

TOPIC: EXAMS CREATING AND
MANAGING SYSTEM FOR
TEACHERS/LECTURERS

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CHAPTER I: OVERVIEW

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	QUESTION
<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			
Year:					
Total exams:			Total marks:		
#	Subject name	Number of exams	Total marks	Exam rate	Score rate
1					
2					

CHAPTER II: USE CASE MODEL

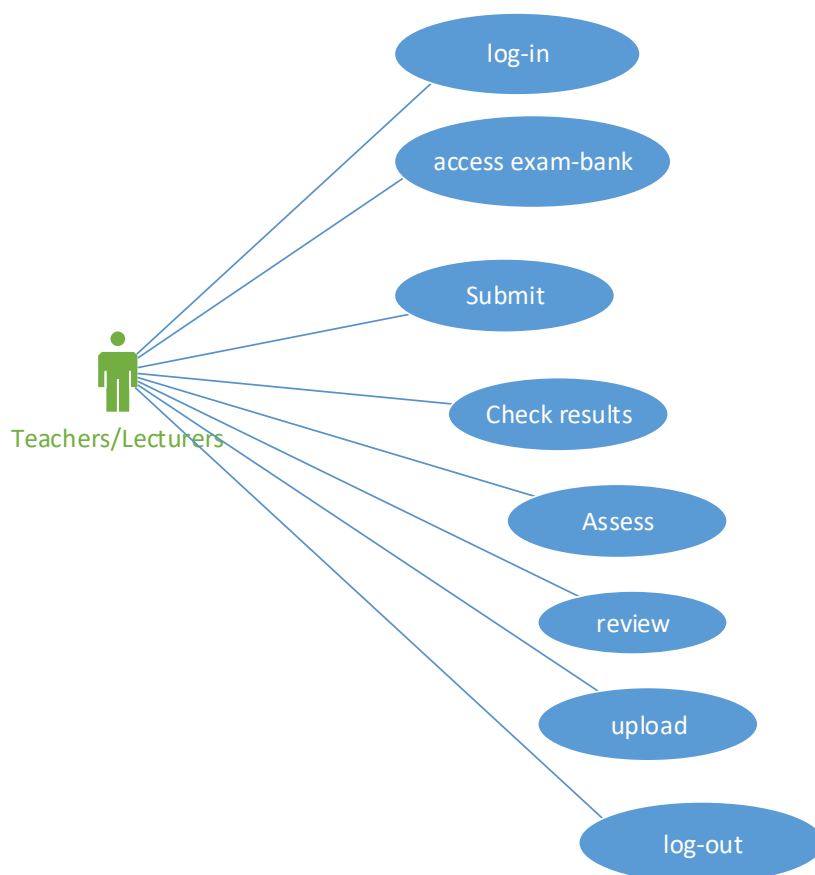
1. USE CASE MODEL

1.1. List of Actor

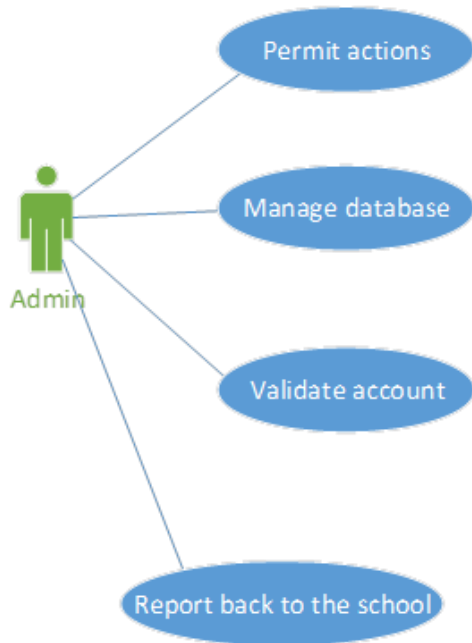
#	Actor	Meaning, Notes
1	Instructor	Responsible for creating questions and exam
2	Students	View, search the list of exam
3	Management	Manage data, add/remove accounts
4	Principal	The full access

1.2. Use case diagram

1.2.1. Use case for instructors



1.2.2. Use case for Admin



1.3.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	Upload	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

1.4.Use case Specification

1.4.1. 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	M The teacher has logged into the system
Following conditions	Logged into the system

1.4.2. 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	The teacher has logged into the system	
Following conditions		

1.4.3. 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 "My Tesk Bank" button	2. Show list of "My Test bank"
	3. Select the exam users want to see	4. Show the content of the exam
Alternative stream		
Preconditions	The teacher has logged into the system	
Following conditions		

1.4.4. Submit

Use case Submit		
Describe	Task and work submission	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. User clicks on "My Department"	2. Show 3 options - Assessment - Submission - Review
	3. Enter the Submission	4. The screen show the Submission form
	5.Choose the topic that user want to submit then "Submit"	6. Save the exam

Alternative stream	
Preconditions	The teacher has logged into the system
Following conditions	

1.4.5. 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. The screen will show the graph, and the percentage of students who meet and do not meet the standard
Alternative stream		
Preconditions	The teacher has logged into the system	
Following conditions		

1.4.6. Assess exams

Use case Assess exams		
Describe	Exams' grading and valuation	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. User clicks on "My Department"	2. Show 3 options - Assessment - Submission - Review
	3. Enter the Assessment	4. Show the list of topics
	5. Choose the topic	5. The screen will show the list and scores of the students who took the test
Alternative stream		
Preconditions	The teacher has logged into the system	
Following conditions		

1.4.7. Review

Use case Review		
Describe	Exams review	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. User clicks on "My Department"	2. Show 3 options - Assessment - Submission - Review
	3. Enter Review	4. Show the form of "Review"
	5. Select the exam	
	6. Enter user's notes	
	7. Click "Post"	8. The system will save the Review
Alternative stream		
Preconditions	The teacher has logged into the system	
Following conditions		

1.4.8. Upload

Use case Review		
Describe	Upload test questions to the E-bank	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Click the "My drive" bar	2. Show "My drive" form
	3. Click Upload	4. The system will display the topics the user wants to upload
	4. Choose the topic	5. The system will save the selected topics
Alternative stream		
Preconditions	The teacher has logged into the system	
Following conditions		

1.4.9. Permit actions

Use case Review		
Describe	Permit actions of the TEACHER/LECTURER actor	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Manage teacher activities	

	2. Handling tasks related to entering exam questions	
	3. Collect and handle the user's feedback	
Alternative stream		
Preconditions	The administrator has logged into the system	
Following conditions		

1.4.10. Manage database

Use case Review		
Describe	Database management	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Check and manage the database	
	2. Multi-user access control	
	3. Manage security and set rules	
Alternative stream		
Preconditions	The administrator has logged into the system	
Following conditions		

1.4.11. Validate account

Use case Review		
Describe	Account validation	
Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Identify and authenticate the user's identity	
	2. Ensure maximum safety and security for the account	
Alternative stream		
Preconditions	The administrator has logged into the system	
Following conditions		

1.4.12. Report

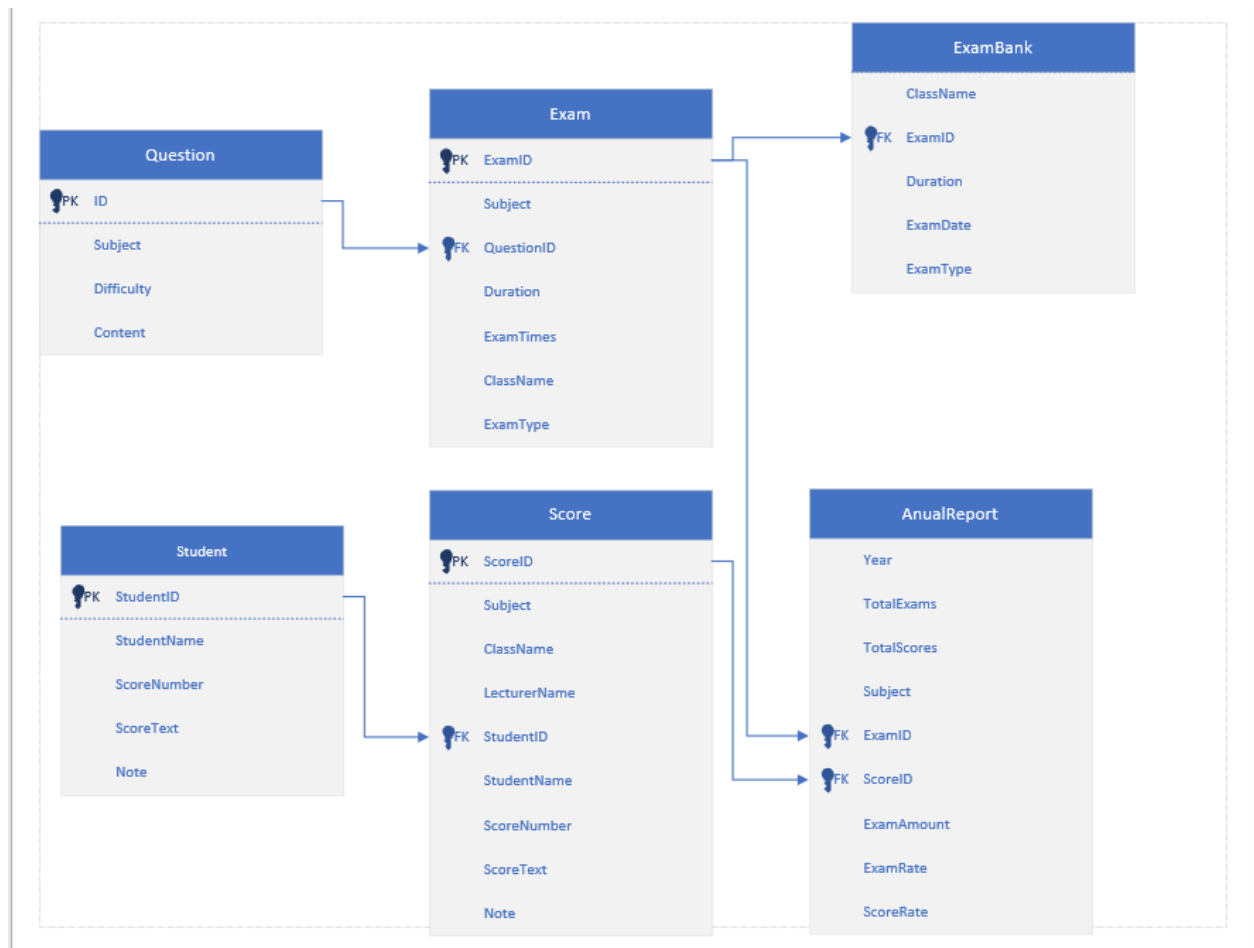
Use case Review	
Describe	Report details back to the school

Agent	Lecturers	
Main stream	Agent's behavior	System's behavior
	1. Summarizing the data	
	2. Make a report to the principal	
Alternative stream		
Preconditions	The administrator has logged into the system	
Following conditions		

CHAPTER III: ANALYSIS

1. CLASS DIAGRAM

1.1. Analysis level class diagram



1.2. List of feature classes

#	Class name
1	Question
2	Exam
3	Exam Warehouse
4	Scores

5	Annual Report
6	Student

1.3.Relationship List

#	Relationship name
1	Question_ Exam
2	Exams_ Exam Warehouse
3	Student_ Score
4	Scores_ Annual Report
5	Exam_ Annual Report

1.4.Description of each feature class

1.4.1. Questions

Describe	Attributes and functions	Explain
Save question information	ID	Question ID
	Subject	Subject title
	Difficulty	Level
	Content	Content questions

1.4.2. Exams

Describe	Attributes and functions	Explain
Save exam information	ExamID	Exam ID
	Subject	Subject title
	QuestionID	Question ID
	Duration	Exam duration
	ExamTimes	Times
	ClassName	Class name
	ExamType	Exam Type

1.4.3. Exam Warehouse

Describe	Attributes and functions	Explain
Save exam warehouse information	ClassName	Class name
	ExamID	Exam ID
	Duration	Exam duration
	ExamDate	Exam date
	ExamType	Exam Type

1.4.4. Students

Describe	Attributes and functions	Explain
Save student information	StudentID	Student ID
	StudentName	Student's name
	ScoreNumber	Scores
	ScoreText	Letter point
	Note	Notes

1.4.5. Scores

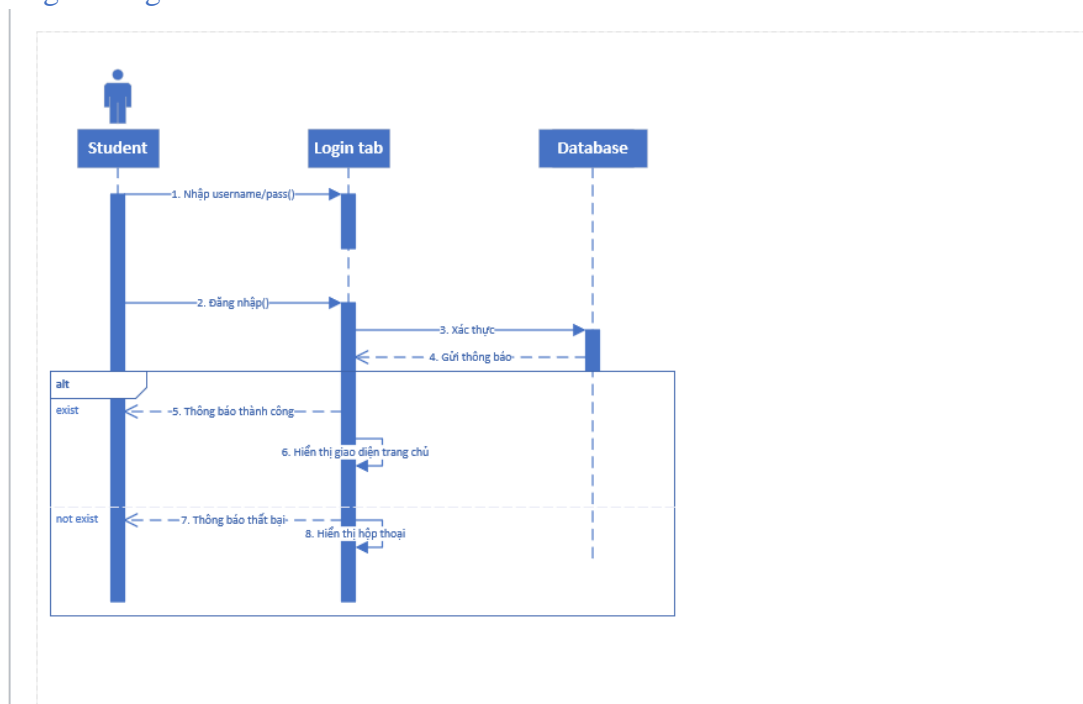
Describe	Attributes and functions	Explain
Save score information	ScoreID	Score ID
	Subject	Subject title
	ClassName	Class name
	LecturerName	Instructor's name
	StudentID	Student ID
	StudentName	Student's name
	ScoreNumber	Scores
	ScoreText	Letter point
	Note	Notes

1.4.6. Annual report

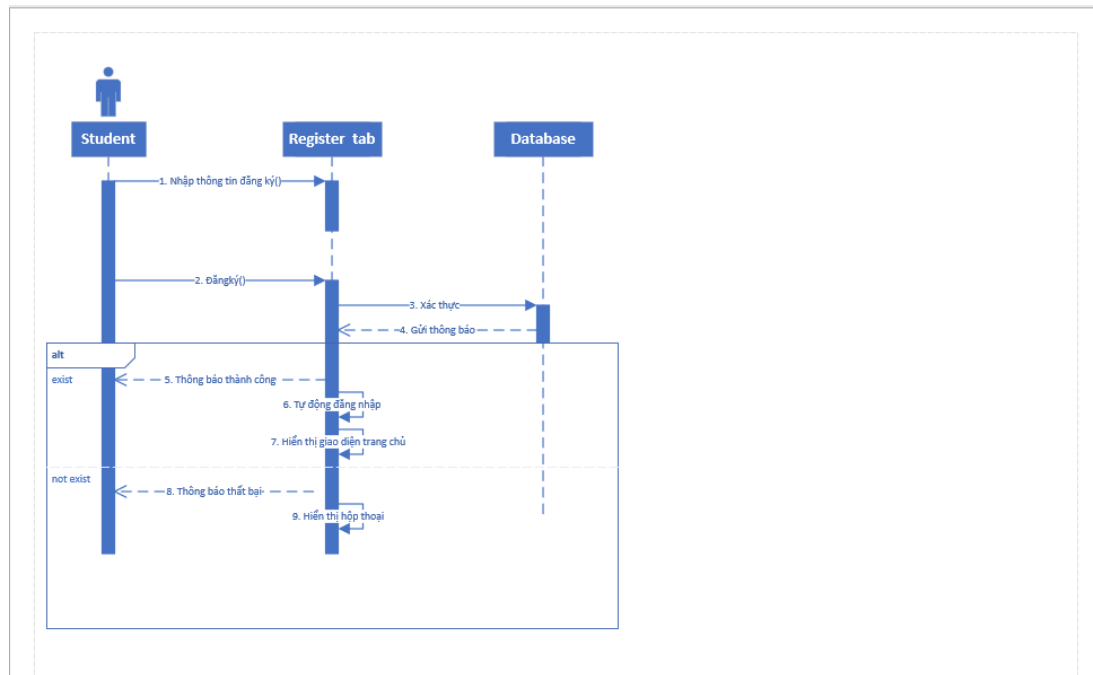
Describe	Attributes and functions	Explain
Save annual report information	Year	Year
	TotalExams	Total number of exams
	TotalScore	Total marks
	Subject	Subject title
	ExamID	Exam ID
	ScoreID	Score ID
	ExamAmount	Number of exams
	ExamRate	Exam rate
	ScoreRate	Score rate

2. SEQUENCE DIAGRAM

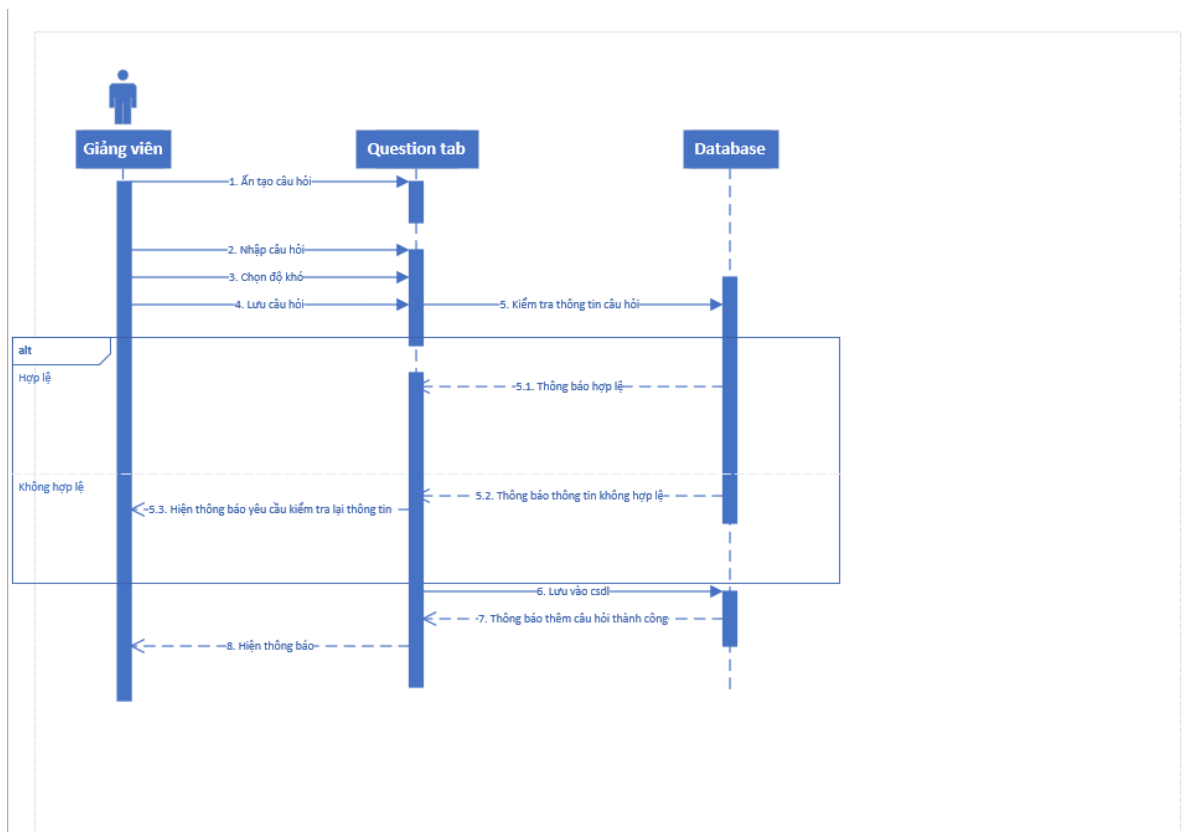
2.1.Login / Log Out



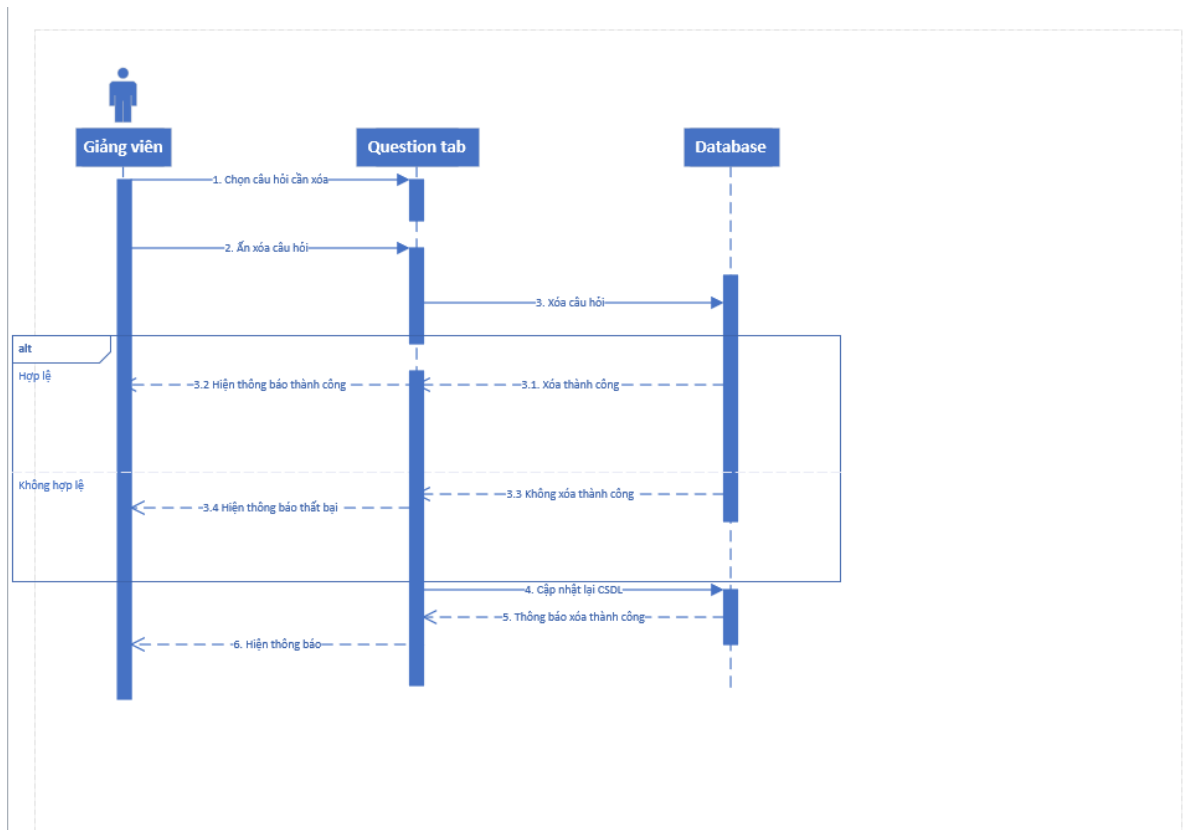
2.2.Compose a question



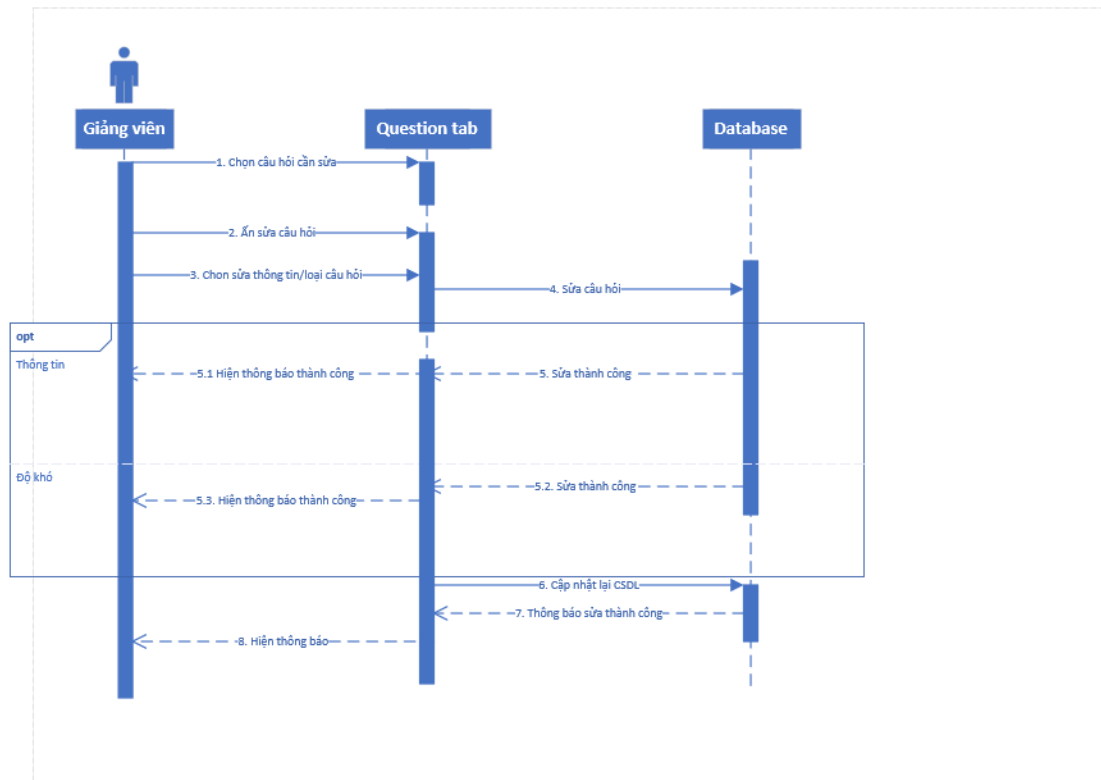
2.2.1. Add questions



2.2.2. Delete question

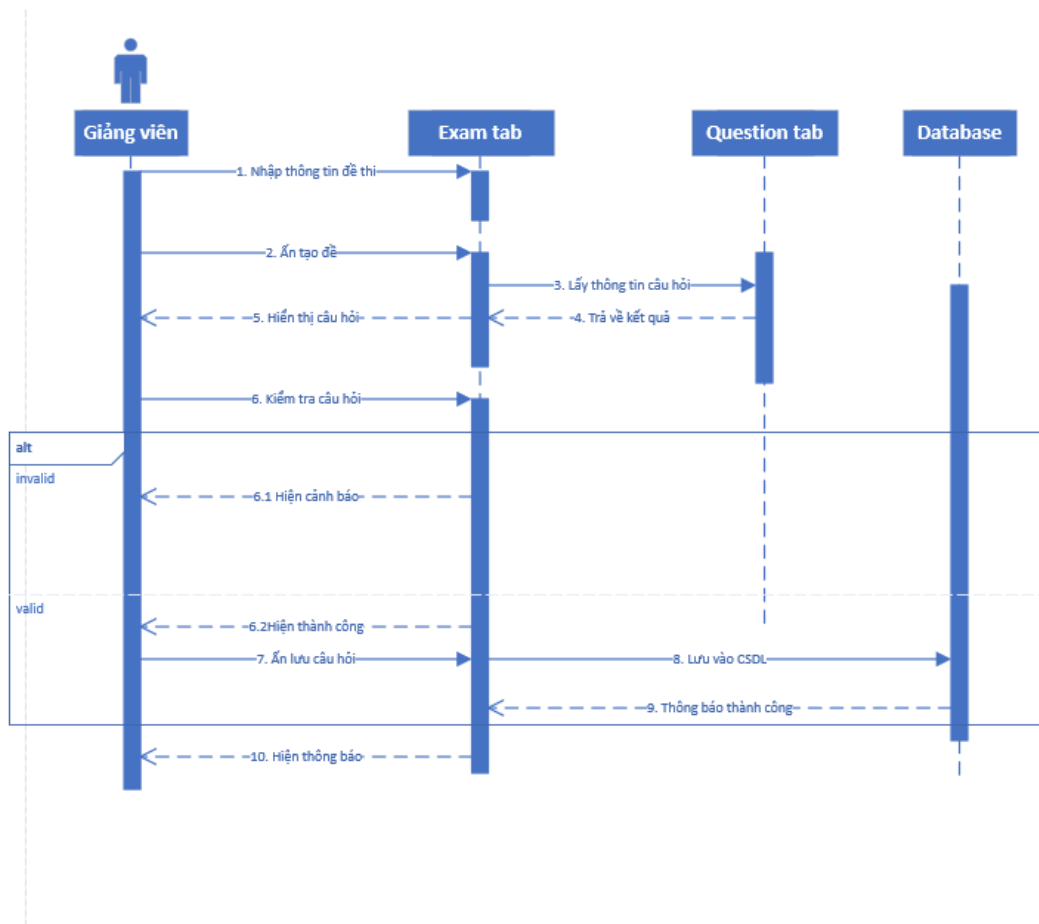


2.2.3. Fix question

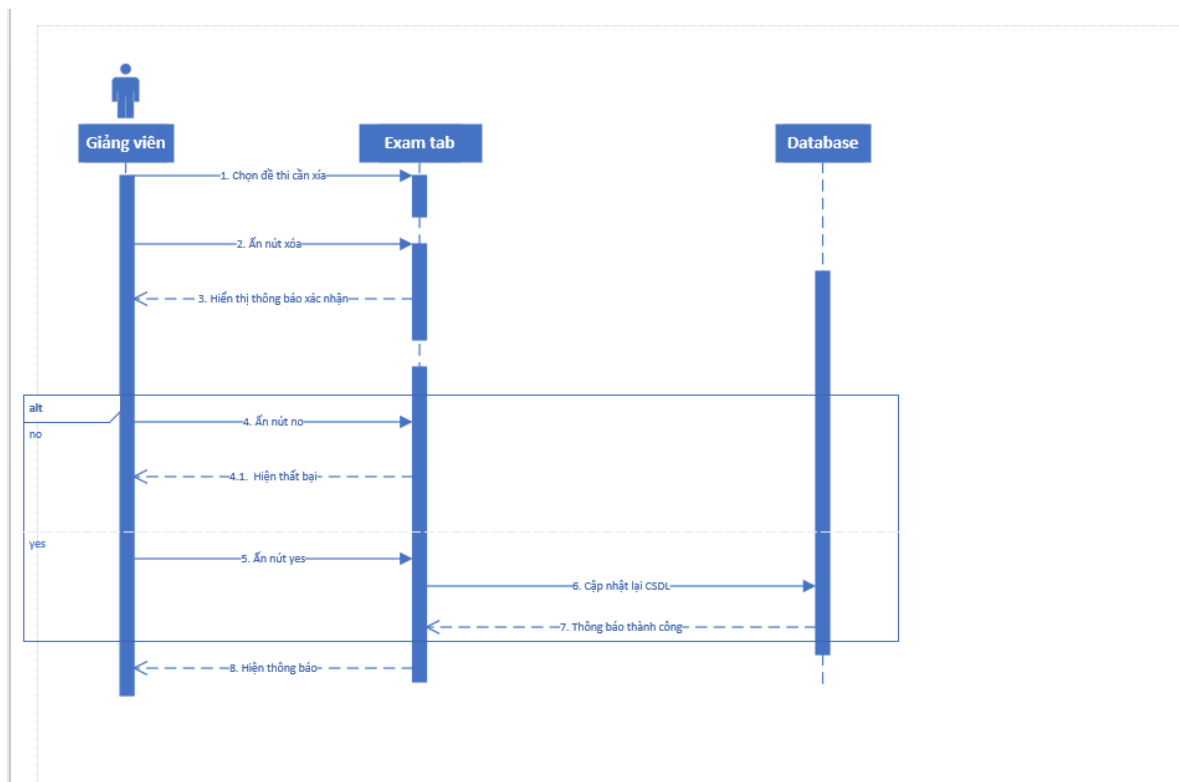


3. *PREPARE EXAMS*

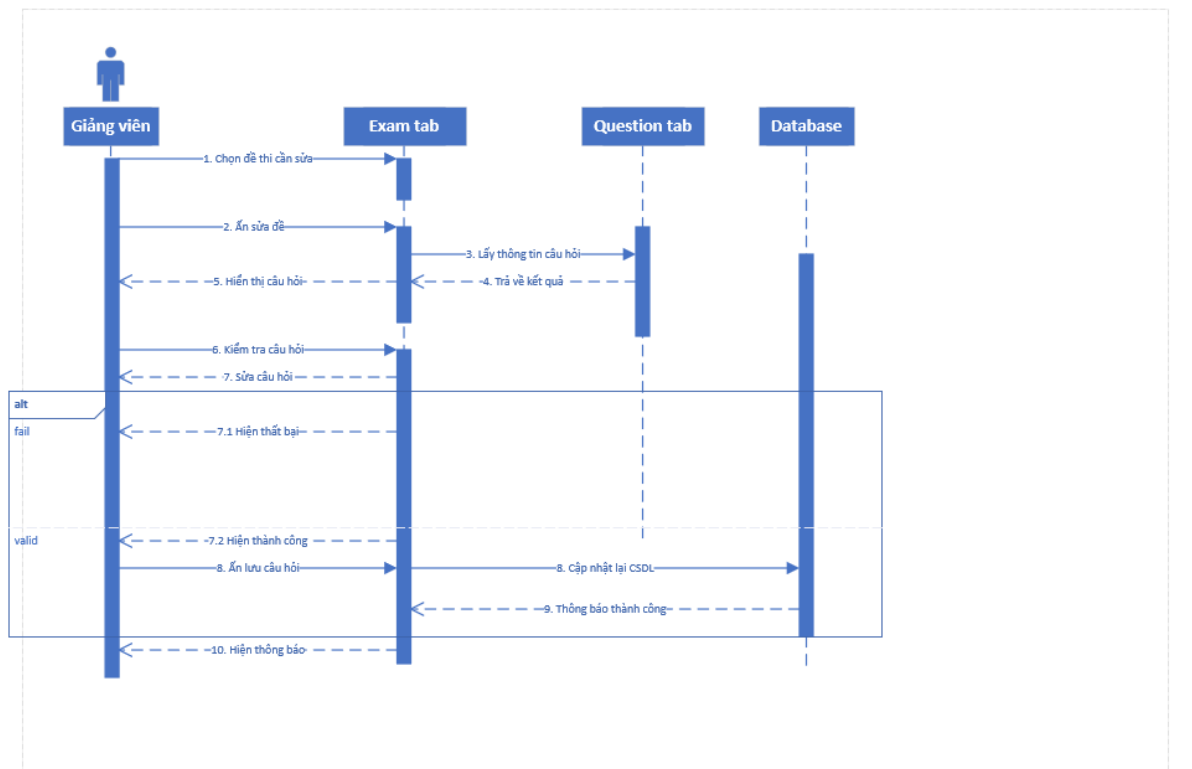
3.1. Add exams



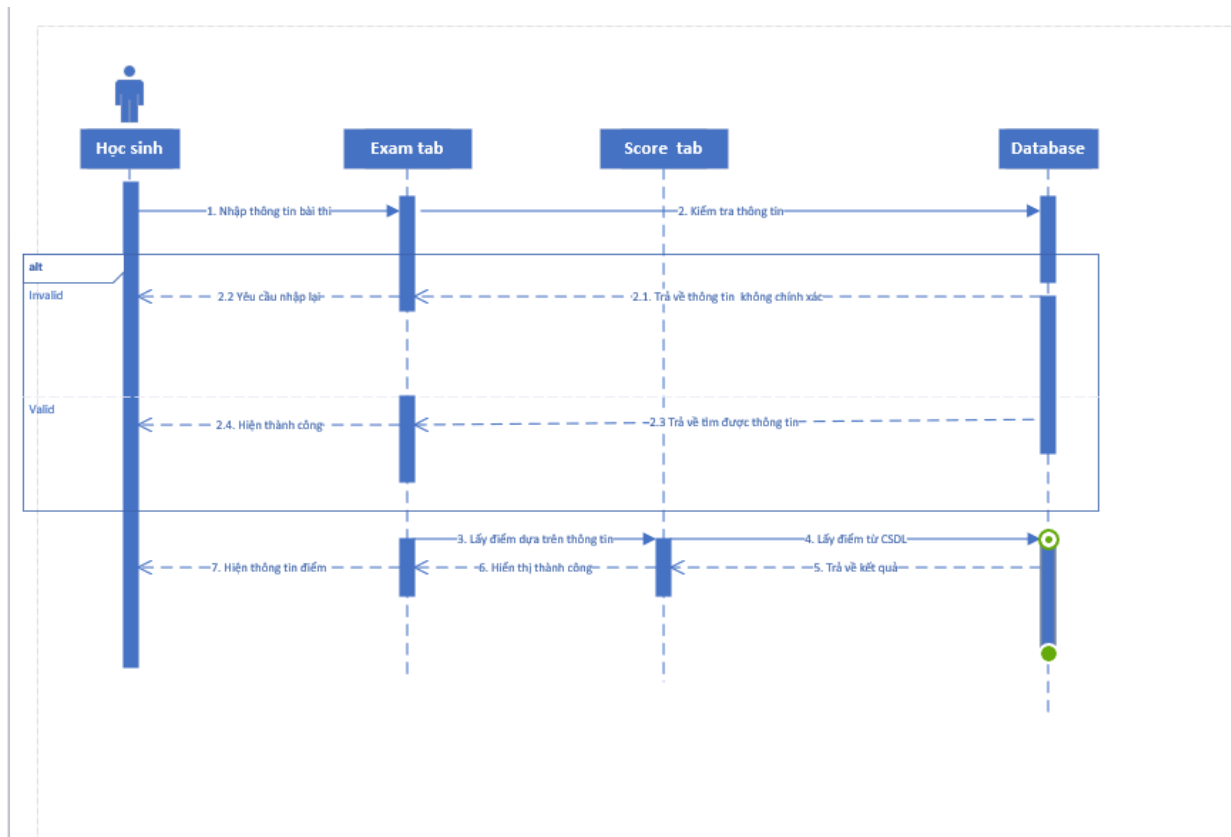
3.2.Delete exams



3.3. Fix exams

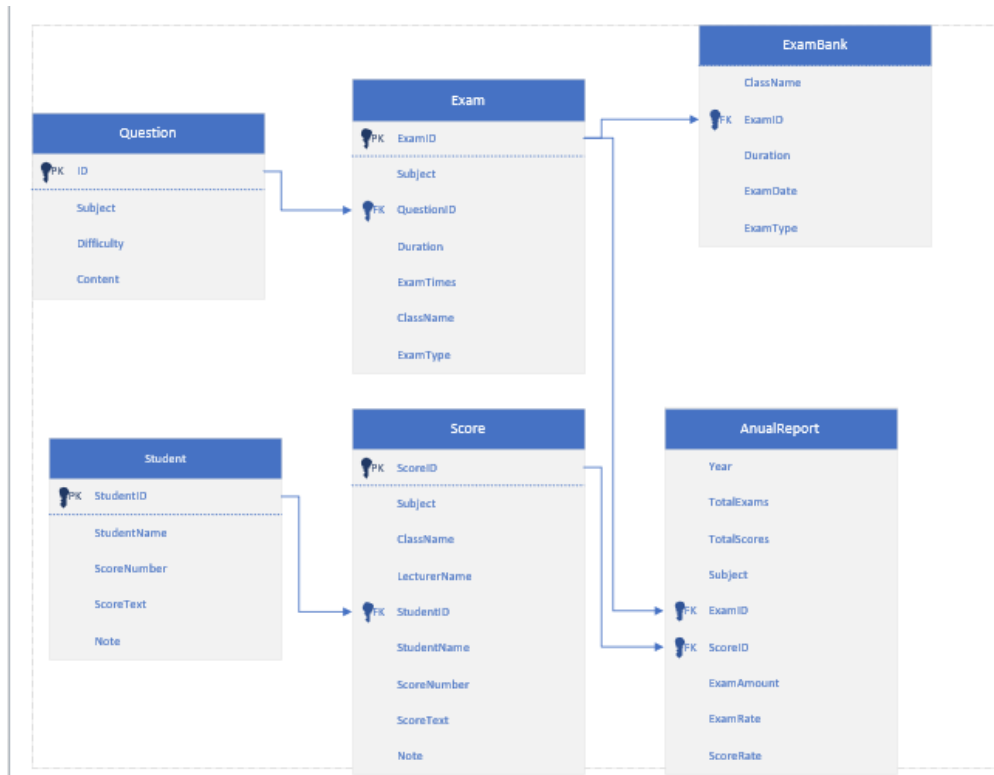


3.4.Exam Result



CHAPTER IV: DATABASE DESIGN

1. LOGIC DIAGRAM



2. DETAILED DESCRIPTION OF THE COMPONENTS IN THE LOGIC DIAGRAM

#	Table name	Explain
1	Question	Question information storage
2	Exam	Store exam information
3	ExamBank	Store information about exam questions
4	Student	Student information storage
5	Score	Store score information
6	AnnualReport	Annual report card

2.1. Question table

#	Column name	Datatypes	Constraint	Explain
1	ID	Varchar(255)	Main key	Question ID
2	Subject	Varchar(255)		Theme
3	Difficulty	Varchar(255)		Level
4	Content	Varchar(255)		Content Questions

2.2. Exam table

#	Column name	Datatypes	Constraint	Explain
1	ExamID	Varchar(255)	Main key	Exam ID
2	Subject	Varchar(255)		Theme

3	QuestionID	Varchar(255)	Foreign key	Question ID
4	Duration	Int		Exam duration
5	ExamTimes	Int		Times
6	ClassName	Varchar(255)		Class name
7	ExamType	Varchar(255)		Exam type

2.3. Exam warehouse table

#	Column name	Datatypes	Constraint	Explain
1	ClassName	Varchar(255)		Class name
2	ExamID	Varchar(255)	Foreign key	Exam ID
3	Duration	int		Exam duration
4	ExamDate	Varchar(255)		Exam date
5	ExamType	Varchar(255)		Exam type

2.4. Student table

#	Column name	Datatypes	Constraint	Explain
1	StudentID	Varchar(255)	Main key	Student ID
2	StudentName	Varchar(255)		Student's name
3	ScoreNumber	int		Scores
4	ScoreText	Varchar(255)		Letter point
5	Note	Varchar(255)		Notes

2.5. Scores table

#	Column name	Datatypes	Constraint	Explain
1	ScoreID	Varchar(255)	Main key	Score ID
2	Subject	Varchar(255)		Theme
3	ClassName	Varchar(255)		Class name
4	LecturerName	Varchar(255)		Instructor's name
5	StudentID	Varchar(255)	Foreign key	Student ID
6	StudentName	Varchar(255)		Student's name
7	ScoreNumber	int		Scores
8	ScoreText	Varchar(255)		Letter point
9	Note	Varchar(255)		Notes

2.6. Annual report table

#	Column name	Datatypes	Constraint	Explain
1	Year	int		Year
2	TotalExams	int		Total number of exams
3	TotalScores	int		Total score
4	Subject	Varchar(255)		Theme
5	ExamID	Varchar(255)	Foreign key	Exam ID
6	ScoreID	Varchar(255)	Foreign key	Score ID
7	ExamAmount	int		Number of exams

8	ExamRate	double		Exam rate
9	ScoreRate	double		Score rate

CHAPTER V: INTERFACE DESIGN

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

2. DETAILED DESCRIPTION OF EACH PAGE

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

2.2. Log-in screen

Interface:

University of Information Technology



Please log in to continue to the dashboard



Email:

Password:

Log in

2.3.Assessment page Interface:

STEP

ASSESSMENTS

Back

ACTIVE

Midterm - Computer Science 1

CS1113.W11.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...

MSIS3303.M22.CTTT

October 26

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

2.4.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

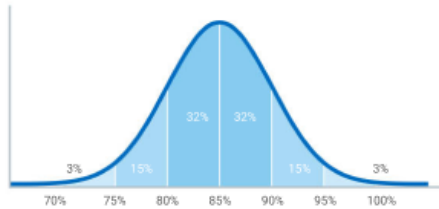
UPLOAD

2.5.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

2.6.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

2.7.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

✎

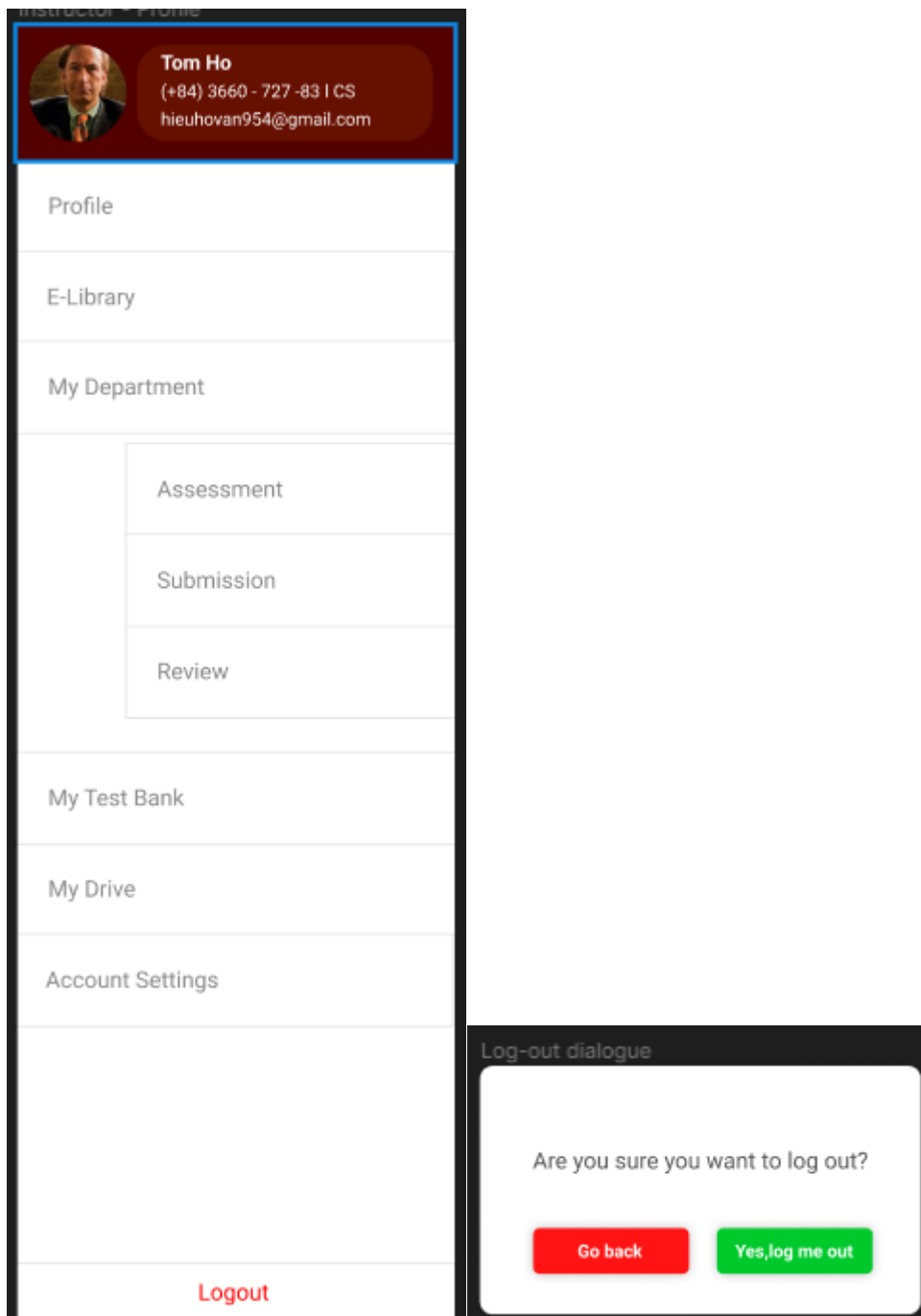
📞

(505) 503-4455

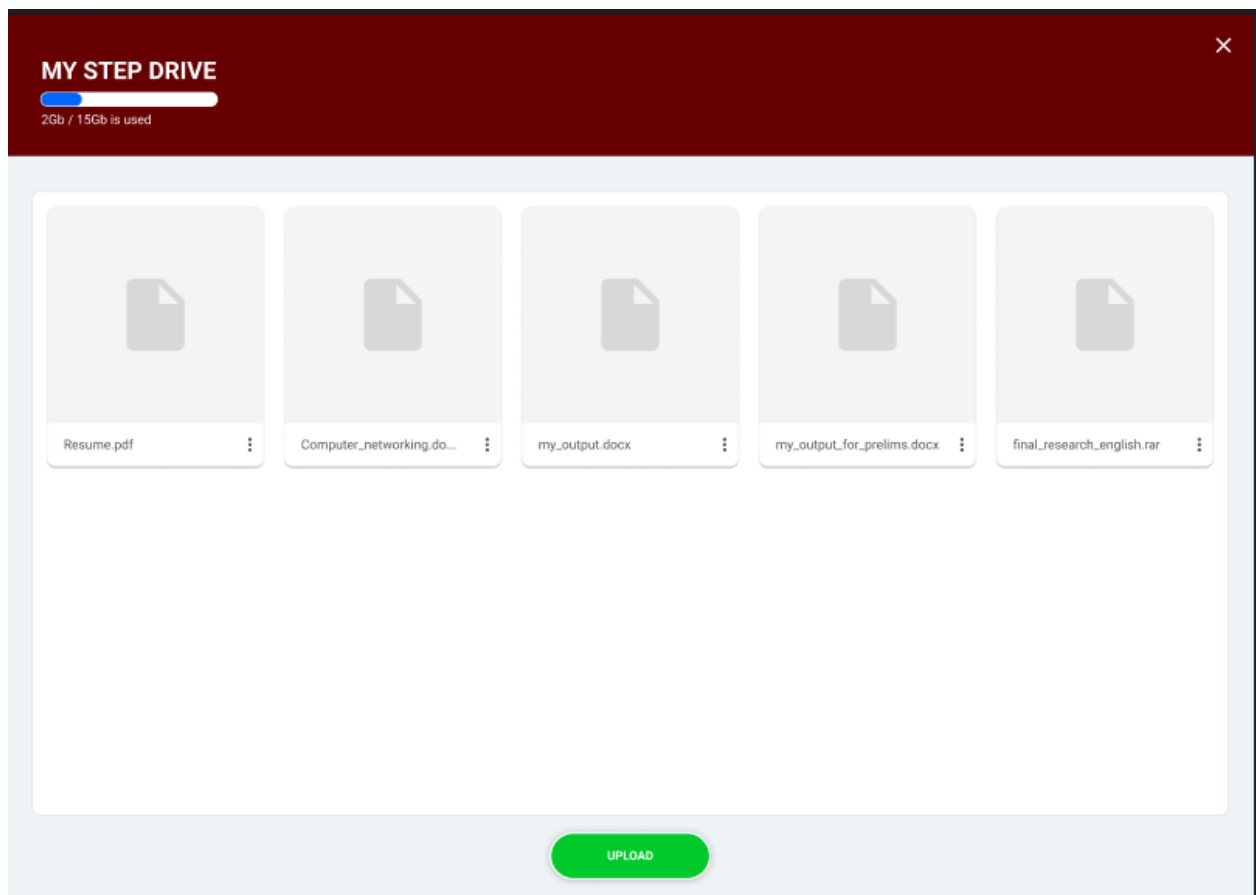
✎

2.8.Sub-profile and log-out dialogue

Interface:

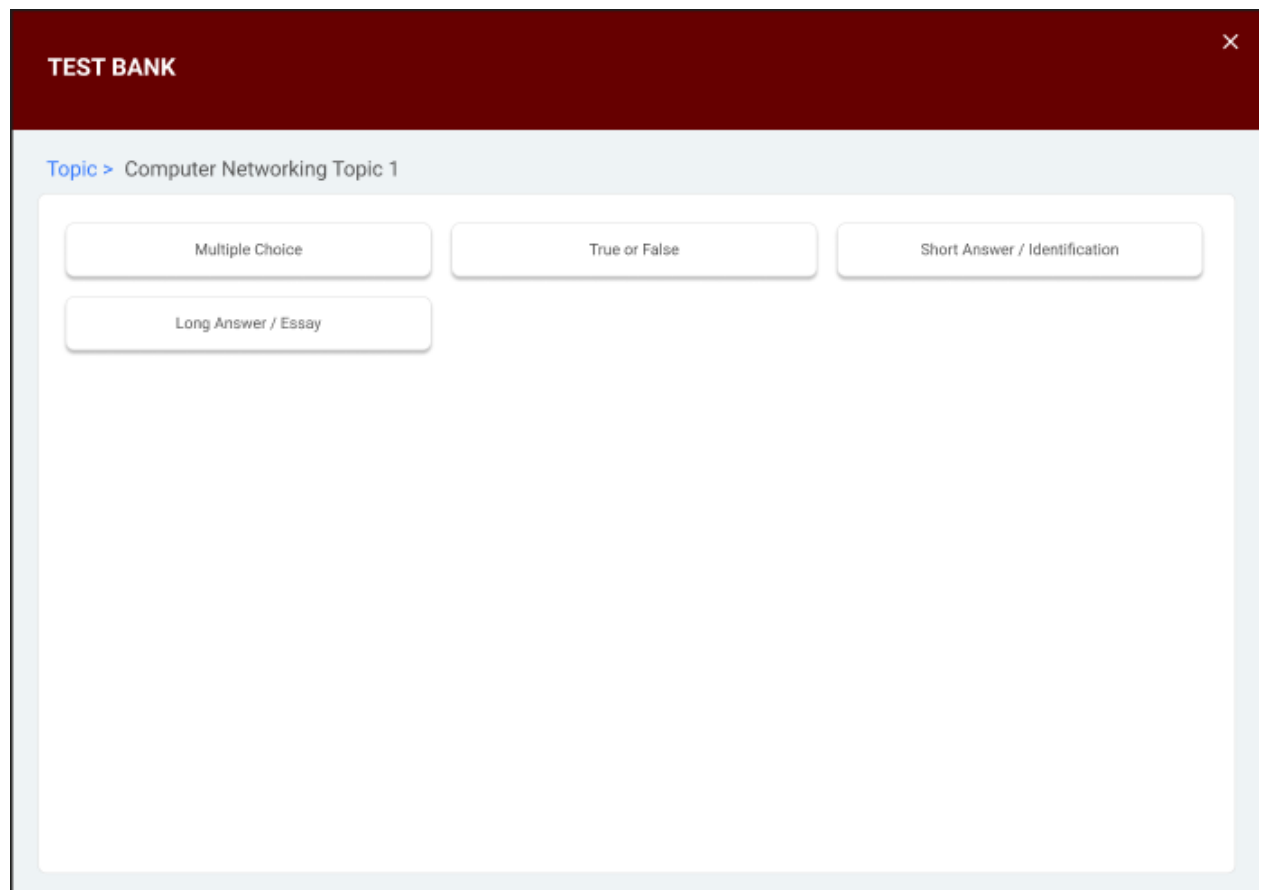


2.9. Drive Interface:

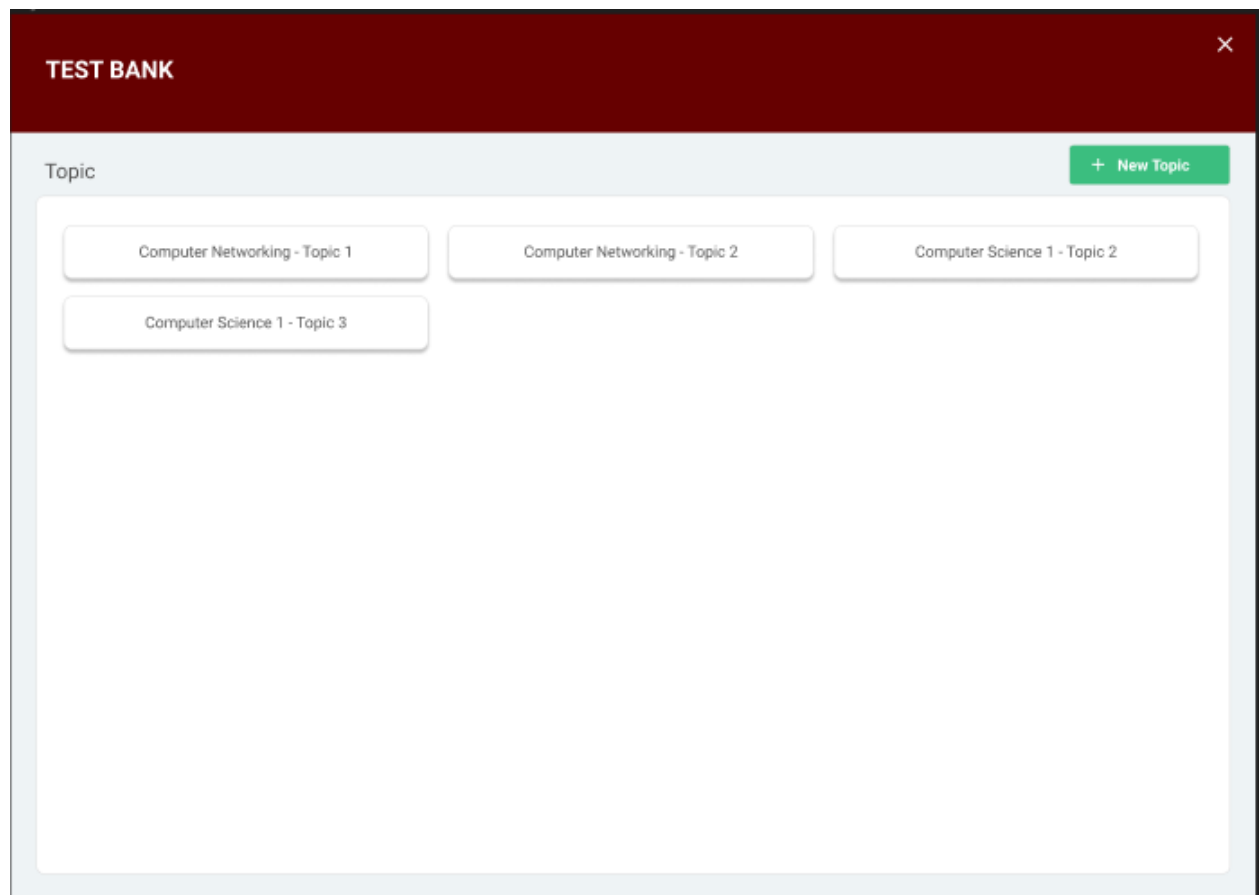


2.10. My Test Bank

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

2.11. 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

2.12. 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 ...

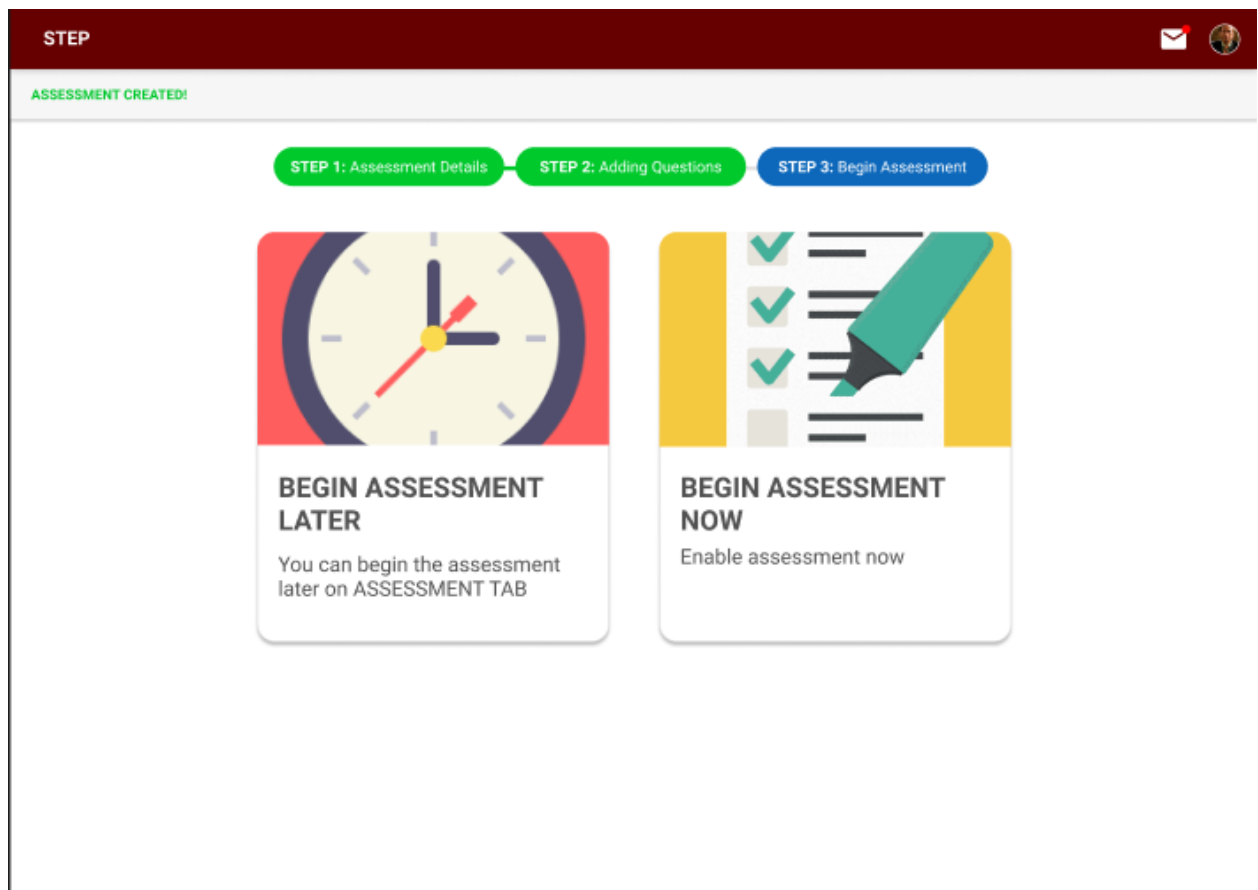
Host A receives a frame and discards it after determining it is corrupt. Which OSI layer ...

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

Back

Proceed

2.13. Create Assessment – Begin assessment Interface:



CHAPTER VI: 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