

TOPIC: Exams creating and managing system for teachers/lecturers

CHAPTER 1

1. GENERAL INTRODUCTION

In recent years, "Information Technology" has made its way to every part of our life and developed strongly in our country. The convenience and easiness of Information Technology applications is so crucial that we use them in almost all areas of life such as in education, businesses, agencies, industries, health care... We used to do it all by hands and papers, especially in education where thousands of paperwork need to be done precisely and fast. Time is of the essence and this has to change.

Even as of today, simple software like MS Word and Excel are still used in education for managing paperwork, from simple timetables to complicated e-bank storing, managing and distributing. We need something that is cheap, easy to use, to access from anywhere, anytime. To save time is to reduce the cost of everything else, and that is the main objective of a management system.

The system our team is building is based on a website, with its own database and functions, all included in a single URL that you can access via a web browser.

Building a complete system requires many factors. As a matter of fact, software engineering procedures must be followed precisely. Although we tried our best, due to limited time and limited conditions and lack of information at first, it is inevitable that there are shortcomings in this report. Without further ado, below are the details of how the system works and its prototype.

2. PROJECT INTRODUCTION

- 2.1. Name of project:
Developing software to manage exam questions and grading for teachers
- 2.2. List of project teams:
Hồ Văn Hiệu _19521497 (leader)
Nguyễn Thị Minh Loan _ 20521542
Đương Minh Thành_17521044
- 2.3. Project implementation time:
Total time: 1 Month
Start date: October 22, 2022
End date : November 22, 2022

3. TARGET

Complete project work according to technical requirements, within budget, on schedule
(Technical - Financial - Time)

Project management is the application of tools, knowledge, and techniques to define, plan, implement, organize, control, and close projects.

Building a software to "manage the making and marking of exams" in order to systematically improve the quality of management, reduce human labor, search, store and report statistical information easily and accurately

4. PROPOSED SOLUTIONS

E-Bank management and assessment are complicated tasks, requiring managers to have meticulous, thoughtful and scientific management methods. However, as data tends to grow larger, the number of E-bank questions increases, with different subjects, courses, the job of administrators becomes more and more problematic. The only solution to this problem is: to store them all on a computer. And specifically, online.

4.1. Schedule management

Teachers and lecturers will find it hard to reserve a room at a particular time for planning an exam without any means to check for reservations, as for the school to manage and consult with the responsible teachers/lecturers. A schedule system is in need to ensure teachers and lecturers can coordinate time and place for an upcoming exam in the most scientific way possible.

4.2. Planning, arranging and assessing exams manually

Teachers and lecturers can create, edit and plan an exam manually on the system, with rules and orders applied to ensure consistency and precision. An assessment will also be automatically created after an exam has ended or after a particular date, with a deadline and objectives assigned by the administrators of the system (high level personnel of the school, responsible faculties v.v.). Questions for an exam can also be manually and customarily created. They will then be collected and stored in the E-bank database.

4.2.1. Regularly review and check

While choosing the exam questions, the teacher can mess up the position of each question. Therefore, to be able to ensure the position of each exam question in the library, regularly review and check each item to detect problems that arise, and find ways to fix them in a timely manner. For that matter the system also support removing, editing exam, test questions.

When a new exam is imported to the E-bank database, it requires the teacher/lecturer's account and authentication to enable access to the E-bank database, then from there the new exam will receive a code that is associated with the responsible uploader.

Teachers/Lecturers can only obtain an account from the school's system administrators. Teachers/Lecturers must fill in all the required information on the registration form. The administrators will check the information whether if they are correct and will proceed to save the information in the system, granting an account for them.

Each account contains the teacher/lecturer's basic information, the department he/she is in, a schedule for exams, assessment results and the ability to access the E-bank database at will. The teacher/lecturer can also add, edit exams created by them but not others', and exams will be validated once uploaded into the database.

The administrators report directly back to the school.

4.2.2. System building

As mentioned in 1., the system will be a website, including its own database and functions like grading, assessment and schedule management, exams planning and making. The website will be built based on:

- Front end: HTML5, CSS, Java script
- Back end: Java
- Library: Node.js
- Database: SQL server, SSMS
- Design prototype: Figma
- Testing platform (browser): Google Chrome(MS Windows 10)

4.3. Required list

#	Name of requirements	Form	Rules	Notes
1	Compose the question	Form 1	Rule 1	
2	Compose the exam	Form 2	Rule 2	
3	Score recognition	Form 3	Rule 3	
4	Look up the exams	Form 4	Rule 4	
5	Make annual report	Form 5	Rule 5	

4.4. List of forms and requirements

4.4.1. Requirements for making a list of questions

Form 1 <p style="text-align: center;">QUESTION</p> <p>Subject:</p> <p>Level:</p> <p>The content of the question:</p>

Rule 1:

- The lecturer is currently teaching 4 subjects.
- There are 4 difficulty levels (Easy, Medium, Complex, Hard).

4.4.2. Requirements for making a list of exam

Form 2	EXAM
Exam name:	Class name:
Exam duration:	Exam form:
Times:	
Question 1: The content of the question 1.	
Question 2: The content of the question 2.	

Rule 2:

- There are two forms of the exam (documented, non-documented).
- The test has a maximum of 5 questions.
- A subject has a maximum of two exams (1st time, 2nd time).
- The lecturer estimates the number of classes taught in a year to be 50 classes
- The maximum exam duration is 180 minutes and the minimum is 30 minutes.

4.4.3. Requirements for making the result

Form 3	EXAM RESULTS				
Exam name:					
Class name:					
Instructor's name:					
#	Student ID	Full name	Scores	Letter point	Notes
1					
2					

Rule 3: Minimum score is 0 and maximum is 10

4.4.4. Requirements for making list of the exam

Form 4	LIST OF EXAM				
#	Exam code	Class name	Exam duration	Exam day	Exam form
1					
2					

4.4.5. Requirements for making annual report

Form 5	THE REPORT
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Year:					
Total exams:			Total marks:		
#	Subject name	Number of exams	Total marks	Exam rate	Score rate
1					
2					

CHAPTER 2

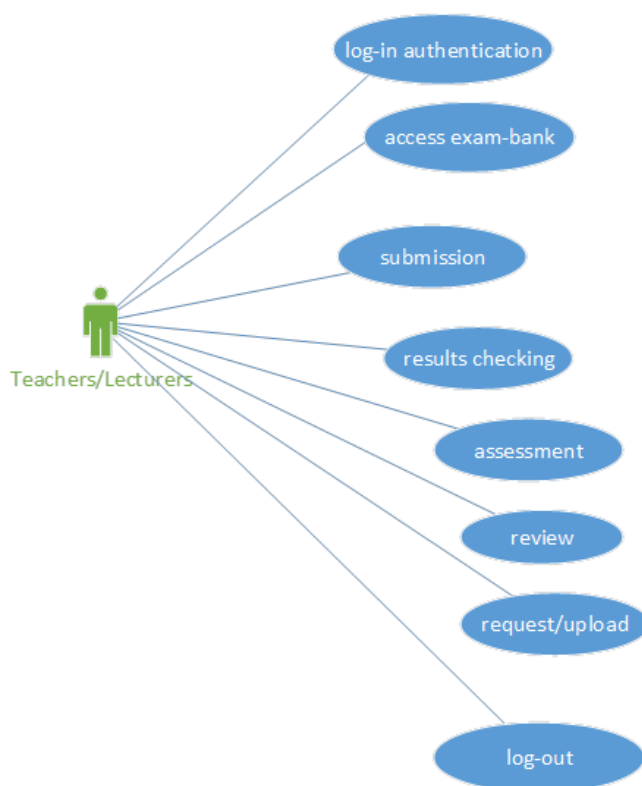
5. Use Case model

5.1. List of Actor

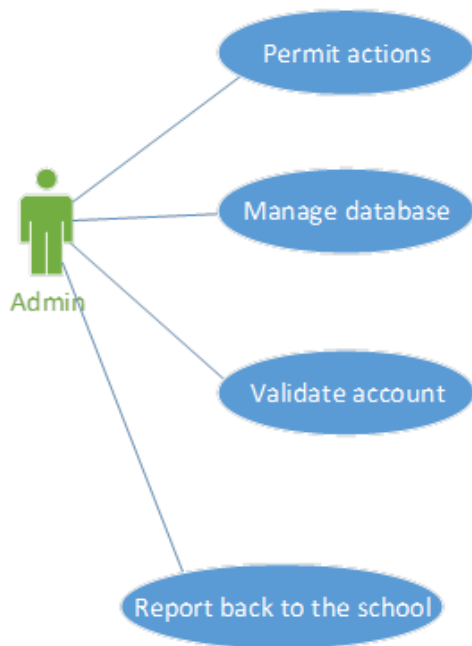
#	Actor	Meaning, Notes
1	Instructor	Responsible for creating questions and exam
2	Students	View, search the list of exam
3	Management	Manage data, add/remove accounts
4	Principal	The full access

5.2. Use case diagram

5.2.1. Use case for instructors



5.2.2. Use case for Admin



5.3. List of Use case

#	Use case	Meaning
1	Log-in	Log-in using an account
2	Log-out	Log-out from the system
3	Access E-bank	Access the exam-bank of the school
4	Submit	Task and work submission
5	Check results	Exams' results checking
6	Assess exams	Exams' grading and valuation
7	Review	Exams review
8	Request/Upload	Create(request) and upload test questions to the E-bank
9	Permit actions	Permit actions of the TEACHER/LECTURER actor
10	Manage database	Database management
11	Validate account	Account validation
12	Report	Report details back to the school

5.4. Use case Specification

5.4.1. Log-in

Use case Log-in		
Describe	Log-in using an account	
Agent	Lecturers, administrator	
Main stream	Agent's behavior	System's behavior
	1. User clicks on login button	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	A1. User entered wrong account/password	
	5. Requires re-login	
	Go back to step 2	

Preconditions	Must be a teacher or administrator with an account on the system
Following conditions	Logged in to the system

5.4.2. Log-out

Use case Log-out		
Describe	Log-out from the system	
Agent	Lecturers, adminnistrator	
Main stream	Agent's behavior	System's behavior
	1. User clicks on logout button	2. Show logout form
		3. Successful logout message
Alternative stream		
Preconditions	Logged into the system	
Following conditions		

5.4.3. Access E-bank

Use case Access E-bank		
Describe	Access the exam-bank of the school	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. User clicks on "Test bank" button	2. Show list of "Test bank"
	3. Select the exam users want to see	4. Show the content of the exam
Alternative stream		
Preconditions	The agent has logged into the system.	
Following conditions		

5.4.4. Submit

Use case Submit		
Describe	Task and work submission	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Create the assessment details	2. Show "STEP1:Create the assessment details" form
	3. Enter the requested information	4. The screen will skip to STEP 2: Adding questions
	5.Create the questions	6. The interface screen will move to STEP 3: Begin assessment - Begin assessment later - Begin assessment now
	Agent chooses 1 of 2 choices	
Alternative stream		

Preconditions	Logged in to the system
Following conditions	

5.4.5. Check results

Use case Check results		
Describe	Exams' results checking	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. User clicks on the "Check results" button	2. Displays the list of topic
	3. Select the topic	4. Displays the list, scores of students who have taken the topic and display the top 10 students with the highest scores in the topic
Alternative stream		
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions		

5.4.6. Assess exams

Use case Assess exams		
Describe	Exams' grading and valuation	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	A1. User entered wrong account/password	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

5.4.7. Review

Use case Review		
Describe	Exams review	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form

	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	<i>A1. User entered wrong account/password</i>	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

5.4.8. Request/Upload

Use case Review		
Describe	Create(request) and upload test questions to the E-bank	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	<i>A1. User entered wrong account/password</i>	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

5.4.9. Permit actions

Use case Review		
Describe	Permit actions of the TEACHER/LECTURER actor	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	<i>A1. User entered wrong account/password</i>	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	

Following conditions	Logged in to the system
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5.4.10. Manage database

Use case Review		
Describe	Database management	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	<i>A1. User entered wrong account/password</i>	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

5.4.11. Validate account

Use case Review		
Describe	Account validation	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form
	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	<i>A1. User entered wrong account/password</i>	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

5.4.12. Report

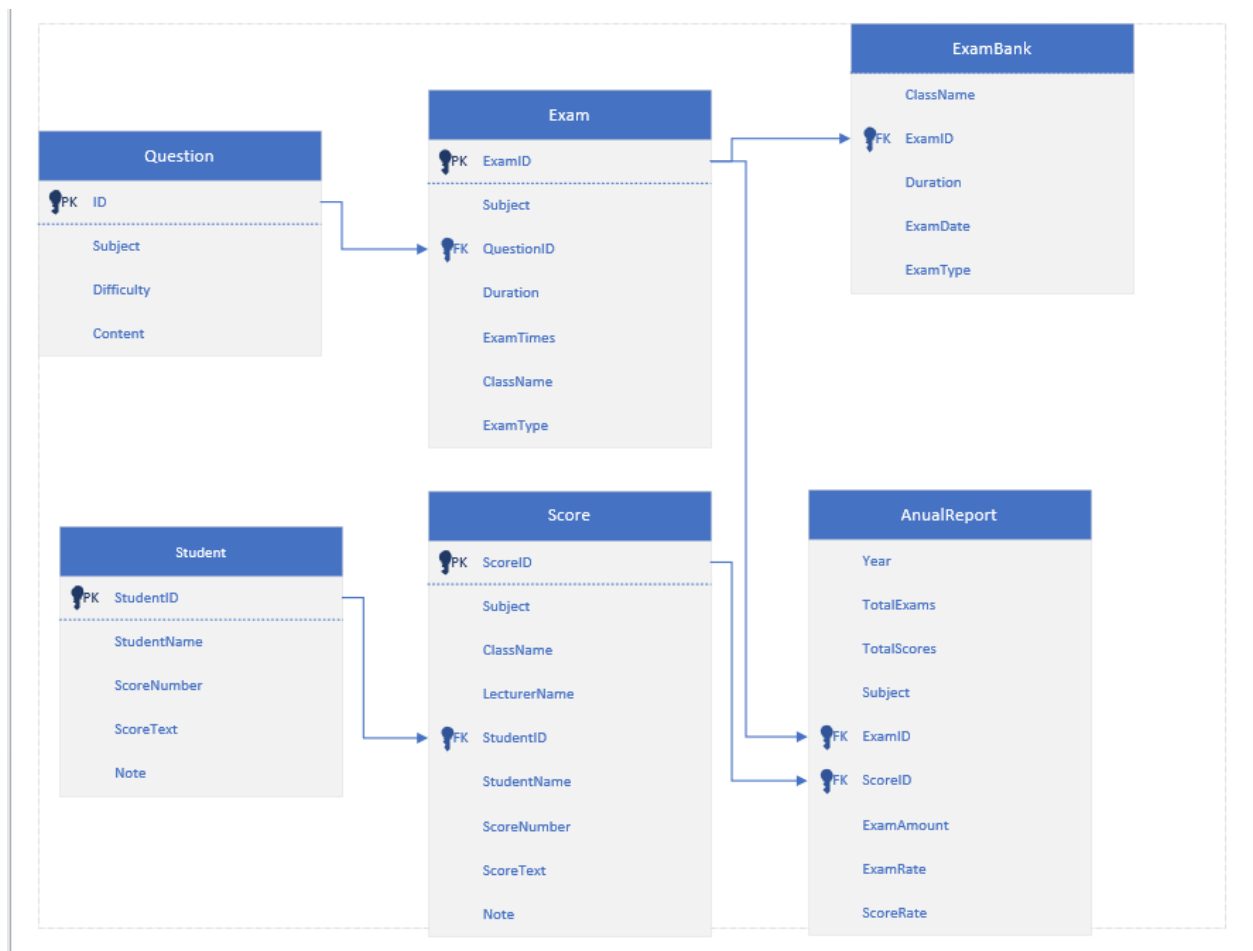
Use case Review		
Describe	Report details back to the school	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1.	2. Show login form

	3. Enter the username and password in the form	4. Check account name and password
		5. Successful login message
		6. Switch to main interface
Alternative stream	A1. User entered wrong account/password	
	5. Requires re-login	
	Go back to step 2	
Preconditions	Must be a teacher or administrator with an account on the system	
Following conditions	Logged in to the system	

CHƯƠNG 3. PHÂN TÍCH

3.1. Sơ đồ lớp

3.1.1. Sơ đồ lớp mức phân tích



3.1.2. Danh sách các lớp đối tượng

STT	Tên lớp
1	Câu hỏi
2	Bài thi
3	Kho bài thi

4	Điểm
5	Báo cáo năm
6	Học sinh

3.1.3. Danh sách quan hệ

STT	Tên quan hệ
1	Câu hỏi_Bài thi
2	Bài thi_Kho bài thi
3	Học sinh_Điểm
4	Điểm_Báo cáo năm
5	Bài thi_Báo cáo năm

3.1.4. Mô tả từng lớp đối tượng

3.1.4.1 Câu hỏi

Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	ID	Mã câu hỏi
	Subject	Tên môn học
	Difficulty	Độ khó
	Content	Nội dung câu hỏi

3.1.4.2 Bài thi

Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	ExamID	Mã bài thi
	Subject	Tên môn học
	QuestionID	Mã câu hỏi
	Duration	Thời lượng làm bài
	ExamTimes	Số lần làm bài thi
	ClassName	Tên lớp
	ExamType	Loại bài thi

3.1.4.3 Kho bài thi

Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	ClassName	Tên lớp
	ExamID	Mã bài thi
	Duration	Thời lượng làm bài
	ExamDate	Ngày làm bài thi
	ExamType	Loại bài thi

3.1.4.4 Học sinh

Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	StudentID	Mã học sinh

	StudentName	Tên học sinh
	ScoreNumber	Điểm số
	ScoreText	Điểm chữ
	Note	Ghi chú

3.1.4.5 Điểm

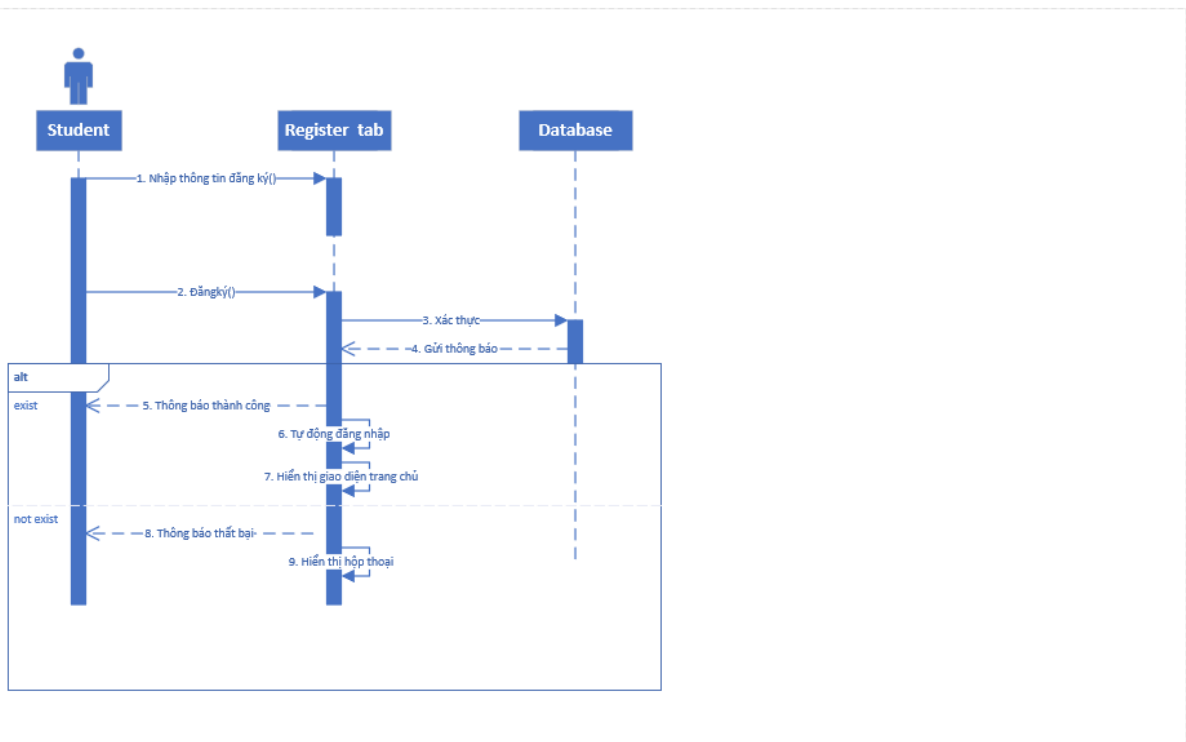
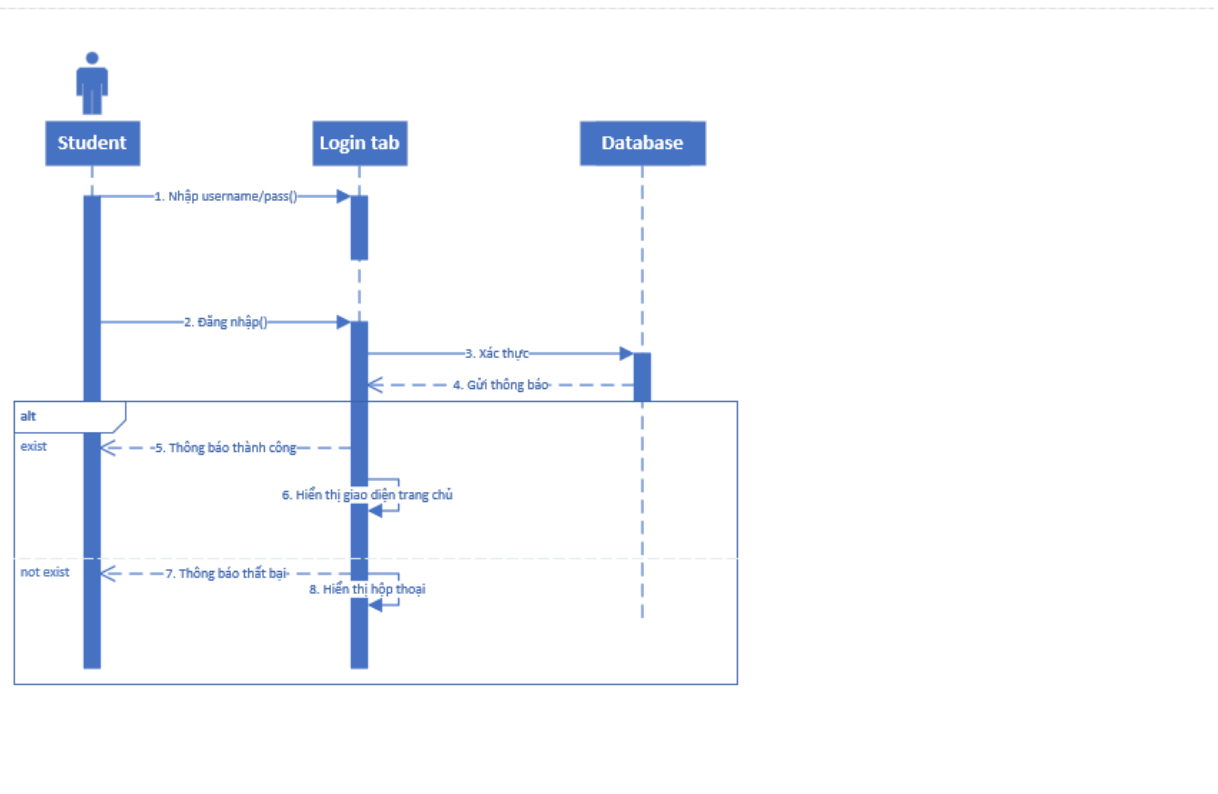
Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	ScoreID	Mã điểm số
	Subject	Tên môn học
	ClassName	Tên lớp
	LecturerName	Tên giảng viên
	StudentID	Mã học sinh
	StudentName	Tên học sinh
	ScoreNumber	Điểm số
	ScoreText	Điểm chữ
	Note	Ghi chú

3.1.4.6 Báo cáo năm

Mô tả	Thuộc tính và hàm	Diễn giải
Lưu thông tin câu hỏi	Year	Năm
	TotalExams	Tổng số bài thi
	TotalScore	Tổng số bài chấm
	Subject	Tên môn học
	ExamID	Mã bài thi
	ScoreID	Mã điểm số
	ExamAmount	Số lượng bài thi
	ExamRate	Tỉ lệ bài thi
	ScoreRate	Tỉ lệ điểm

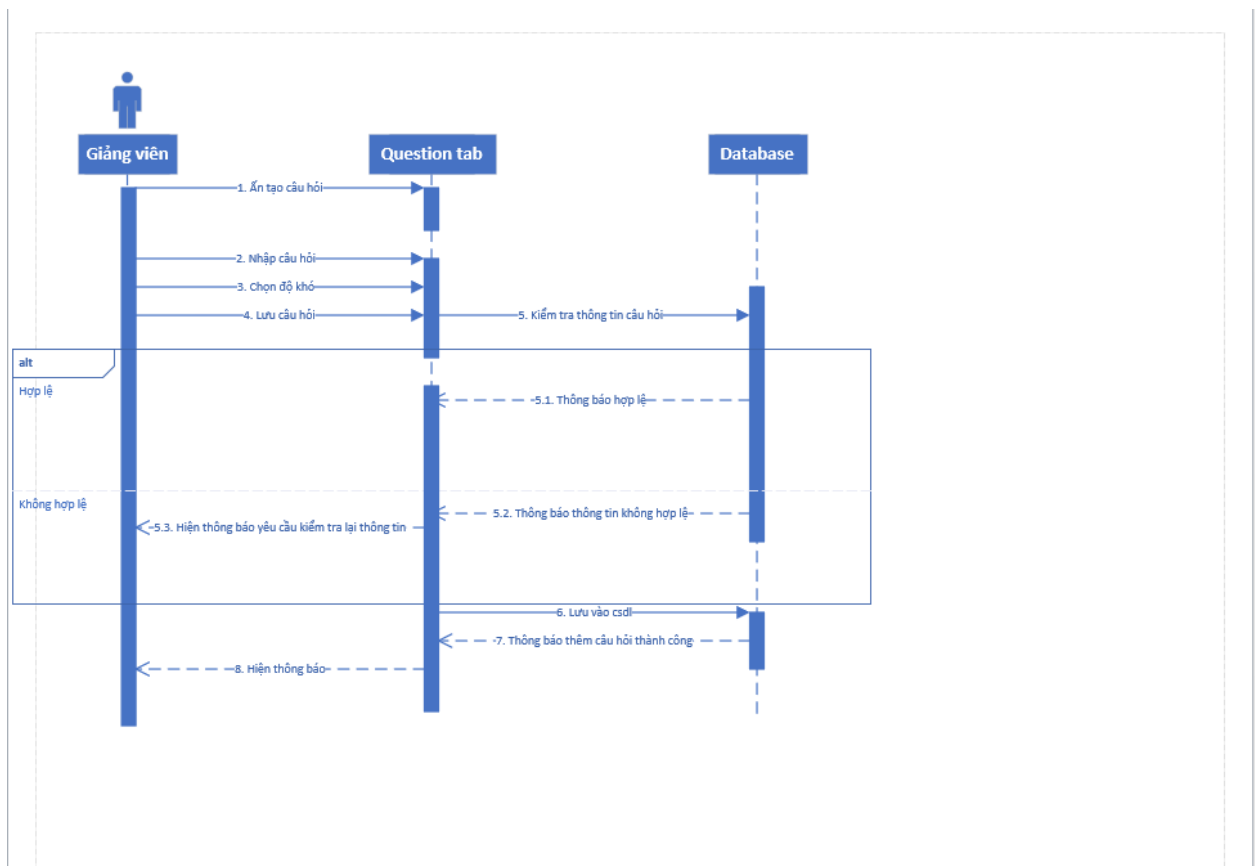
3.2. Sơ đồ tuần tự

3.2.1. Đăng nhập / Đăng xuất / Đăng ký

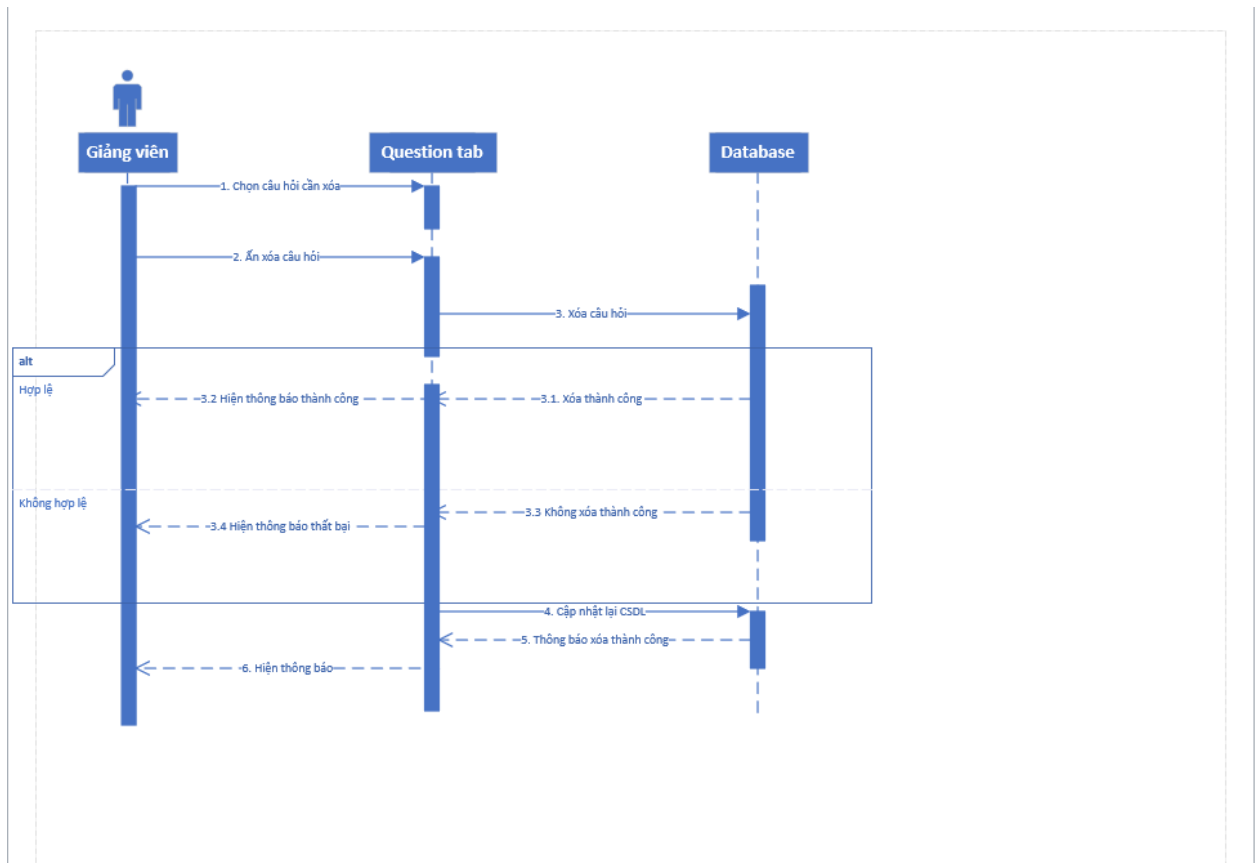


3.2.2. Soạn câu hỏi

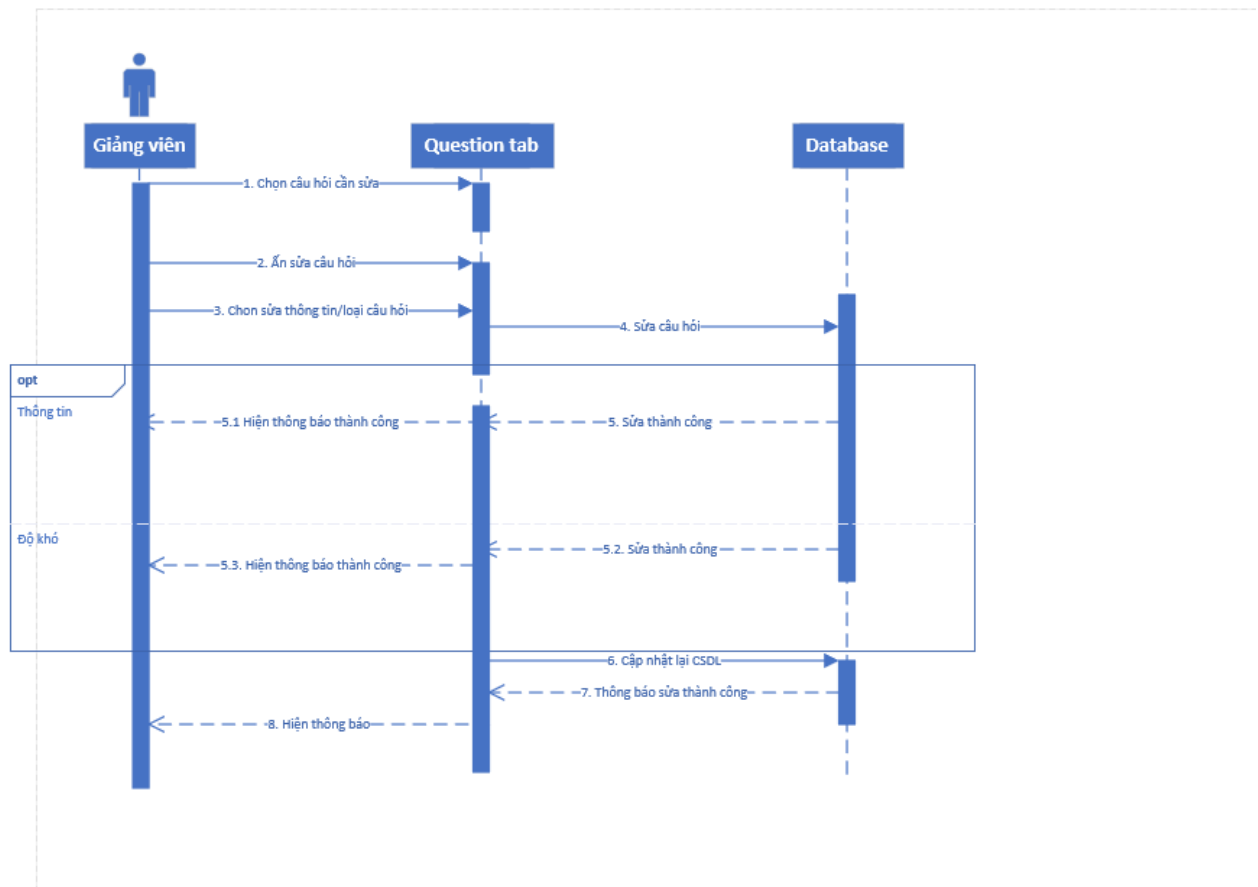
3.2.2.1 Thêm câu hỏi



3.2.2.2 Xóa câu hỏi

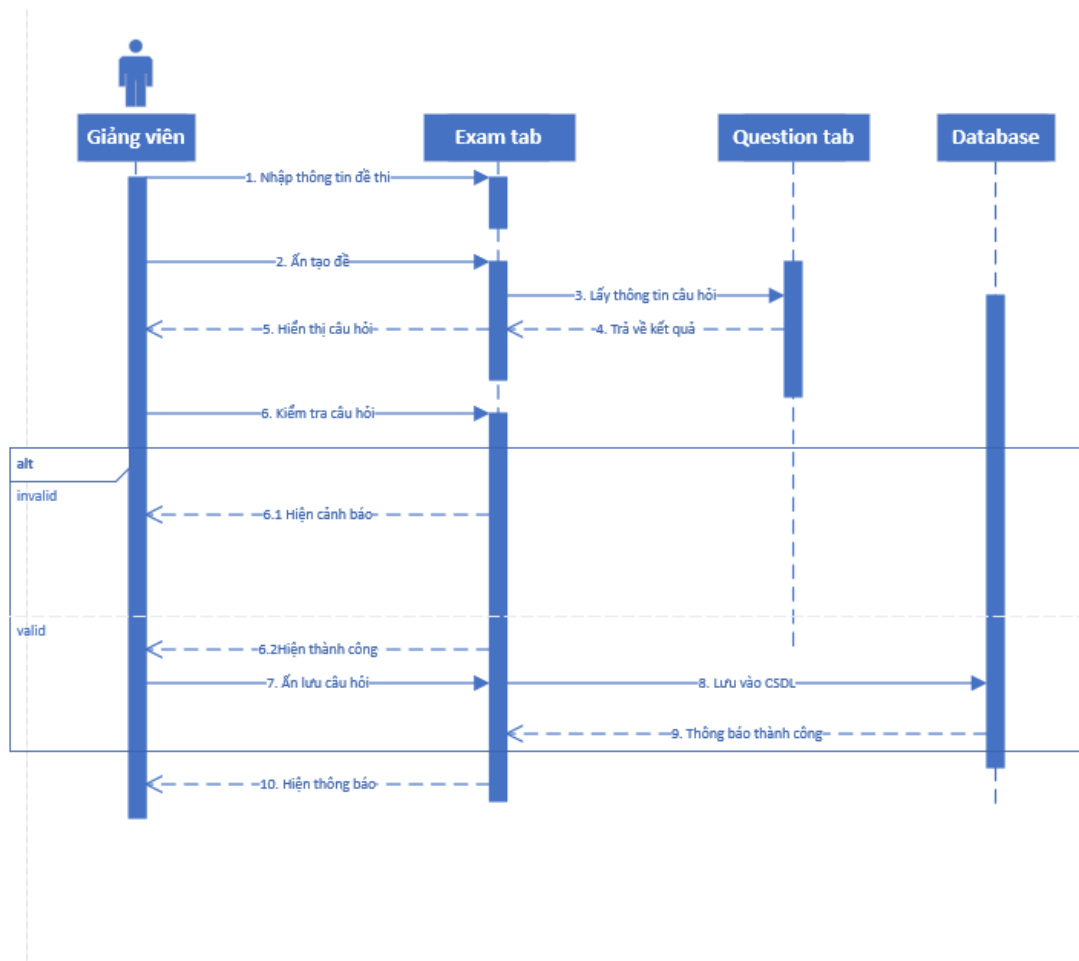


3.2.2.3 Sửa câu hỏi

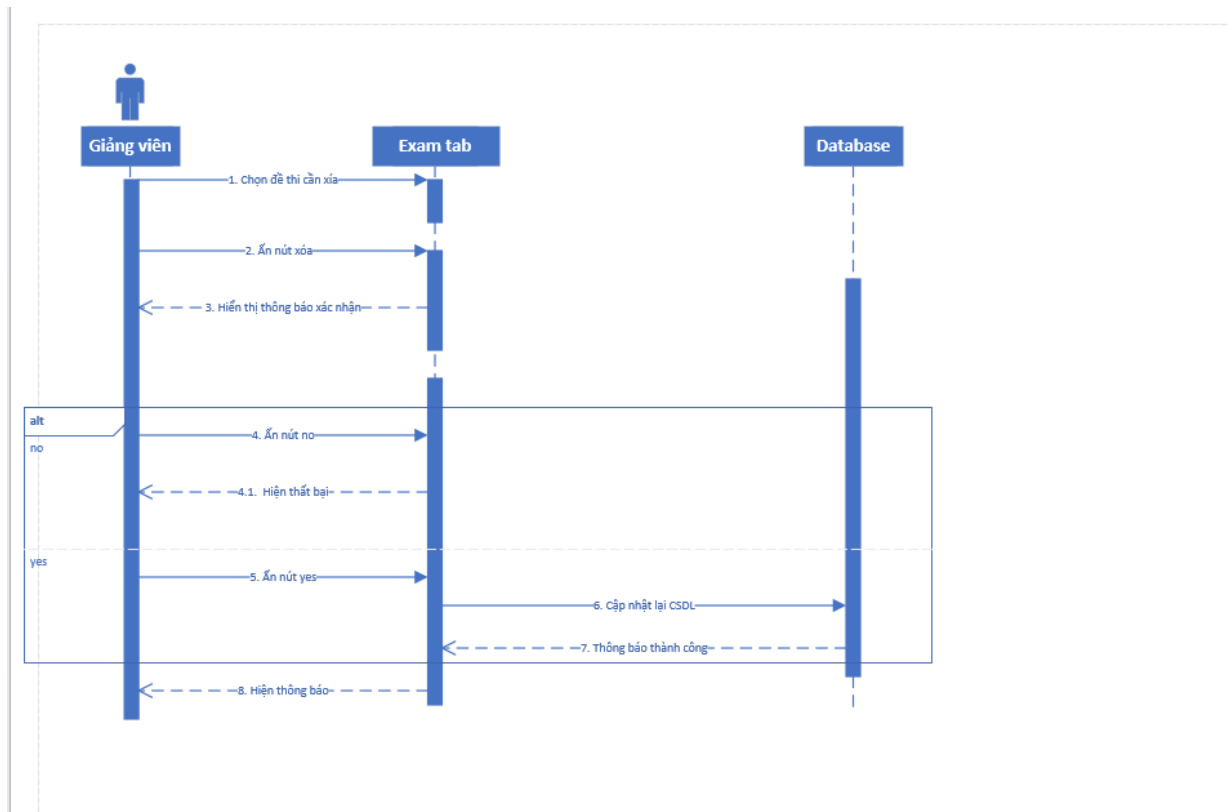


3.2.3. Soạn bài thi

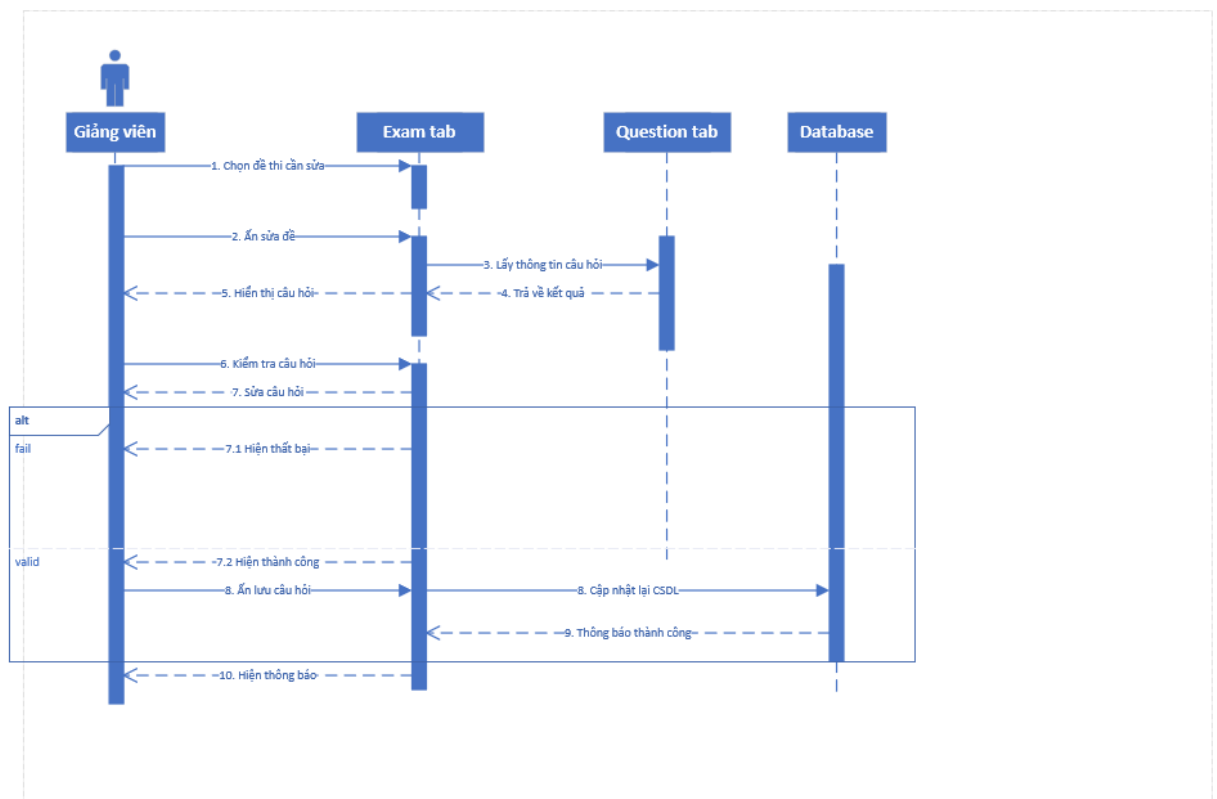
3.2.3.1 Sửa bài thi



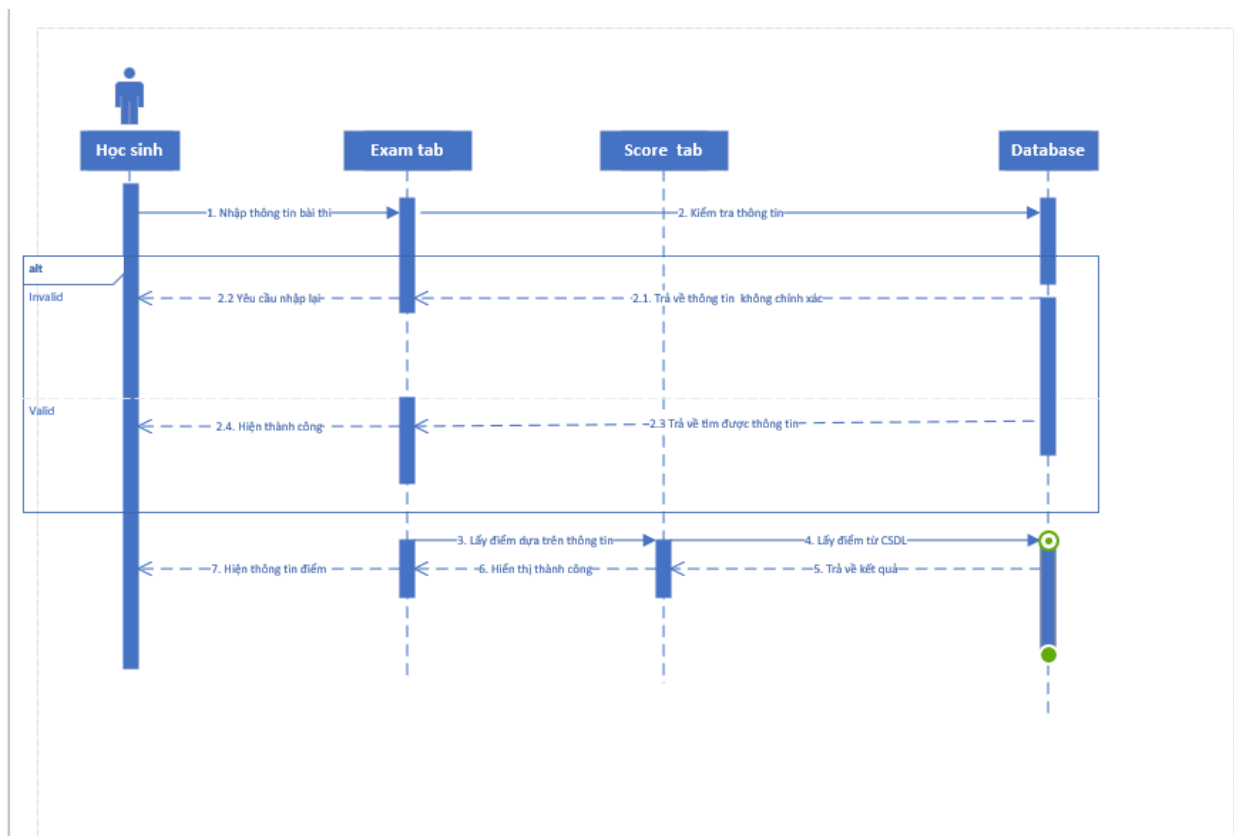
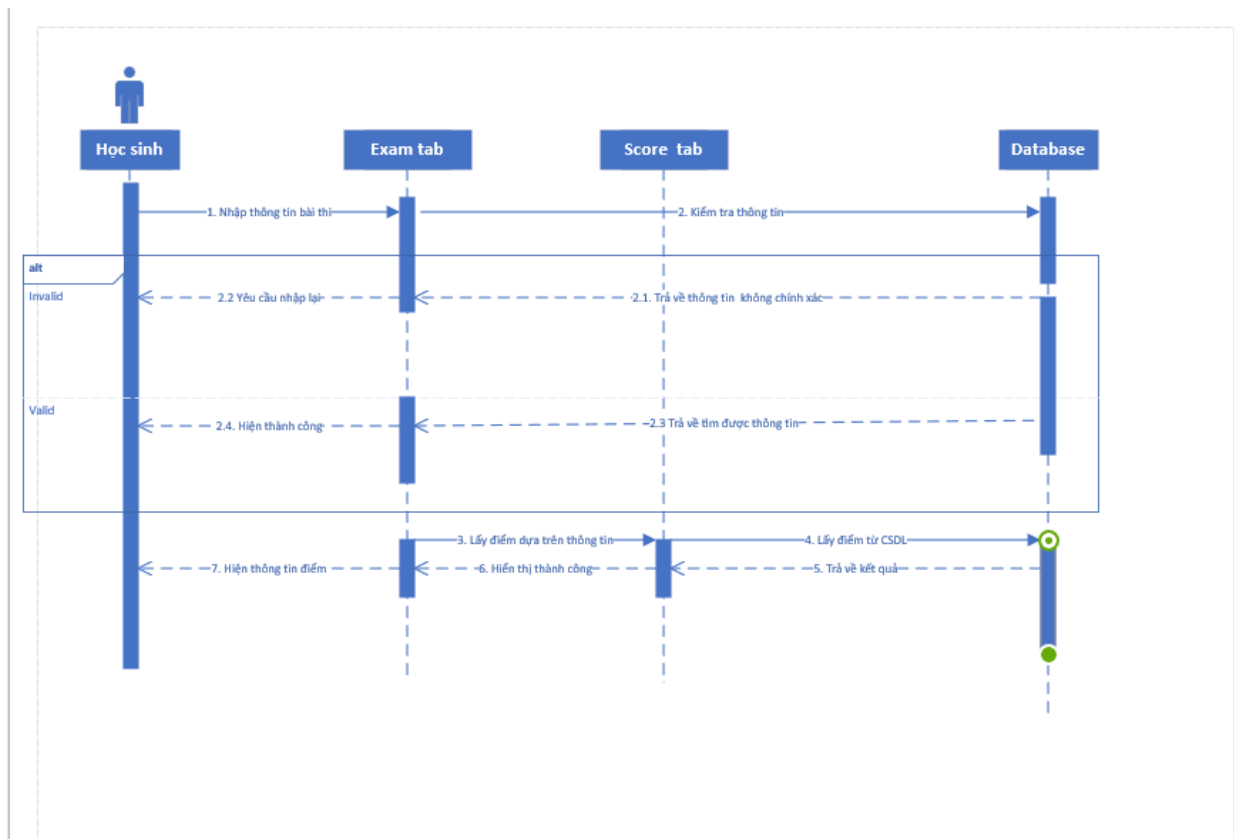
3.2.3.2 Xóa bài thi



3.2.3.3 Sửa bài thi



3.2.4. Kết quả chấm thi



3.2.6. Kết quả chấm thi

CHAPTER 4

CHAPTER 5

INTERFACE DESIGN

1.1. List of pages

#	Name	Type	Function
1	Log-in	Input page	Allows user to log in
2	Dashboard	Main page	Displays information about exams schedule, students' reports and to-do list
3	My Department	Information page	Displays information about users departments and functions inside of it
3.1	Assessment		Allows users to assess exams and check for finished ones
3.1.1	Exam Summary	Information page	Displays exam summary
3.1.2	Create Assessment Adding details	Input page	Allows users to create an assessment and add details like duration, location, title, description
3.1.3	Create Assessment Adding questions		Allows users to add questions from My Test Bank to the assessment
3.1.4	Create Assessment Begin assessment		Allows users to schedule the newly created assessment
3.2	Submission		Allows users to submit works, assessment
3.3	Review form	Input page	Allows users to write a review form regarding exams and test results
4	Profile	Information page	Displays account's information
5	Drive	Upload page	Allows users to upload files to the school's drive
6	My Test Bank	storage page	Used to create, store and manage users' test questions, exams
6.1	Add questions - multiple choices		Allows users to add questions of multiple methods (MC, T/F, open) and store them inside My Test Bank
6.2	Add questions - true/false		

6.3	Add questions - open		
6.4	View questions - multiple choices		Allows users to view questions that were created
6.5	View questions – true/false		
6.6	View questions – open		
7	E-Library	Information page	Used by the school's administrators to manage the Exam bank and is used by users to download, view and export exams from the E-library database

1.2. Detailed description of each page

1.2.1. Dashboard Interface:

STEP

+ NEW

Upcoming Tests

[See all](#)

Computer Science 1 - Final
CS1113.N11.CTTT
1 PM December 14
Documents are not allowed
Examinee: 25

Computer Networking - Final
CS4283.L21.CTTT
7:30 A.M December 15
Documents are not allowed
Examinee: 22

System Analysis & Design - Final
MSIS3303.M22.CTTT
9 A.M December 20
Documents are allowed
Examinee: 30

Software Engineering - Final
CS4273.N11.CTTT
9 A.M December 21
Documents are not allowed
Examinee: 3

TO-DO LISTS

[See all](#)

Test Submission
November 17, 2021
Please prepare and submit your work before the deadline. Thank you.
- Cao Thi Nhan
Submission Deadline
8:00 am | August 20, 2021

STUDENTS REPORTS


[See all](#)

Report 1 - TCP/UDP
Computer Networking
Deadline: August 17, 2021 at 12:00am
Turned in: 15/20
Posted: August 15, 2021 at 1:00pm


Report - Computer Science 1
Programming 1
Deadline: August 22, 2021 at 12:00am
Turned in: 1/20
Posted: August 19, 2021 at 1:00pm


1.1.1. Log-in screen Interface:


University of Information Technology




Please log in to continue to the dashboard

 Email:





 Password:



Log in

1.1.2. Assessment page
Interface:

STEP



ASSESSMENTS

[Back](#)

ACTIVE

Midterm - Computer Science 1
CS1113.N11.CTTT
October 24

Deadline: November 30, 2021 at 12:00am

Taken: 18/23

Posted: November 27, 2021 at 1:00pm [Close](#)

Midterm - Computer Networking
CS4283.L21.CTTT
October 26

Deadline: November 30, 2021 at 12:00am

Taken: 44/45

Posted: November 27, 2021 at 1:00pm [Close](#)

TBA

Taken: 0/0

[Close](#)

Midterm - System Analysis and...
MSIS2303.M22.CTTT
October 30

Deadline: November 30, 2021 at 12:00am

Taken: 38/38

Posted: November 27, 2021 at 1:00pm [Close](#)

Midterm - Software Engineering
CS4273.N11.CTTT
November 2

Deadline: November 30, 2021 at 12:00am

[Begin Now](#)

Posted: October 27, 2021 at 1:00pm

ENDED

Midterm - Database System
CS5423.L22.CTTT
May 26


Deadline: July 30, 2021 at 12:00am

Taken: 23/23

Posted: July 27, 2021 at 1:00pm [Re-open](#)

1.1.3. Submission Interface:

×



Software Engineering I Midterm
Created: October 27, 2021 at 1 PM
Deadline: November 30, 2021 at 12 A.M
[Download File: CS4273midtermAssessmentReport.pdf](#)

Description:

SUBMIT YOUR WORK

MyAssessment_Output.pdf
September 20, 2021

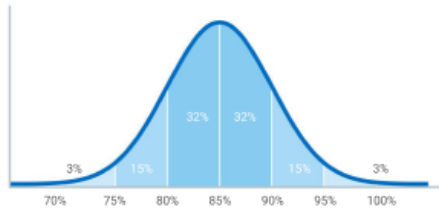
UPLOAD

1.1.4. Exam Summary Interface:

Final Term Exam Summary System Analysis and Design



STUDENT PERFORMANCE CURVE



TOP 10

1. Cao Quang Khai	98%
2. Tran Bao Loc	96.7%
3. Le The Hai	96%
4. Le Duc Manh	93.3%
5. Ho Nguyen Ngoc Minh	91%
6. Vu Duy Khang	90%
7. Le Bao Tran	89.7%
8. Lam Truong Vu	88%
9. Nguyen Cao Ky Duyen	87.9%
10. Le Phuong Thao	87%

? Answer Sheet is not **Enabled**.

Enable

STUDENT REMARKS

Cao Quang Khai	PASSED
Nguyen Cao Ky Duyen	PASSED
Le Duc Manh	PASSED
Tran Tri Nguyen	FAILED
Nguyen Van Khai	PASSED
Le Bao Tran	PASSED
Dao Duy Tien	PASSED
Nguyen Dai Ky	NE
Le The Hai	PASSED
Ho Nguyen Ngoc Minh	PASSED
Tran Bao Loc	PASSED
Le Minh Hieu	PASSED
Lam Truong Vu	PASSED
Nguyen Phi Hung	FAILED
Tran Minh Thang	FAILED
Vu Duy Khang	PASSED
Le Phuong Thao	PASSED

1.1.5. Review form Interface:

CREATE REVIEW

X

- Select Your Exam -

Enter Text Here

☐ pin this review

☐ disable comment

No file chosen

No file chosen

My Drive

Upload File

Post

Are you sure you want to exit and
discard this post?

Go back

Yes, Discard

1.1.6. Profile Interface:

ACCOUNT


×

Profile

Tom Ho

(+84) 3660 - 727 -83 | CS

hieuhovan954@gmail.com



Address

University of Information Technology, Linh Xuan, Thu Duc, HCM city

Contact details

0366072783

none

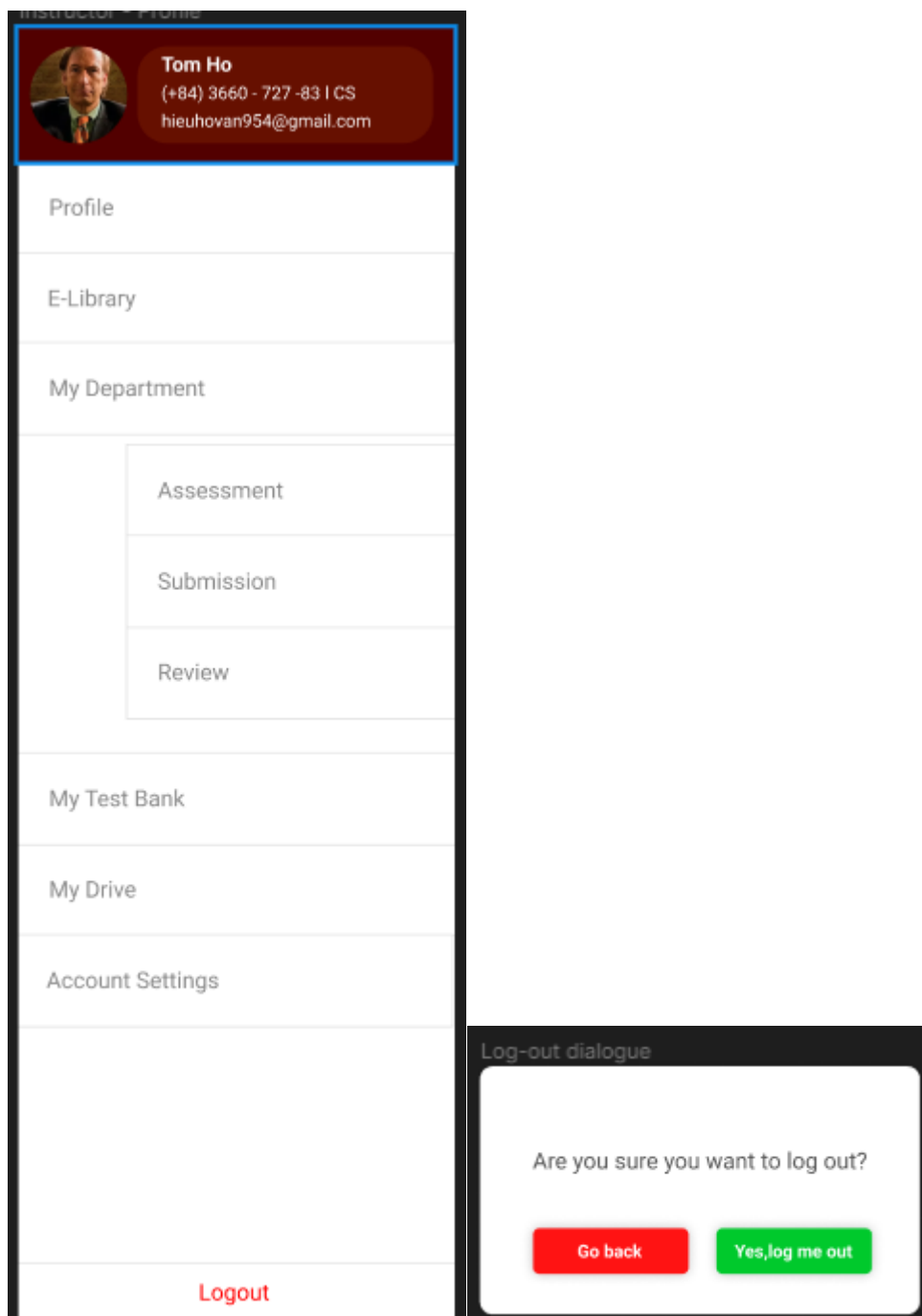
68 Hoa Dao, ward 2, Phu Nhuan district, HCM city

Contact person in case of emergency

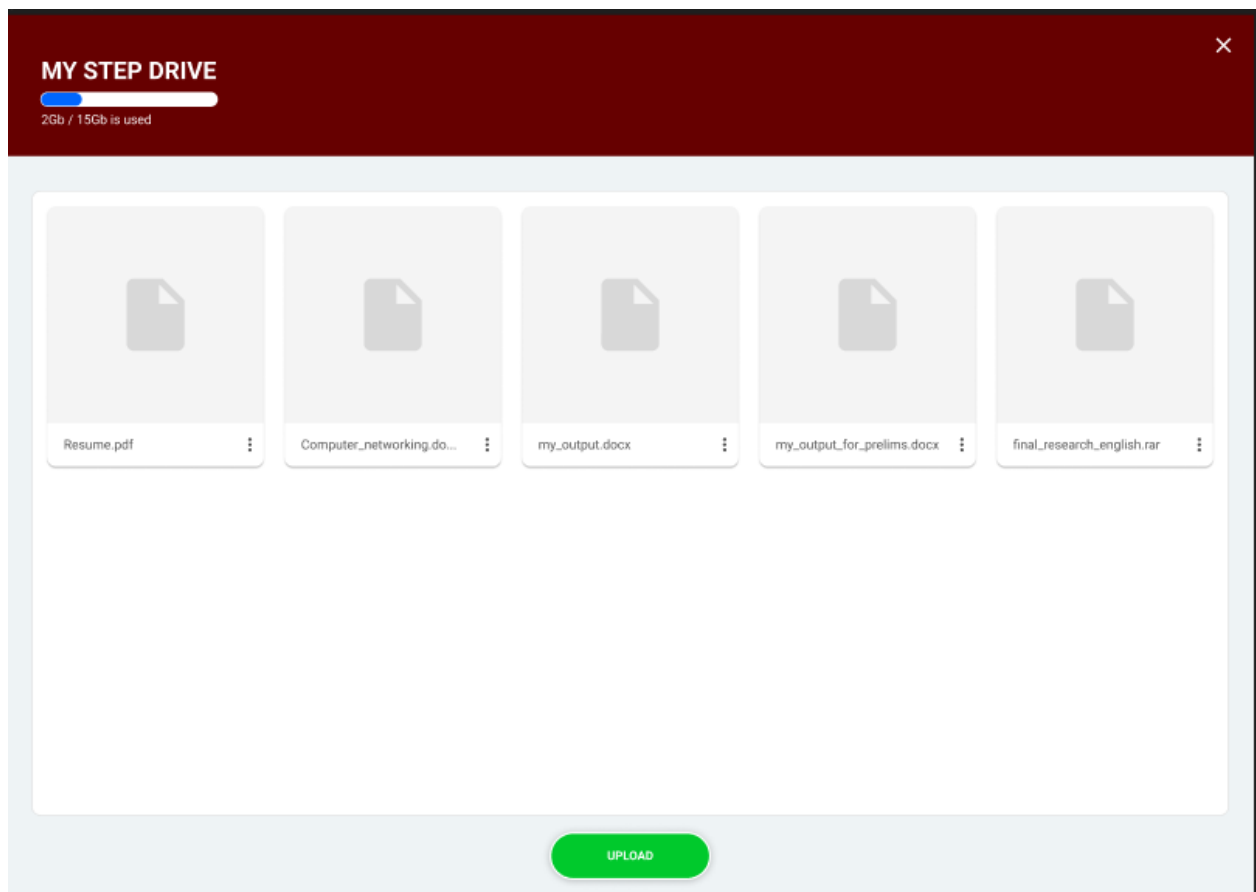
Saul Goodman

(505) 503-4455

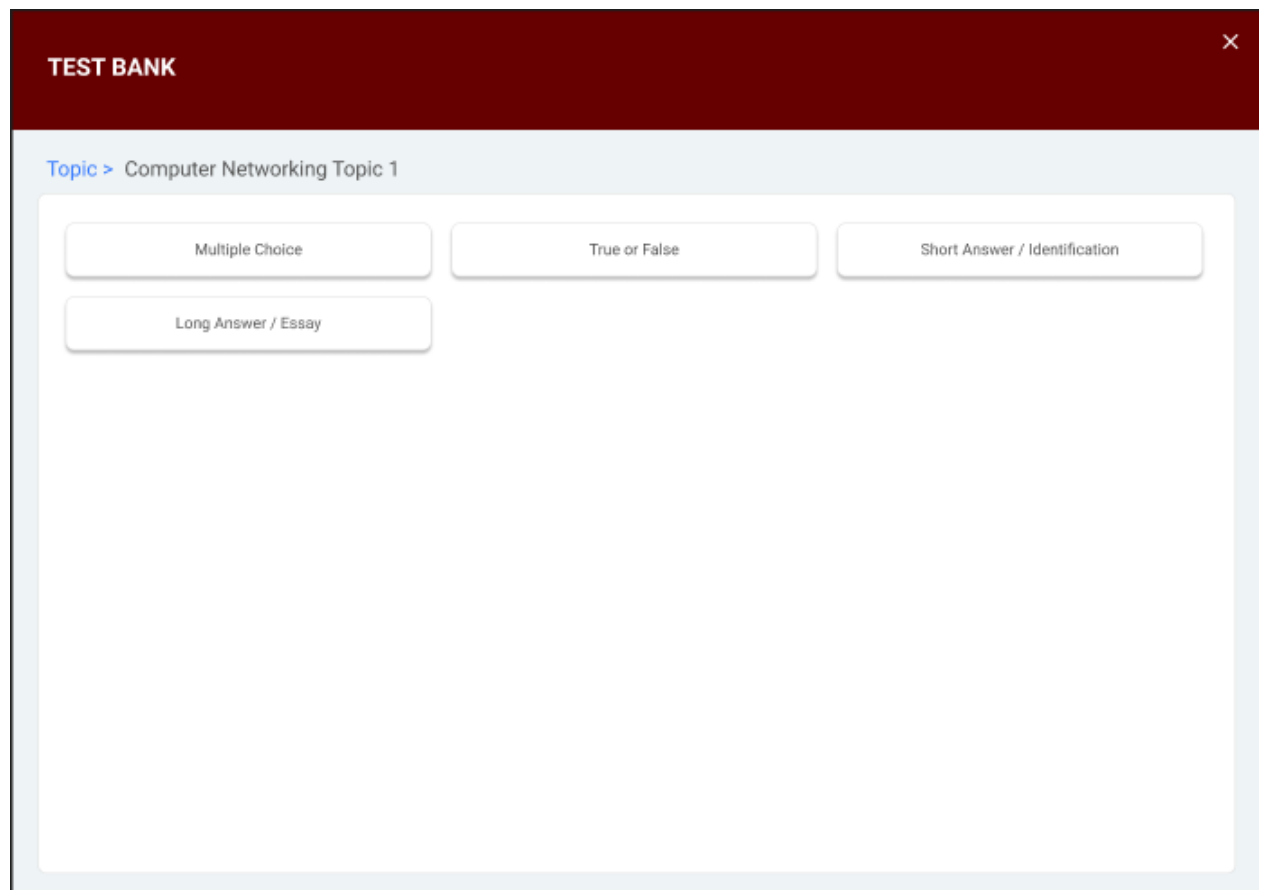
1.1.7. Sub-profile and log-out dialogue Interface:



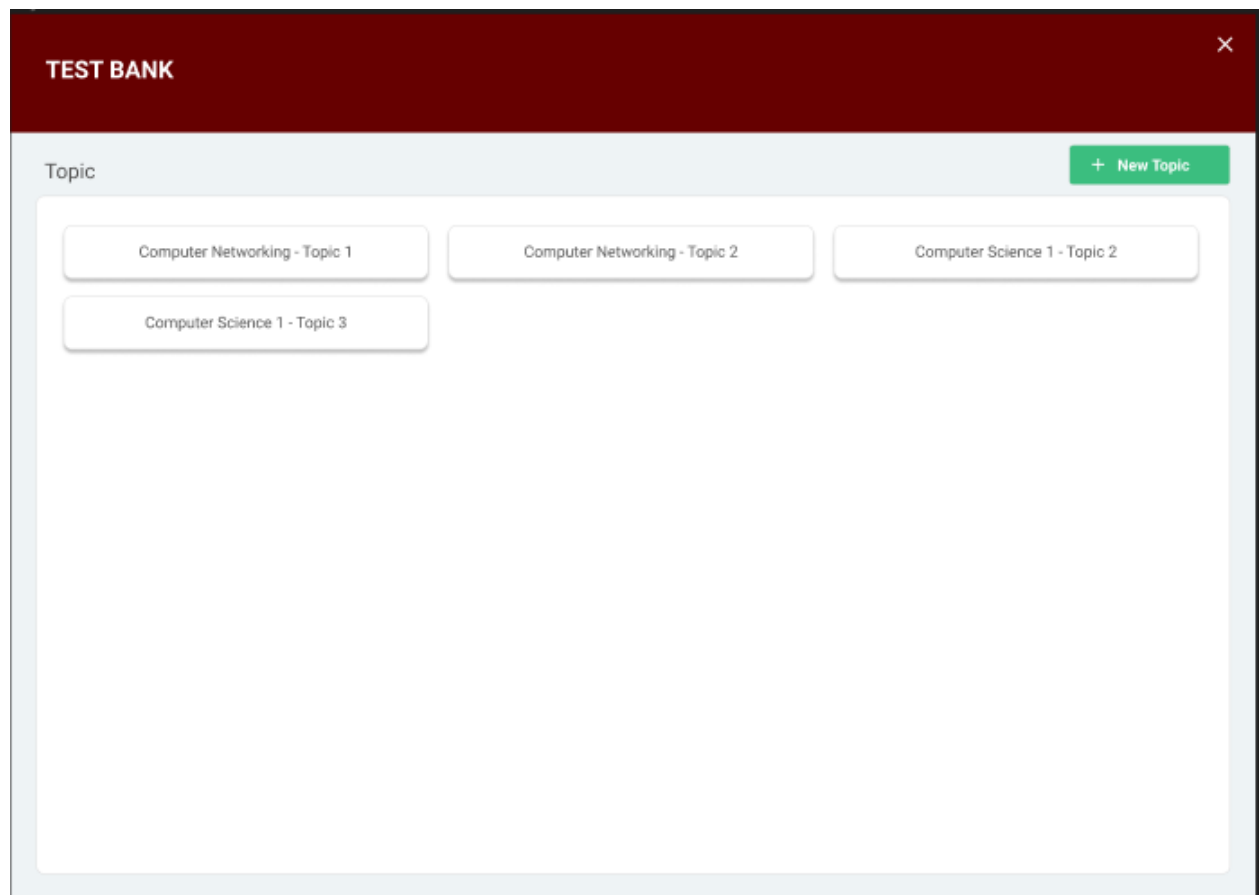
1.1.8. Drive Interface:



1.1.9. My Test Bank Interface:



Choosing methods in My Test Bank













Choosing test topic from the available collection

TEST BANK

Topic > Computer Networking Topic 1 > Multiple Choice

+ Add Question

The Internet was created in 1983		
The Internet and the World Wide Web are essentially the same thing.		
Today many aspects of human-computer interaction are influenced by older technologies.		
Despite its growth, the video game industry still brings in smaller revenues than the U.S. box office.		
The video game industry is unlike other media industries in that it has not seen consolidation.		

Viewing TRUE/FALSE questions to the assigned topic in My Test Bank

TEST BANK



Topic > Computer Networking Topic 1 > Multiple Choice

+ Add Question

The Internet was created in 1983		
True	False	
The Internet and the World Wide Web are essentially the same thing.		
Today many aspects of human-computer interaction are influenced by older technologies.		
Despite its growth, the video game industry still brings in smaller revenues than the U.S. box office.		
The video game industry is unlike other media industries in that it has not seen consolidation.		

TEST BANK



Topic > Computer Networking Topic 1 > Multiple Choice

+ Add Question

Host A receives a frame and discards it after determining it is corrupt. Which OSI layer checks frames for errors?		
A user sends an HTTP request to a web server on a remote network. During encapsulation for this request, what information is added to the address field of a frame to indicate the destination?		
Which Rapid Spanning Tree Protocol port state is a combination of standard 802.1D STP's disabled, blocking and listening states?		

Viewing Multiple choices questions to the assigned topic in My Test Bank

TEST BANK

Topic > Computer Networking Topic 1 > Multiple Choice

+ Add Question

Host A receives a frame and discards it after determining it is corrupt. Which OSI layer checks frames for errors?			
Application	Network		
Physical	Data-link		
A user sends an HTTP request to a web server on a remote network. During encapsulation for this request, what information is added to the address field of a frame to indicate the destination?			
Which Rapid Spanning Tree Protocol port state is a combination of standard 802.1D STP's disabled, blocking and listening states?			

Are you sure you want to exit and discard this question?

Go back

Yes, Discard

TEST BANK

Question | Computer Networking > Multiple Choice

Enter text here

Add Image

No file chosen

Option 1

Add Image

No file chosen

Option 2

Add Image

No file chosen

Option 3

Add Image

No file chosen

Option 4

Add Image

No file chosen

+ Add Option

Discard

Next Question

DONE

Adding Multiple choices questions to the assigned topic in My Test Bank


Are you sure you want to exit and discard this question?

Go back **Yes, Discard**


TEST BANK ×

Question | Computer Networking > True or False

Enter text here

Add Image  No file chosen

Answer

True 

+ Add Question



Discard

DONE

Adding TRUE/FALSE questions to the assigned topic in My Test Bank

1.1.10. Create Assessment Interface:

STEP



CREATE ASSESSMENT

STEP 1: Assessment Details

STEP 2: Adding Questions

STEP 3: Begin Assessment

- Select Room -

Assessment details

Title

Description (optional)

Exam duration (in minutes)

Minutes

Examination period

Exam Period

Type of Question

Multiple Choice

No. of Items

+ Add Type

☐ randomized item

☐ show answer after assessment

Discard

Proceed



Are you sure you want to exit and discard this assessment?

Go back

Yes, Discard

1.1.11. Create Assessment – Adding questions Interface:

STEP



CREATE ASSESSMENT

STEP 1: Assessment Details

STEP 2: Adding Questions

STEP 3: Begin Assessment

Computer Networking - Midterm

Multiple Choice

Question (1/25)

A user sends an HTTP request to a web server on a remote network. During escap...

Which Rapid Spanning Tree Protocol port state is a combination of standard 802.1D ...

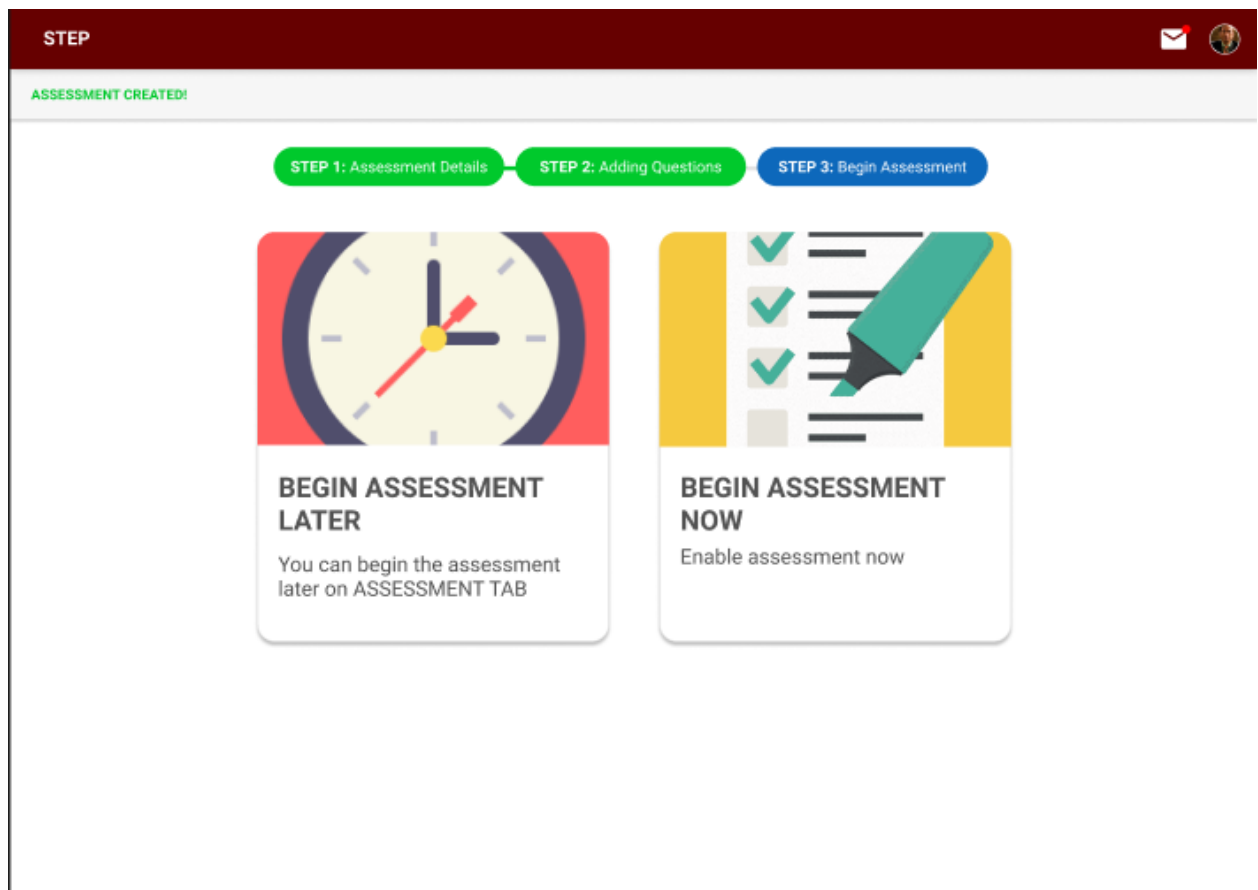
Host A receives a frame and discards it after determining it is corrupt. Which OSI layer ...

Which Rapid Spanning Tree Protocol port state is a combination of standard 802.1D ...

Back

Proceed

1.1.12. Create Assessment – Begin assessment Interface:



CHAPTER 6

SUMMARY

1. Developing environment and executing environment

#	Requirements	Completion	Note
1	Composing test questions	100%	
2	Creating assessment	100%	
3	Grading assessment	100%	
4	Exam questions look-up	100%	
5	Annual report	0%	Not included in the interface

2. Results

- **Reliability:** The system provides simple and effective exam-test questions storing, as well as providing users the ability to manage their own test bank, assessment, schedule and useful functions such as uploading documents, submitting works which will help users go through procedures faster to reduce time and labor.
- **Security:** The system decentralizes user level into 2 groups, with the superior group being the administrators with much more administrative authority over the system thus making it more safe and secure.

- Ease of use: The interface was designed with users in mind, providing simple but helpful, intuitive interface and it comes with sufficient, easy to use functions as well.
- The website can be run on almost all kinds of computers with a variety of platforms.

3. Cons

- Test questions can only be input by hands, not from a file.
- Missing the download function for the E-library
- Test questions stored in the database can't be automatically collected to form an exam for printing.
- Grading requires teachers/lecturers to do separately from the website before uploading the results
- The results need to be manually input

4. Development orientations

- Improve the interface for better navigation
- Automate functions to reduce manual tasks
- Provide users with more functions like print out a collection of test questions in a standardized form for use outside of the website, automatically valuate results input by users for assessment without having to manually input one by one