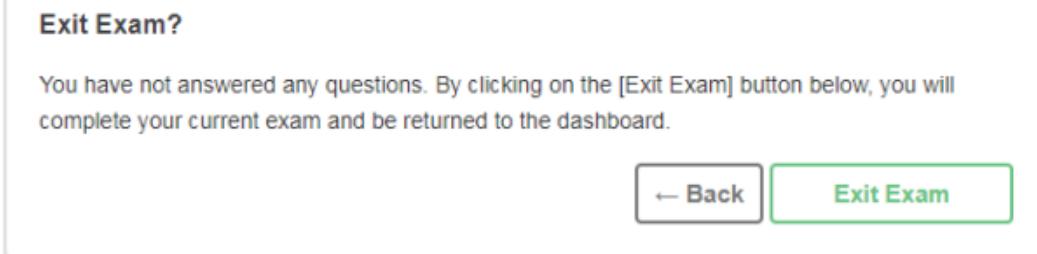


When the user clicks the Review Progress button, the below pop-up screen would be shown with 4 options UnAnswered, Marked, Answered, and All Questions with which, the user can filter relevant question numbers to show. By clicking on each question number, the user is redirected back to the Quiz Handle screen and at the chosen question.



If the user chooses to Score Exam (at the last question in the Quiz Handle screen or to Score Exam Now in the above pop-up screen), the confirmation pop-up would be shown as below

- If there is not any answered question answered, allow the user to continue the testing or coming back to the Quiz Lesson page (SubForm1 ~ Quiz Description)



- If there are some unanswered questions, allow the user to continue the testing or to quiz the quiz & coming to the Quiz Lesson page (SubForm2 ~ Quiz Result)

Score Exam?

17 of 20 Questions Answered

By clicking on the [Score Exam] button below, you will complete your current exam and receive your score. You will not be able to change any answers after this point.

← Back

Score Exam

- If all the questions are answered, allow the user to continue testing or to submit the testing and coming to the Quiz Lesson page (SubForm2 ~ Quiz Result).

Score Exam?

By clicking on the [Score Exam] button below, you will complete your current exam and receive your score. You will not be able to change any answers after this point.

← Back

Score Exam

f. Quiz Review

This screen allows the user to review the details of the quiz that s/he has just taken. The screen layout is as below

① Question ID: 350

1) The ScrumMaster, Sophia, is preparing for a meeting with the project sponsor, Arnold, to report on the project's progress. Arnold wants to know how much work is left on the project and when the team will be done. Sophia is standing in team's workspace taking a picture of one of their low-tech, high-touch tools to show Arnold in this meeting. Which information radiator is she photographing?

YOUR ANSWER A. Technical debt graph
 B. Project schedule
 C. Task board
 D. Burnup chart

Review Results **Explanation** **Next**

The Explanation button is available only when the question is attached with un-empty explanation. When the user clicks the Review Result button, the below pop-up screen would be shown with 4 options Marked, Answered, Incorrect, and All Questions with which, the user can filter relevant question numbers to show. By clicking on each question number, the user is redirected back to the Quiz Review screen and at the chosen question.

Review Results

Review specific questions below.

MARKED **ANSWERED** **INCORRECT** **ALL QUESTIONS**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50																

When the user clicks the Explanation button of the Question Review screen

Explanation

The correct answer is D.

The only one of these displays that would let the sponsor see how much work is left on the project and when the team will be done is a burnup chart. The task board just shows the work currently in progress. The other two terms are distractors; agile teams don't use low-tech, high-touch tools called a "technical debt graph" or a "project schedule."

Domain: Team Performance
 Source: PMI-ACP Exam Prep
 Page: 231

5. Marketing Feature

This includes the screens used for marketing members, as listed below

- Dashboard: This is for the Admin, Sale or Marketing to see and lookup for the relevant management statistics in the system, with the relevant links to the related screens.
- Posts List: list, filter, search, show, hide, view, add new or edit existing post(s)
- Post Details: view & edit the details of a specific post
- Sliders List: list, filter, search, show, hide, view, add new or edit existing slider(s)
- Slider Details: view & edit the details of a specific slider

6. Course Content

This feature includes the functions that allow the admin to add, edit the subject contents and assign the expert to the subject for preparing the subject contents;

a. Subjects List

This screen allows the admin and expert to see the existing course list. The admin can see all the courses while the expert can only see his assigned courses

b. New Subject

This screen allows the admin to add new course and assign the expert (owner) for further course content preparation

c. Subject Details

This page allows the admin and the assigned expert to access and prepare the subject information, including the course general information, the dimension, and price package. Only the admin can change the status to Published or Unpublished + add/edit the price packages.

The screen layouts are as below (for 3 tabs of the screen). With the admin, the Overview tab also displays the owner (expert) information, from that s/he can change the owner if needed.

Subject Details

Overview Dimension Price Package

Subject Name

Category

Featured Subject Status

Description

Subject Details

Dimension Overview Price Package

[Add New](#)

#	Type	Dimension	Action
1	Domain	Business	Edit Delete
3	Domain	Process	Edit Delete
4	Domain	People	Edit Delete
2	Group	Initiating	Edit Delete
5	Group	Planning	Edit Delete
6	Group	Executing	Edit Delete

Subject Details

Price Package		Overview	Dimension				
#	Package	Duration	List Price	Sale Price	Status	Action	Add New
1	Gói truy cập 3 tháng	3	3600	3200	Active	Edit Deactivate	
2	Gói truy cập 6 tháng	6	5000	4500	Inactive	Edit Activate	
4	Gói truy cập vô thời hạn		10000	9800	Active	Edit Deactivate	

d. Subject Dimension

This page allows the admin/expert to input or edit subject dimension information, including the following detailed information: type, name, description

e. Price Package

This page allows the admin to input or edit subject dimension information, including the following detailed information: name, access duration (in months), status (read-only), list price, sale price, and description. The expert can only view the information.

f. Subject Lessons

This page shows the list of lessons for a selected package. On this page, the admin/expert is allowed to activate/deactivate or call the Lesson Details for adding new or editing existing lessons. The screen layout is as below

Subject Lessons						
Subject name: <<Name of Subject>>						
All lesson groups		All statuses	Type lesson name to search	Add Lesson		
ID	Lesson	Order	Type	Status	Action	
1	Chương một	1	Subject Topic	Active	Edit Inactivate	
5	-- Chương một chấm một	1	Lesson	Active	Edit Inactivate	
7	-- Chương một chấm hai	2	Quiz	Inactive	Edit Activate	
7	Chương hai	2	Subject Topic	Active	Edit Inactivate	
7	Chương ba	3	Subject Topic	Active	Edit Inactivate	

g. Lesson Details

This page allows the admin/expert to input/edit the lesson information, with below screen layout

Lesson Details

Name	Type
<input type="text" value="Text box"/>	<input type="text" value="Subject Topic"/> <input type="button" value="▼"/>
Topic	Order
<input type="text"/>	<input type="text" value="2"/> <input type="button" value="▼"/>
Video link	
<input type="text" value="You Tube link"/>	
HTML Content	
<div style="border: 1px solid #ccc; height: 150px; padding: 5px;"><p>CKEditor Content</p></div>	
<input type="button" value="Submit"/>	<input type="button" value="Back"/>

The screen components are shown/hidden depending on the lesson type:

- Subject Topic: hide video link & HTML Content
- Lesson: with contents show as in the above screen
- Quiz: hide video link, show the Quiz dropdown list instead

7. Testing Content

This feature includes the functions that allow the admin and expert to prepare the testingrelated contents (the questions bank & quizzes list)

a. Questions List

The existing questions list for a specific subject/course are shown here (paginatedly). On this screen, the admin/expert is allowed to filter the questions by the subject, lesson, dimension(s), level, status + search the questions by the content. The page also allows the user to import the question (redirect him/her to the Questions Import pop-up screen).

b. Questions Details

This page allows the admin/expert to input or edit questions information, including following information: subject, dimension(s), lesson, status, content, media (image, audio, video – with preview option), answer options (with the key marked + ability to add, edit, delete), and explanation

c. Questions Import

This is a pop-up screen which allows user to choose import file and then import the questions in the file into the questions bank. The screen also provides the option for the user to download the sample import template.

d. Quizzes List

The existing quizzes are shown in this page paginatedly:

- The user can filter the list by subject, quiz types + search quizzes by the name
- Each quiz includes following information: id, name, subject, level, # question, duration, pass rate, and the quiz type. From this page, the user has the options to call to the Quiz Details page for adding new or editing existing quiz + delete the quiz. Please note that the quiz can be edited only when there is not any test taken yet.

e. Quiz Details

This page allows the user to input or edit quiz information. The screen layout is as below

The left screenshot shows the 'Quiz Details' screen with the 'Setting' tab selected. It includes fields for Name, Subject, Exam Level, Duration, Pass Rate, Quiz Type, and a Description text box. Buttons for 'Submit' and 'Back' are at the bottom.

The right screenshot shows the 'Setting' screen with the 'Setting' tab selected. It includes a field for 'Tổng số câu hỏi' (Total number of questions) set to 50, and radio buttons for 'Theo topic' (selected), 'Theo group', and 'Theo domain'. Below this are three dropdown menus for selecting question groups: 'Tên nhóm lựa chọn 1', 'Tên nhóm lựa chọn 2', and 'Tên nhóm lựa chọn 3'. Each dropdown has a 'Số câu' (Number of questions) button and an 'Xoá' (Delete) button. A 'Save' button is at the bottom right.

8. Sales Feature

This includes the screens used for sale persons

a. Registrations List

Show the list of users' registrations

- Each registration includes below information: id, email, registration time, subject, package, total cost, status, valid from, valid to, last updated by;
- The user can filter the list by subject (searchable), registration time (from, to), status + can search by the email
- The list can be sorted by id, email, registration time, subject, package, total cost, status, valid from, valid to
- From the list, the user can choose to add new or edit an existing registration via the Registration Details screen as below

b. Registration Details

Show detailed registration information (subject, package with list price/sale price, full name, gender, email, mobile), registration time, sale, status, valid from, valid to, notes) from that for the user to add new or change the status of registration with relevant notes (if registration is created by the user, then s/he can edit other registration information). On changing a registration status to Paid, if the user with a relevant registered email does not exist, the system would create one and send back to the user the login information (link, email, pass) along with the other notification notes

9. Admin Feature

The Admin feature includes the screens used for the organization manager and system administrator, as listed below

- Users List: list, filter, search, show, hide, view, add new or edit existing user(s)
- User Details: view & edit the details of a specific user
- Settings List: list, filter, search, show, hide, view, add new or edit existing system setting(s)
- Setting Details: view & edit the details of a specific system setting

III. Other requirements

a. Configuring information

- All the user-configured data as listed below are defined and stored as the system setting(s)
 1. User Roles
 2. System Menu

3. Post Categories
 4. Subject Categories
 5. Test Types (Simulation, Lesson-Quiz)
 6. Question Levels (Hard, Medium, Easy)
 7. Lesson Types (Subject Topic, Lesson, Quiz)
 8. Subject Dimension (Domain, Group)
- Those are managed via the Settings List & Setting Details as mentioned above (in the part 2.g)
 - Other once-configured data are managed via the system config files.

b. User Input data format

The types & format (length, validation, etc) of the input data are suggested by the project team and need to be mentioned clearly in the analysing & designing documents.

- Those must be agreed upon by the supervisor (teacher) before implementation.
- Once agreed, those must be implemented accordingly in the software input validating, data showing and in the system database.