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Project Document

PROJECT NAME: QUESTION LEAKAGE PROTECTION

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DECLARATION

It hereby declare that this Project has done by me under the supervision of **Sheikh Shah Mohammad Motiur Rahman, Lecturer, Department of Software Engineering, Daffodil International University**. It also declare that neither this Project nor any part of this has been submitted elsewhere for award of any degree.



22.12.2018

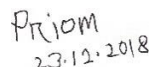
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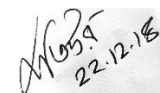
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The project exposed us to the latest technology in the area of web application platform development. Thus, this project successfully demonstrated an online based “question leakage protection system "which prevents the question leakage of public examination of Bangladesh. We faced many challenges and problem during the development time. It was a nice learning curve to work on online web application development. We are grateful to the Allah, the Almighty, the Merciful without whose patronage and blessing this project would not been successfully completed. We also acknowledged with great thanks to our project supervisor “SHEIKH SHAH MOHAMMAD MOTIUR RAHAMAN” for his most valuable suggestions & cooperation’s.

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Chapter 1

Introduction

1.1 Project Overview

We are trying to make an online system for this question leakage problem. Which will maintain by our government through our education board. Online Question Leakage Protection System have three different types of users from creating a question to supply the question to the exam hall. The Core admin, Teachers, and Exam controllers are the three types of users. Teacher will upload their specific question in time when the Core admin post for that question, question subject and topic. That post will notify every teachers who are the members. After collecting all this questions system will randomly choice and generate a full 100 marks question. Only the Core admin can maintain this generation in technically. The question will send to the Exam controller right before of the exam time. Then Exam controller will print or view the question in the exam hall using multimedia.

1.2 Project Purpose

1.2.1 Background

Today in Bangladesh people are suffering in a great problem called Question Leakage in public examinations. According to the Government of Bangladesh, the first question paper leak from any public examination happened in 1979 in S.S.C examination. The leaks have become more frequent since 2014. Question papers of other public examinations such as P.S.C, J.S.C, and H.S.C have been leaked in a regular basis. There have also been multiple university and medical entrance exam question paper leaks.

The leaks of question paper are increasing because of bad moral and manual process of taking exam.

We already have been seen many kinds of problems are created in public exams. Exams are stopped right before of the exams day. Many TV channels are make their news and programs about this problems. Questions are found in social media right the before of the exam starts or even before one day. However our government side some times are disagree about this issue. But if we see the newspapers, if we see the social media before exam, or if we ask about this problem any person we can found a great problem has been created in our country already. Let's see some important persons, photos or social site what are they saying about this question leakage problem in Bangladesh.



Figure 1.2.1.1: Angered by the continuous leaks of question papers of public tests, President Md Abdul Hamid has said those involved in the process of destroying the young generations should be "executed by the firing squad".



Figure 1.2.1.2: Profe Dr Muhammad Zafar Iqbal has said 'education in Bangladesh will lose its value if the current trend of question leak continues'.

There are lot more of them we have. So we can realize that there is something occurring in our country during public exam period.

1.2.2 Benefits & Beneficiaries

This system is an online system which will collect questions in time. Less involve of people. Only few persons are maintain this system. One time cost to establish this system. So this will save lots of money. There this no way to see the question before the appropriate time. Full system and process are computerized. So if dishonest person want to do any harm they can't. Our government wants make out country more digitalized. So that can be a great system that digitalis our country through education site. Public examination cost will also reduce.

Our government can make our system digital. Students can give their examination without questions leakage problems. Genuine merit will be found easily through this system. Teachers can easily submit their questions from home.

1.2.3 Goals

Goals of this system are stop the questions leakage in the public examination. Also digitalized our public examination system. Reduce public examination cost.

1.3 Stakeholders

This system is developed for our government. So in this primary level there are 3types of stakeholders are core admin, teachers and exam controllers who will work under government.

1.4 Project Schedule

1.4.1 Gantt Chart

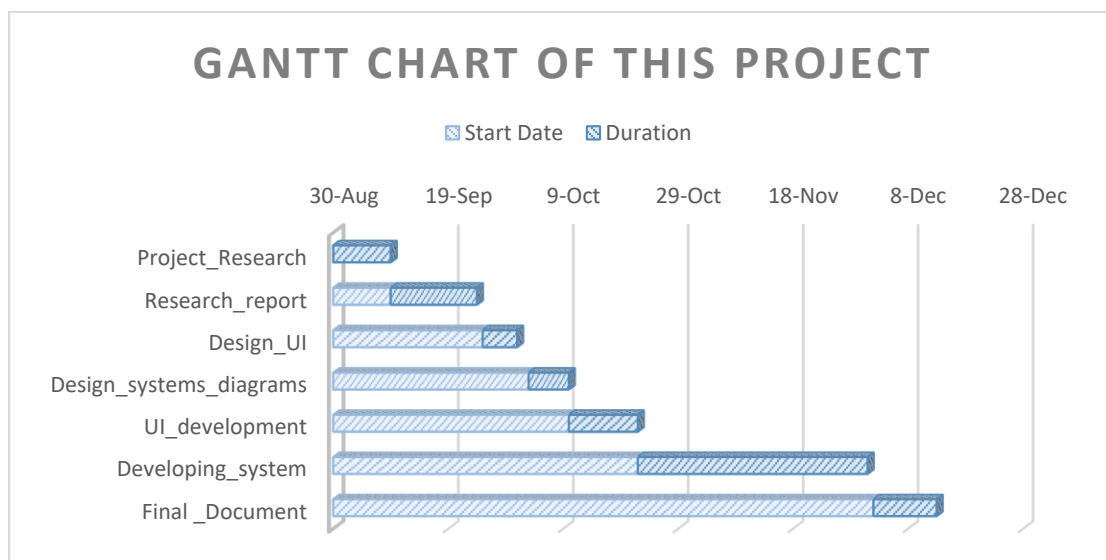


Figure 1.4.1: Gantt chart

1.4.2 Release Plan/Milestone

This project is now developed for only S.S.C examination. We will update this system for all kinds of public examinations. Also lots of security will include in this system.

Chapter 2

Software Requirement Specification

2.1 Functional Requirements

Some functional requirements are given below:

- a. User registration for every kinds of users.
- b. User login for every kinds of users.
- c. Login and registration validations.
- d. Create announcement.
- e. Upload questions.
- f. Generate a 100 marks questions for a specific examination.
- g. Generate a 100 marks questions for a specific time.
- h. Generate a 100 marks questions for a specific subject.
- i. Save generated questions.
- j. Send generated questions to the exam controller.
- k. Print, download or show the question generated questions paper.
- l. User logout for all kinds of users.

2.2 Data Requirements

Some data requirements are given below:

- a. User name, password, phone number, email address, address, user type are require for user registration.
- b. User name and password for login into the system.
- c. Question template for every generated questions.
- d. Question requirement for every subject like for Bangla 1st paper question need 5 types of data are passage, gean mulok, onudhabon mulok, proyog mulok, uccotor dokkota mukol.

2.3 Dependability Requirements

2.3.1 Reliability Requirements

The system will be able to generate questions for every public examinations by its own.

2.4 Security Requirements

2.4.1 Access Requirement

Table 2.4.1: Table of Access Requirements

Feature	Requirements
Required Processor	1 gigahertz (Ghz) or faster x86- or x64-bit Processor with SSE2 instruction set.
Required Operating System	Windows 8, Windows 7, Windows Server 2008 R2, Windows Server 2012, Linux or IOS.
Required Memory	1 GB RAM (32 bit); 2 GB RAM (64 bit)
Required Hard Disk Space	3.0 GB available
Required Display	Graphics hardware acceleration requires a DirectX10 graphics card and 1024 x 576 resolution
.NET version	3.5, 4.0, or 4.5
Required Browser	Microsoft Internet Explorer 8, 9, or 10; Mozilla Firefox 10.x or a later version; or Google Chrome 17.x.
Multi-touch	A touch-enabled device is required to use any Multi-touch functionality. However, all features and functionality are always available by using a keyboard, mouse, Or other standard or accessible input device. Note that new touch features are optimized for use With Windows 8.
Additional requirements and considerations	A touch-enabled device is required to use any multi-touch functionality. However, all features and functionality are always available by using a keyboard, mouse, or other standard or Accessible input device. Note that new touch features are optimized for use with Windows 8.

2.5 Usability and Human-Interaction Requirements

The system is billed with very simple user interface. So this system is very user friendly. User can familiar to the system

Chapter 3

System Analysis

3.1 Use Case Diagram

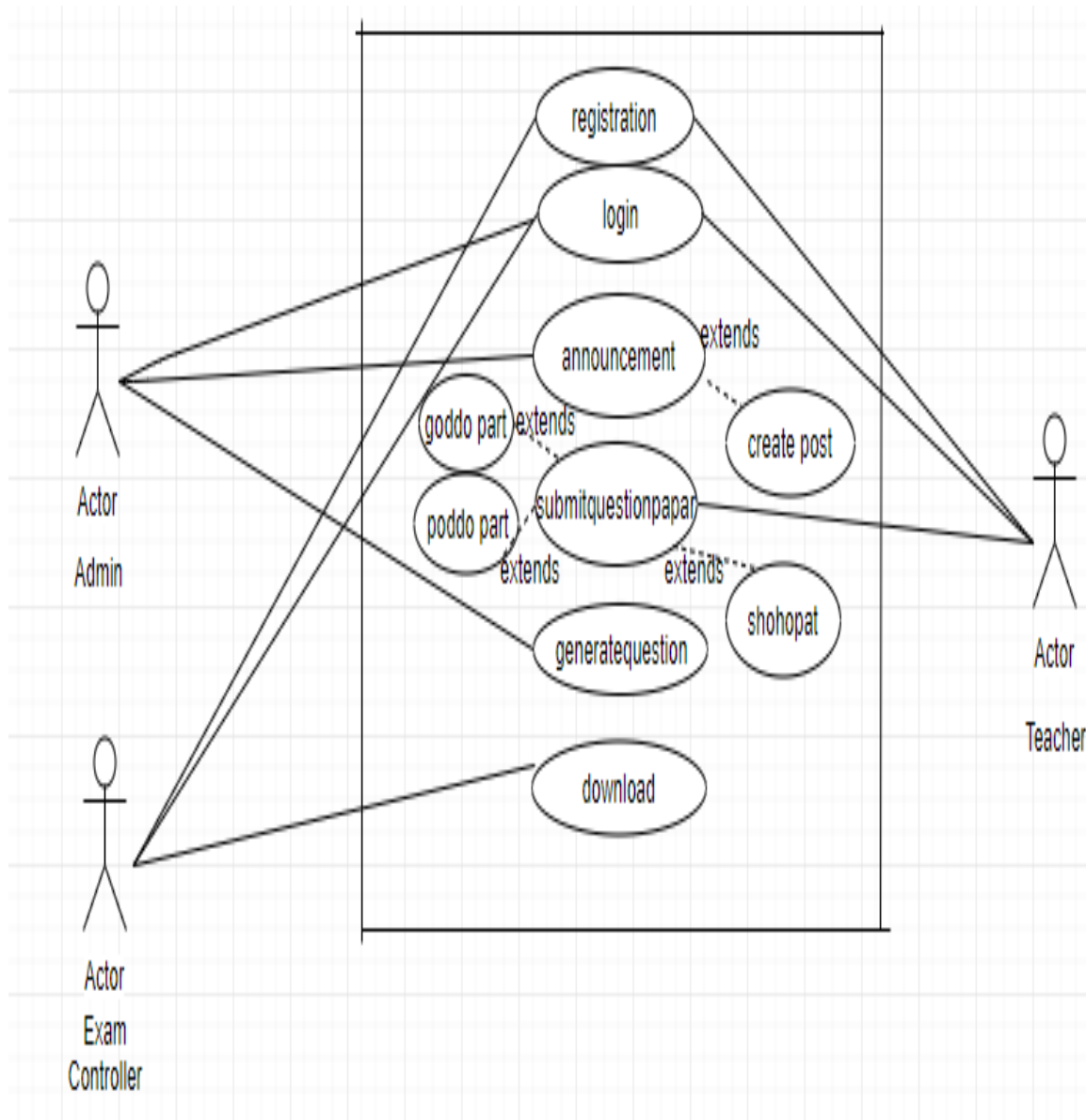


Figure: 3.1: Use Case Diagram

3.2 Use Case Description

Table3.2.1: Use Case Description (Registration)

Use case name:	Registration	
Scenario:	Users request for registration access the system	
Brief description:	Teacher and Exam controller must complete their registration according to the proper instruction by using their username, password, nid, emai, tel, address for according this system.	
Actors:	Exam controller, teacher.	
Precondition:	Exam controller, teacher must be valid.	
Post condition:		
Flow of control:		
Actor	System	
1. User brows to the website 2. User fill the registration form 3. User press the submit button	1.1 Show registration page 2.1Taking input the data to the database. 3.1 Show the user home page.	
Exception Condition: 3.1 If all fields are not fill correctly then show registration failed. Fill the form carefully.		

Table3.2.2: Use Case Description (Login)

Use case name:	Login
Scenario:	Users request for login access the system
Brief description:	After successful registration teacher and exam controller they can entry the system by logging by giving their appropriate username and password they will be permitted for accessing this system. Only admin log in this system without any registration. Admin's username and password will be provided by the system administration.
Actors:	Admin, Exam controller, teacher.
Precondition:	Admin, Exam controller, teacher must be valid.
Post condition:	
Flow of control:	
Actor	System
1. User brows to the website 2. User Insert username and password 3. User press the submit button	1.1 Show registration page 2.1Chack input data with the database. 3.1 Show the user home page.
Exception Condition: 3.1 If all fields are not fill correctly then show login failed. Fill the form carefully.	

Table3.2.3: Use Case Description (Announcement)

Use case name:	Announcement	
Scenario:	Users request to the system for announcement.	
Brief description:	After successful login admin will create an announcement to every teacher who are already registered under the system to submit their individually question paper to the question bank before the deadline.	
Actors:	Admin	
Precondition:	Admin must be valid.	
Post condition:		
Flow of control:		
Actor	System	
1. User brows to the website 2. User Insert username and password 3. User press the submit button 4. Create announcement	1.1 Show registration page 2.1Chack input data with the database. 3.1 Show the user home page. 4.1 Show the announcement page.	
Exception Condition: 3.2 If all fields are not fill correctly then show registration failed. Fill the form carefully.		

Table3.2.4: Use Case Description (Submit Questions)

Use case name:	Submit Questions	
Scenario:	Users request to the system for submit question	
Brief description:	According to admin’s announcement every teacher will submit their individually question paper from their desired chapter and subject with proper time and deadline. Suppose some teacher’s choose bangle subject to upload theirs question. In bangle there are three part including goddo, poddo and sohopath .Each teacher can choice any one module and upload only two question from this desired chapter.	
Actors:	Teacher.	
Precondition:	Teacher must be valid.	
Post condition:		
Flow of control:		
Actor	System	
1. User brows to the website 2. User fill the registration form 3. User press the submit button 4. Submit Question	1.1 Show registration page 2.1Taking input the data to the database. 3.1 Show the user home page. 4.1 Show submit question page.	
Exception Condition: 3.1 If all fields are not fill correctly then show registration failed. Fill the form carefully. 4.2 If all fields are not filled then show question submit failed.		

Table3.2.5: Use Case Description (Download)

Use case name:	Download	
Scenario:	Users request to the system for download the question.	
Brief description:	After generating question admin will send questions to the every exam controller to the every exam center. The exam controller download this question paper before starting the examination.	
Actors:	Exam controller	
Precondition:	Exam controller must be valid.	
Post condition:		
Flow of control:		
Actor	System	
1. User brows to the website 2. User Insert username and password 3. User press the submit button 4. Download question	1.1 Show registration page 2.1Chack input data with the database. 3.1 Show the user home page. .4.1 Show the download page.	
Exception Condition: 3.1 If all fields are not fill correctly then show registration failed. Fill the form carefully.		

Table3.2.6: Use Case Description (Generate Question)

Use case name:	Generate Question	
Scenario:	Users request for registration access the system	
Brief description:	when all questions will be uploaded by all registered techers. Before starting the exam admin will generate question papar. Generally admin will maintain this system. The system will randomly generate questions a set of questions by using mechanism of software algorithm.	
Actors:	Admin	
Precondition:	Admin must be valid.	
Post condition:		
Flow of control:		
Actor	System	
1. User brows to the website 2. User Insert username and password 3. User press the submit button	1.1 Show registration page 2.1Chack input data with the database. 3.1 Show the user home page.	
Exception Condition: 3.1 If all fields are not fill correctly then show registration failed. Fill the form carefully.		

3.3 Activity Diagram

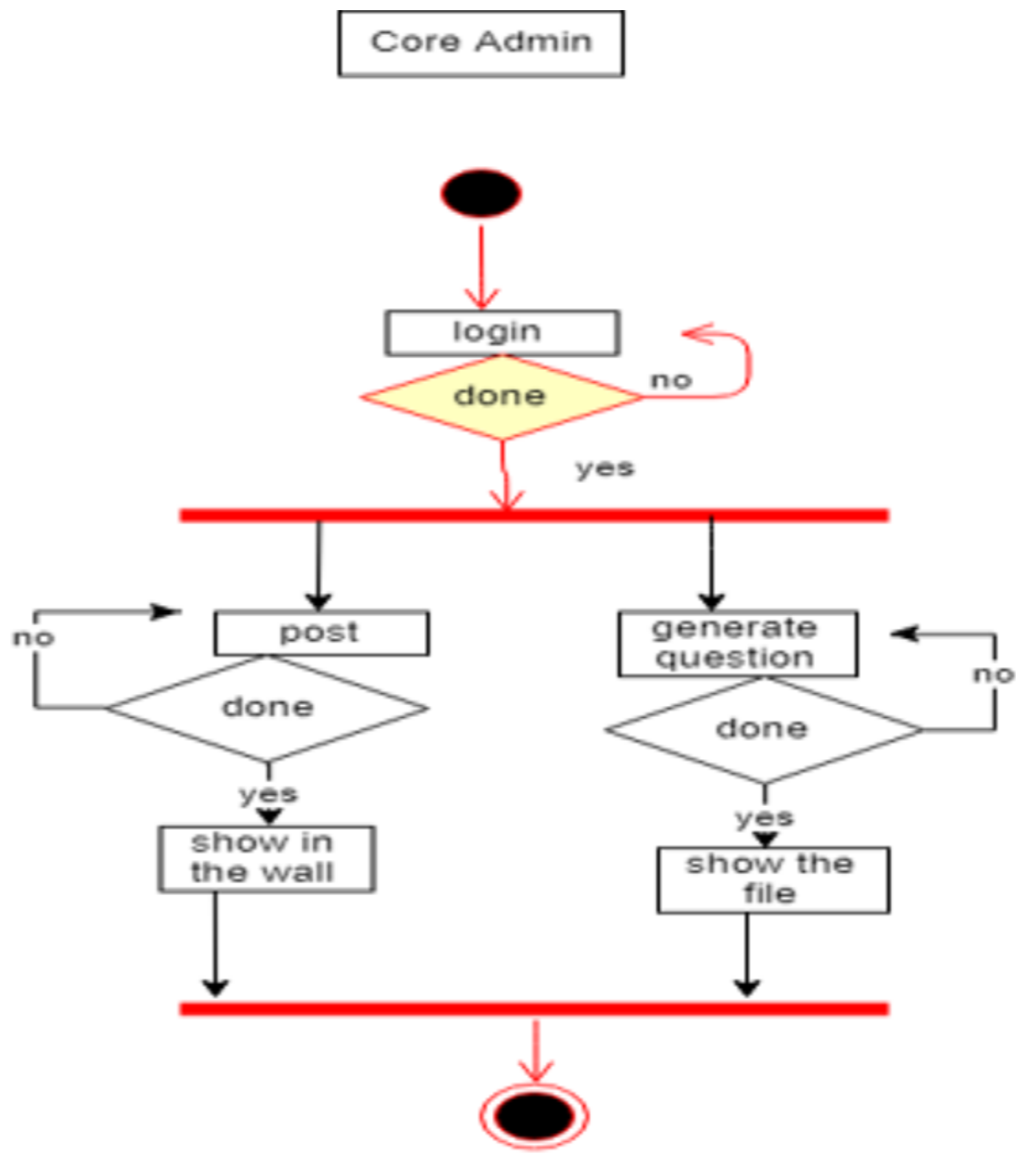


Figure: 3.3.1: Core Admin Activity Diagram

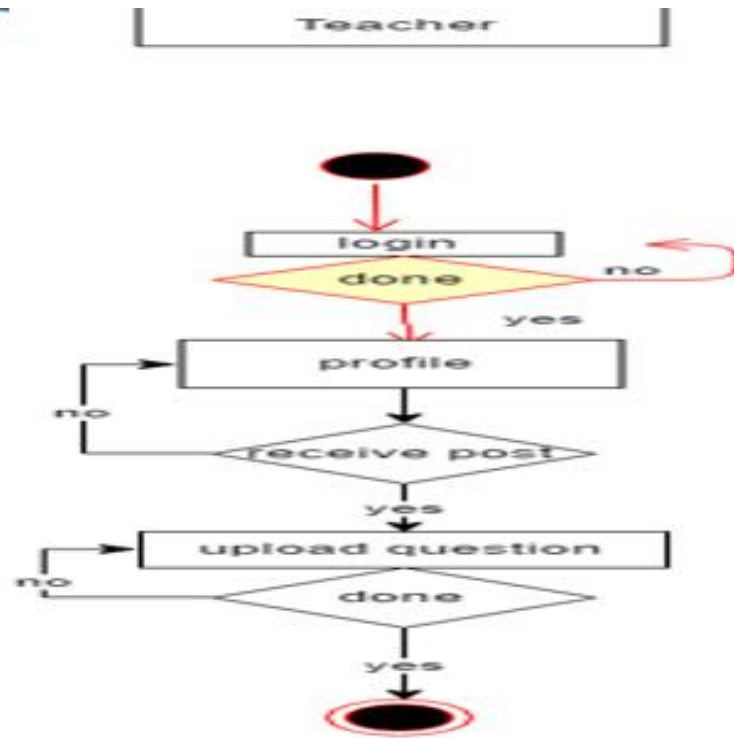


Figure 3.3.2: Teacher Activity Diagram

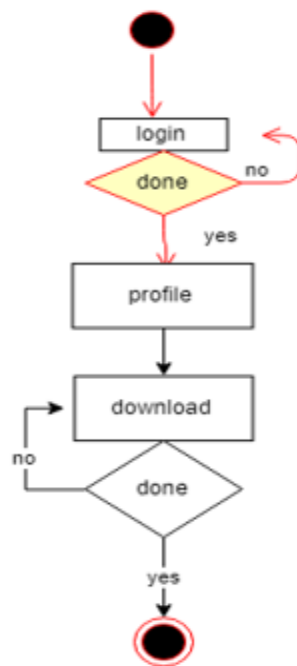


Figure 3.3.3: Exam controller Activity Diagram

Chapter 4

System Design Specification

4.1 Class Diagram

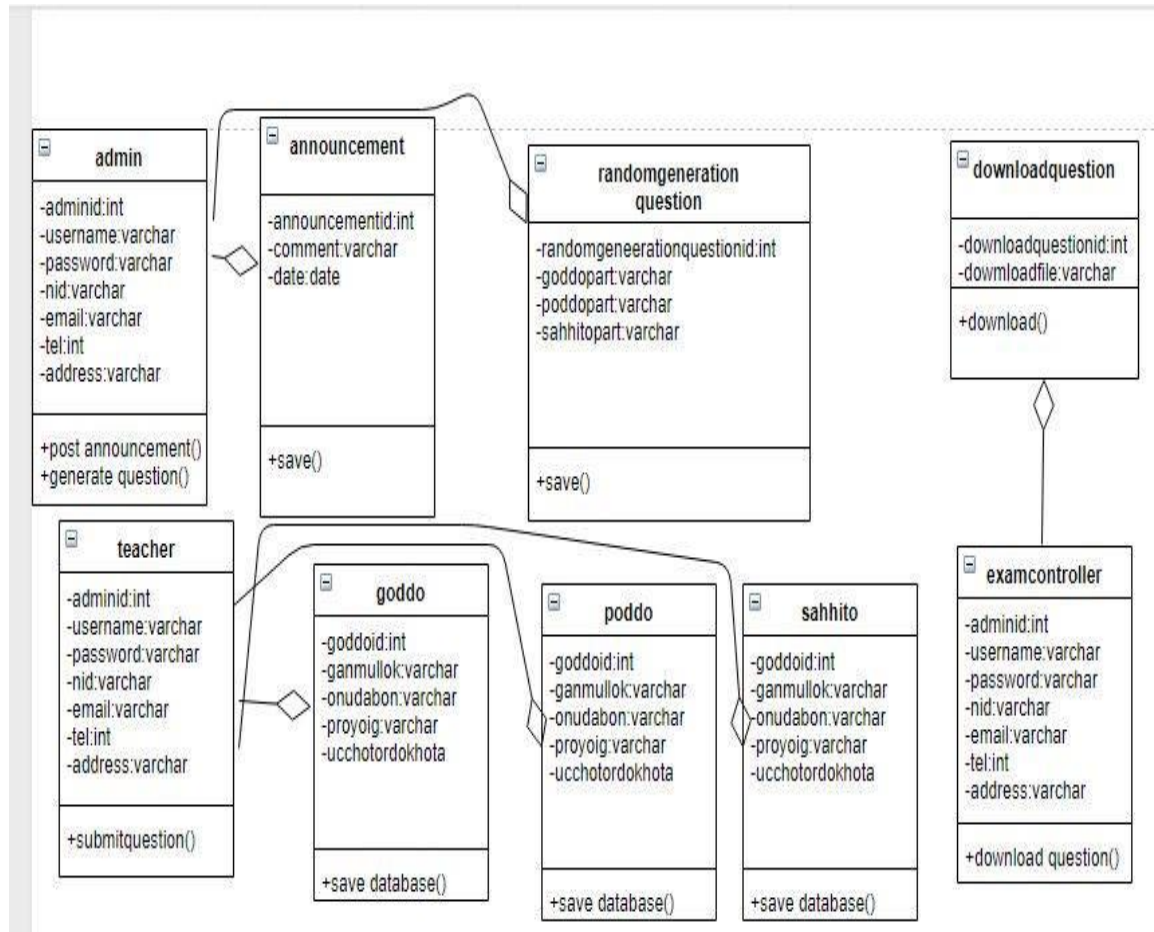


Figure 4.1: Class diagram

4.2 Database Design Diagram

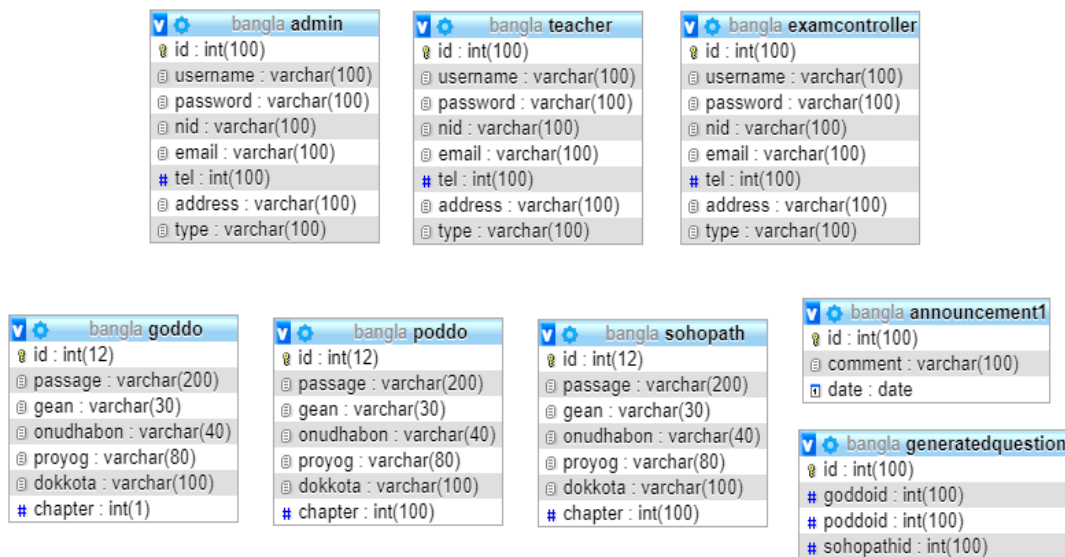


Figure 4.2: Database design diagram

4.3 Development Tools & Technology

4.3.1 User Interface Technology

4.3.1.1 ASP.NET MVC4 Framework or Laravel Framework

Laravel is a web application framework with expressive, elegant syntax. Laravel attempts to take the pain out of development by easing common tasks used in the majority of web projects, such as authentication, routing, sessions, and caching.

Laravel aims to make the development process a pleasing one for the developer without sacrificing application functionality. Happy developers make the best code. To this end, we've attempted to combine the very best of what we have seen in other web frameworks, including frameworks implemented in other languages, such as Ruby on Rails, ASP.NET MVC, and Sinatra.

Laravel is accessible, yet powerful, providing powerful tools needed for large, robust applications. A superb inversion of control container, expressive migration system, and tightly integrated unit testing support give us the tools we need to build any application with which we are tasked.

4.3.1.2 CSS Framework or Twitter Bootstrap

A CSS framework is a pre-prepared software framework that is meant to allow for easier, more standards-compliant web design using the Cascading Style Sheets language. Most of these frameworks contain at least a grid. More functional frameworks also come with more features and additional JavaScript based functions, but are mostly design oriented and unobtrusive. This differentiates these from functional and full JavaScript frameworks.

Two notable and widely used examples are Bootstrap and Foundation.

4.3.1.3 HTML

HTML is a computer language devised to allow website creation. These websites can then be viewed by anyone else connected to the Internet. It is relatively easy to learn, with the basics being accessible to most people in one sitting; and quite powerful in what it allows you to create. It is constantly undergoing revision and evolution to meet the demands and requirements of the growing Internet audience under the direction of the w3c the organization charged with designing and maintaining the language.

The definition of HTML is Hypertext Markup Language.

Hypertext is the method by which you move around on the web — by clicking on special text called hyperlinks which bring you to the next page. The fact that it is hyper just means it is not linear — i.e. you can go to any place on the Internet whenever you want by clicking on links — there is no set order to do things in.

Markup is what HTML tags do to the text inside them. They mark it as a certain type of text (italicized text, for example).

HTML is a Language, as it has code-words and syntax like any other language.

HTML consists of a series of short codes typed into a text-file by the site author — these are the tags. The text is then saved as an html file, and viewed through a browser, like Internet Explorer or Netscape Navigator. This browser reads the file and translates the text into a visible form, hopefully rendering the page as the author had intended. Writing your own HTML entails using tags correctly to create your vision. You can use anything from a rudimentary text-editor to a powerful graphical editor to create HTML page.

4.3.2 Implementation Tools & Platforms

4.3.2.1 Microsoft Visual Studio 2010 or PHP Storm

Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works both as a source-level debugger and a machine-level debugger. Other built-in tools include a code profiler, forms designer for building GUI applications, web designer, class designer, and database schema designer. It accepts plug-ins that enhance the functionality at almost every level—including adding support for source control systems (like Subversion and Git) and adding new toolsets like editors and visual designers for domain-specific languages or toolsets for other aspects of the software development lifecycle (like the Team Foundation Server client: Team Explorer).

Visual Studio supports 36 different programming languages and allows the code editor and debugger to support (to varying degrees) nearly any programming language, provided a language-specific service exists. Built-in languages include C, C++, C++/CLI, Visual Basic .NET, C#, F#, JavaScript, Typescript, XML, XSLT, HTML, and CSS. Support for other languages such as Python, Ruby, Node.js, and M among others is available via plug-ins. Java (and J#) were supported in the past.[Link: https://en.wikipedia.org/wiki/Microsoft_Visual_Studio]

Chapter 5:

System Testing

5.1 Test Cases

5.1.1 Registration Module

Table 5.1.1: Test case for registration

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Search the correct domain of the system	The system should display the web page	Showing the registration page	pass	Users enter the system
2	Fill the username,password,email,nid,tel,address	The system should display that information recorded successfully	Data uploaded successfully	pass	All types of users information recorded successfully
3	Blank any field of the system	The system should display please fill up the field	Fill all the field	fail	For registration fill up all the fields for registration.
4	Submit password or email in incorrect (password must be 6 character and email will be included @)	The system should display please fill up the field correct way	Fill the password with 6 character and email will include.	fail	For registration all users must give password with 6 characters and email will be the proper format.

5.1.2 Login Module

Table 5.1.2: Test case for login

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Submit correct username or invalid password	The system should display please use correct password	Showing the login page	fail	Users unable to log in the system
2	Submit incorrect username or password	The system should display please correct username	Showing the login page	fail	Users unable to log in the system
3	Submit correct username or password	The system should display the main home page that contains everything	Showing all users individual homepage	pass	Users can log in the system with their proper homepage
4	Submit password or email in incorrect (password must be 6 character and email will be included @)	The system should display please fill up the field correct way	Fill the password with 6 character and email will include	fail	For registration all users must give password with 6 characters and email will be the proper format.

5.1.3 Announcement Module

Table 5.1.3: Test case for admin announcement

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Click announcement interface and submit ok without no comment	The system should display unable to post announcement write something	Showing the announcement page	fail	admin unable to post comment in the system
2	Submit comment in comment box but date will not mention	The system should display please give the schedule date otherwise no announcement will not be posted.	Showing the announcement page	fail	Users unable to post comment in the system
3	Submit the comment with proper announcement and proper date	The system should display your announcement is successfully posted	Announcement successfully uploaded	pass	Admin can create an announcement

5.1.4 Upload Question (goddo) Module

Table 5.1.4: Test case for upload question (goddo)

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Click upload question interface and submit save without selected specific subject and available chapter	The system should display unable to submit please select specific subject and available chapter	Showing the goddo page	fail	teacher unable to post questions in the system
2	Submit upload question choosing available chapter and submit only two question for each chapter	The system should display question uploaded successfully	Questions uploaded successfully	pass	Teacher upload questions successfully
3	Submit question with proper chapter and subject but uploaded three questions	The system should display your question is not be processed only two question can be uploaded from each chapter	Chapter has already exists please upload questions in other chapter	fail	Teacher can submit only three question each chapter
4	Submit password or email in incorrect (password must be 6 character and email will be included @)	The system should display please give the schedule date otherwise no announcement will not be posted.	Fill the password with 6 character and email will include.	fail	For registration all users must give password with 6 characters and email will be the proper format.

5.1.5 Upload Question (sohopath) Module

Table 5.1.5: Test case for upload question (sohopath)

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Click upload question interface and submit save without selected specific subject and available chapter	The system should display unable to submit please select specific subject and available chapter	Showing the sohopath page	fail	teacher unable to post questions in the system
2	Submit upload question choosing available chapter and submit only two question for each chapter	The system should display question uploaded successfully	Questions uploaded successfully	pass	Teacher upload questions successfully
3	Submit question with proper chapter and subject but uploaded three questions	The system should display your question is not be processed only two question can be uploaded from each chapter	Chapter has already exists please upload questions in other chapter	fail	Teacher can submit only three question each chapter

5.1.6 Upload Question (poddo) Module

Table 5.1.6: upload question (poddo)

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Click upload question interface and submit save without selected specific subject and available chapter	The system should display unable to submit please select specific subject and available chapter	Showing the poddo page	fail	teacher unable to post questions in the system
2	Submit upload question choosing available chapter and submit only two question for each chapter	The system should display question uploaded successfully	Questions uploaded successfully	pass	Teacher upload questions successfully
3	Submit question with proper chapter and subject but uploaded three questions	The system should display your question is not be processed only two question can be uploaded from each chapter	Chapter has already exists please upload questions in other chapter	fail	Teacher can submit only three question each chapter

5.1.7 Generate Question Module

Table 5.1.7: Test case for admin generate question

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Select question and ready to generate	The system should display unable to auto generate first select category of each subject	Showing the generation page	fail	Admin unable to generate questions paper
2	Select question of each category but not selected examination type	The system should display please select the expected examination type	Showing the generation page	fail	Admin unable to generate questions paper
3	Select each category and select board with proper time	The system should display your request is processing and question auto generation is complete with successful	Questions paper generated successfully	pass	Admin generate questions paper randomly

5.1.8 Exam Controller (download) Module

Table 5.1.8: Test case for exam controller (download)

Id	Input	Expected Result	Actual Result	Pass/Fail	Commend
1	Click download question without proper time	The system should display your request is pending	Showing the download page	fail	Exam controller unable to download questions paper.
2	Select each center and proper time and download question	The system should display your request is processing and download complete	Questions downloaded successfully	pass	Exam controller download questions successfully.

Chapter 6

User Manual

6.1 User Manual (Core Admin)

Use user name, type and password for login. Click generate option for generate questions. Press submit button for send the question to the exam controller. Press create post for give any announcement to the teachers. Select logout option for exit the system.

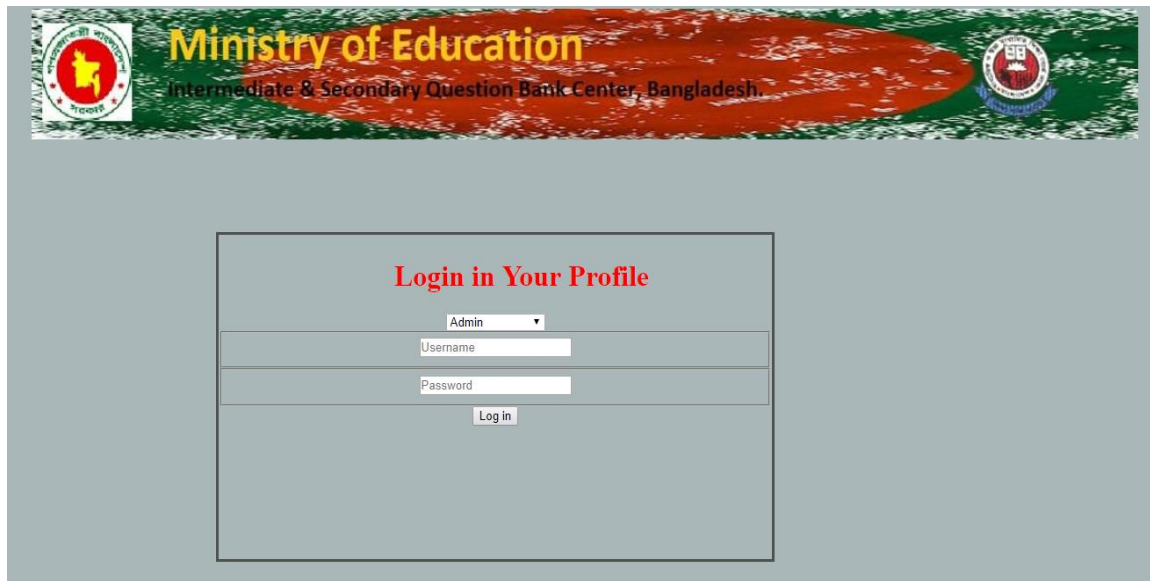


Figure 6.1.1: admin login



Figure 6.1.2: Admin home

ক-সেট
মাধ্যমিক বাংলা (সৃজনশীল)
[২০১৯সালের সিলেবাস অনুযায়ী]
১ম পত্র
বিষয় কোড:
৩৩৩
সময় ২ ঘণ্টা ১০ মিনিট
পূর্ণমান-৬০

[দ্রষ্টব্য :ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।প্রদত্ত উদ্দীপকগুলো মনযোগ দিয়ে পড় এবং সংশ্লিষ্ট প্রশ্নগুলোর যথাযথ উত্তর দাও।প্রত্যেক অংশ থেকে দুইটি করে মোট ছয়টি প্রশ্নের উত্তর দাও। একই প্রশ্নের সাধু ও চলিত ভাষার ভাষারীতির মিশ্রণ দৃষ্টীয়।]

ক অংশ-গদ্য

(১) আকবর হোসেন পৌর মেয়র। তিনি একজন জনদরদি নেতা। সমাজের নিচু তলার মানুষের সঙ্গে তার চলাফেরা বেশি। তিনি তাদের সুখ-দুঃখের সাক্ষী। তাদের সাথে কার্ণে কার্ণে মিলিয়ে রাস্তা সংস্কার এবং নদমা পরিষ্কার করেন। তিনি বলে

(ক) 'দুদিনের যাত্রী' কোন ধরনের গ_____ (নম্বর: ১)
(খ)লেখক 'ছোটলোক' সম্প্রদায় বলতে কী বুঝিয়েছে _____ (নম্বর: ২)
(গ) উদ্দীপক উপেক্ষিক শক্তির উদ্ধোধন প্রবন্ধের যে দিকটিটি প্রতিফলিত হয়েছে তা ব্যাখ্যা _____ (নম্বর: ৩)
(ঘ) "এরাই আমার আসল শক্তি।" উদ্দীপকের আকবর হোসেনের এই উক্তিটি উপেক্ষিক শক্তির উদ্ধোধন প্রবন্ধের আলোকে বিশ _____ (নম্বর: ৪)

Figure: 6.1.3: Admin generate question process

6.2 User Manual (Teacher)


To use the system and become a member of this system you should register first. Should fill all the fields. Use your type as teacher, password and username for login the system. Press upload question for upload questions. Use question categories. Press submit button for submit the questions. Select logout option for exit the system.

The screenshot shows the 'Registration First' form for a Teacher. The form is titled 'Welcome to Ministry of Education of Bangladesh' and 'Intermediate & Secondary Question Bank Center, Bangladesh'. The registration fields are:

- Teacher (dropdown menu)
- Username
- Password
- NID No
- Email Address
- Telephone No
- Current Address
- Submit button


At the bottom, there is a link: 'All ready singed?Please login [LOGIN](#)'.

Figure: 6.2.1: Teacher registration



Ministry of Education

Intermediate & Secondary Question Bank Center, Bangladesh.



Login in Your Profile

Teacher ▼

Username

Password

Log in

Figure: 6.2.2: Teacher login



Ministry of Education

Intermediate & Secondary Question Bank Center, Bangladesh.





Teacher

Ministry of Education Board

[Upload question](#)
[logout](#)

Figure: 6.2.3: Teacher home



Ministry of Education

Intermediate & Secondary Question Bank Center, Bangladesh.



Select Examination ▼

Upload

Figure: 6.2.4: Teacher upload question process

Figure: 6.2.5: Teacher upload question process

6.3 User Manual (Exam controller)

To use the system and become a member of this system you should register first. Should fill all the fields. Use your type as exam controller, password and username for login the system. Press download question and select a question for download. Press download for download the question. Select logout option for exit the system.

LOGIN'."/>

Figure: 6.3.1: Exam controller registration

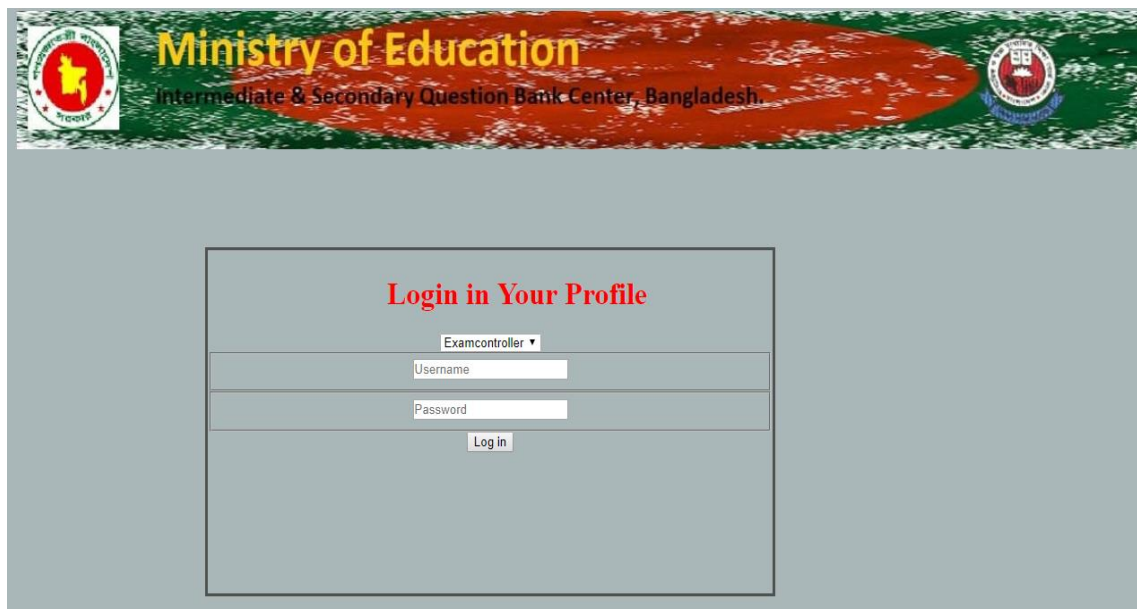


Figure: 6.3.2: Exam controller login



Figure: 6.3.3: Exam controller download

Chapter 7

Project Summary

7.1 Critical Evolution

The critical evolution of this system is generate a 100marks questions which questions are randomly selected by the system. Also post an announcement and download the generated questions are also with this point.

7.2 Limitations

To development and apply this system there may some complexity of this system

- a. Low capable server cannot be used in this system, so server cost will be high.
- b. Main server can be shut down in any time for any kind of reasons.
- c. Server can be slow in work.
- d. Hacker can hack this system.
- e. Difficulty to develop every exam hall using multimedia.
- f. Lack of enough trained people.
- g. System may cannot generate questions properly.
- h. Involvement of unauthorized person.
- i. Timely unable to maintenance.
- j. System problem can be occur in exam time.
- k. This is a huge project at all. So, we are working on all of this kind of complexity.

7.3 Obstacles & Achievements

A lots of obstacles we faced to developed this systems. Some time we started to think that this system can't be possible to develop in this short time. But our supervisor and our friends are helped so much to complete this project. We have to do lots of research about this project. Faced lots of errors during the development. But out achievements this project grow our confidence level and we learned more about how to research, developing rightly.

7.4 Future Scope

This project can be apply in any kind of examinations. Also it can be used in any country if they want. This project become a revelation for our exam system if this project can be upgrade more.