

Online Coaching Center System

By

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A Project submitted in partial fulfillment of the Requirement for the degree of Bachelor of Science in Software Engineering

Department of Software Engineering (SWE) DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project Title Online Coaching Center System A Client -side website developed in PHP for the student submitted by Md Monirul Islam, ID: 171-35-214 to the Department of Software Engineering Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.SC in Software Engineering and approved as to its style and contents

DECLARATION

I, **Md Monirul Islam** do hereby declare that this report has been done by us under the supervision of **Ms. Raihana Zannat** Lecturer (Senior Scale) Dept. of software Engineering, Daffodil International University We also declare that this report nor any portion of this report has been submitted elsewhere for award of any degree

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ACKNOWLEDGEMENT

ABSTARCT

The online coaching Center system is designed to benefit students and parents. this website is very easy for students and parents to use through this website the parent will be able to see from his own home whether his children have gone to the coaching center, and his son and daughter will be able to see the results, a total of four differences in this system are admin teacher student guardian, everyone will have a different user ID and password, to login to the website you need to enter a valid user ID and password, after logging in, there will be different homepages again, show everything separately on the homepage, After finishing the work, he logged out and left the system

TABLE OF CONTENTS

APPROVAL	ii
DECLARATION	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iii-vi
LIST OF FIGURES	vii
LIST OF TABLES	vii-viii

CHAPTER 1: INTERODUCTION

1.11.2	Project Overview Project purpose	
	1.2.1 Background	1
	1.2.2 Benefits & Beneficiaries	2
	1.2.3 Goals	2
1.3	Stakeholders	2
1.4	Proposed system Model (block diagram)	3
1.5	Project Schedule	3-5
	1.5.1 Gantt Chart	5
	1.5.2 Release plan/Milestone	5
	CHAPTER 2: SOFTWARE REQUIREMENT SPECICATION	
	CHAITEN 2. 3011WANE NEQUINEWENT STECKATION	
2.1	functional Requirements	5
	2.1.1 login	6
	2.1.2 User's Profile Student	6
	2.1.3 User's Profile Teacher	6
2.2	Data Requirements	6
2.3	Performance Requirements	7
2.4	Dependability Requirements	7
	2.4.1 Reliability Requirements	7
2.5	Maintainability and Supportability Requirements	7
	2.5.1 Maintenance Requirements	7
2.6	Security Requirements	8
2.7	Usability and Human-Interaction Requirements	8

2.8	Look and feel Requirements	8
2.9	Operational and Environmental Requirements	9
2.10	Legal Requirements	9
	CHAPTER 3: SYSTEM ANALYSIS	
3.1	Use case Diagram	10
3.2	Use case Description (for each use case)	11-15
3.3	Activity Diagram for admin (for each use case)	16
	3.3.1 Activity Diagram for student	17
	3.3.2 Activity Diagram for teacher	18
	3.3.3 Activity Diagram for parent	19
3.4	System sequence Diagram (for each use case)	20
	CHAPTER 4: SYSTEM DESIGN SPECIFICATION	
4.1	Class Responsibilities Collaboration (CRC) Cards	21
4.2	Sequence Diagram (for each use case)	22
4.3	Class Diagram	23
4.4	ER Diagram	24
4.5	Development Tools & Technology	25
	4.5.1 User Interface Technology	25
	4.5.1.1 PHP	25
	4.5.1.2 HTML	25
	4.5.1.3 CSS	25
	4.5.2 Implementation tools & Platforms	26
	4.5.2.1 Implementation of Database	26

	4.5.2.2 Implementation of Front-end Design	26
	4.5.2.3 Implementation of Interactions	26
	CHAPTER 5: SYSTEM TESTING	
5.1	Testing Features	27
	5.1.1 Features to be tested	27
	5.1.2 Features not be tested	27
5.2	Testing Strategies	27
	5.2.1 Test Approach	27
	5.2.2 Pass/Fall Criteria	27
	5.2.3 Suspension and Resumption	28
5.3	Testing Environment (hardware/software requirements)	29
5.4	Test Case	29
	5.4.1 Test case Report	30
	CHAPTER 6: USER MANUAL	
6.1	user Manual (Type A user)	30
6.2	User Manual (Type B user)	31
6.3	User Manual (Type C user)	32
	CHAPTER 7: PROJECT SUMMARY	
7.1	GitHub Link	33
7.2	Critical Evolution	33
7.3	Limitations	33
7.4	Achievements	33
7.5	Future Scope	34
7.6	References	34

List of Figures

Fig 1.4 Block diagram	3
Fig 1.5.1.1 Gantt Chart	5
Fig 3.1 use case Diagram	10
Fig 3.3 Activity Diagram (Admin)	16
Fig 3.3.1 Activity Diagram (Student)	17
Fig 3.3.2 Activity Diagram (Teacher)	18
Fig 3.3.3 Activity Diagram (Parent)	19
Fig 3.4 system sequence Diagram	20
Fig 4.2 Sequence Diagram	22
Fig 4.3 Class Diagram	23
Fig 4.4 ER Diagram	24
Fig 6.1 User Manual (type A user)	30
Fig 6.2 User Manual (type B user)	31
Fig 6.3 User Manual (type C user)	32
List of Tables	
Table 1.5.1.1 Finding Idea Proposal	3
Table 1.5.1.2 Requirement Gathering	
Table 1.5.1.3 Logical System Design	4
Table 1.5.1.4 Development Phase	4
Table 1.5.1. a Gantt Chart	5
Table 2.1.1 Complete Login	5
Table 2.1.2 User's profile Student	6
Table 2.1.3 User's Profile Teacher	6
Table 2.1.3 User's Profile Parent	7
Table 3.2.1: use Case description of Complete Login	11
Table 3.2.2: use Case description of Add Student/Teacher	11

Table 3.2.3:	use Case description of Class Video	-12
Table 3.2.4:	use Case description of Student Attendance	-12
Table 3.2.5:	use Case description of Add Notice	-13
Table 3.2.6:	use Case description of Class c Schedule	13
Table 3.2.7:	use Case description of Tuition Fee	14
Table 3.2.8:	use Case description of Check Result	14
Table 3.2.9:	use Case description of Complaint Teacher	15
Table 5.4 Te	st Cases	-29
Table 5.4.1	Test Case Report	-30

Chapter-1

Introduction

The main goal of creating an online coaching center system is that we can information at home. online coaching management system is very easy to manage. within this system there will be four different part admin teachers-parents students will have separate login system for all parents can give academic information of his student, this system will depend entirely on the software coaching center system software developed for an institute has been designed to achieve maximum efficiency and reduce the time taken to handle the storing activity

1.1 Overview

This web site is from an important place provides an easier way to find larger literature We can use it online Inside the website will be all the academic information of the student Parents can also use the website Many important tasks can be done very easily here this website is designed specifically for people and includes parents and students So as to save them important time. the website has been created with that goal in mind

1.2 Purpose & Scope

I now live in the age of modern science People in this age are very creative they always want to discover something new This is a help for these creative people, the website is primarily intended for students through this website students can easily get their academic know the information through this website, parents will be able to know the academic information of their son and daughter

1.2.1 Background

The main purpose of this website is to make education very easy the main purpose of implementing this application is so that the parent can easily reach his student and their kids have to see everything academic

Requirement of Project Build

- ◆ PHP
- ❖ MySQL
- ❖ HTML
- CSS
- **❖** JS
- Bootstrap

1.2.2 Benefits & Beneficiaries

Coaching Center System This is an online website that's why it has many good aspects students, parents and teachers can easily use this website We can easily manage the online coaching center system from home

- Effective Communication between parents and faculties
- Managing Financial aspects becomes easy
- Helps in avoiding unnecessary paperwork
- Parents can watch sitting at home

1.2.3 Goal

The main goal of creating this website. currently seen at our university the parent calls the teacher to get information about her child. but this through the website, the parent will be able to see the information of his child himself then the goal of this website is to make student parent teacher very easy the system has to be used the purpose of this website is to improve performance If people use our site. it will save them time. another part is that admin can remove anything from it

1.3 Stakeholders

In this system, stakeholders are main source of information. In this project, stakeholders are student, coaching center person a creator, organization, internal stakeholders, admin and creator

Basically parents, students and teachers can use this website

- ❖ Student
- Teacher
- Parents

1.4 proposed System Model (block diagram)

Block diagram is a diagram what is represents functions of relations in system. Block diagram shows relation between blocks in a system.

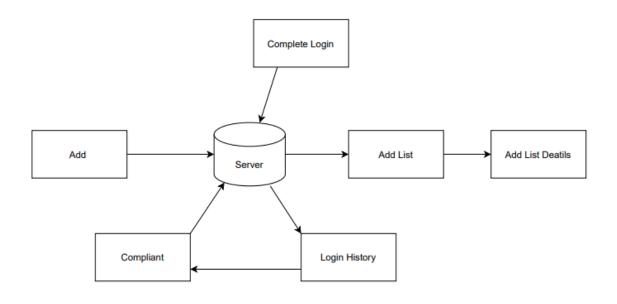


Fig: 1.4

1.5 Project Schedule

Takes a fairly good time to finish the project. from the whole system I tried to finish my website

The website took approximately six months to complete. Here is the Gantt chart. So that I can easily know when I finish my work

1.5.1 Gantt Chart

1.5.1.1 Finding idea proposal:

No	Work Description	Start	End	Total
1	Idea selection	28-11-2020	02-12-2020	05
2	Idea Finding with Supervisor	03-12-2020	08-12-2020	06
3	Study with supervisor	09-12-2020	12-12-2020	04
4	Feature Discussion with	13-12-2020	12-01-2021	30
	Supervisor			
5	Work Flow Maintenance	13-01-2021	01-02-2021	20
6	SDLC Selection	02-02-2021	04-02-2021	3

1.5.1.2 Requirements Gathering

No	Work Description	Start	End	Total
1	System Flow	05-02-2021	11-02-2021	07
2	Requirement gathering for proposed system	12-02-2021	17-02-2021	06
3	Requirement Collection	18-02-2021	25-02-2021	08
4	SRS	26-02-2021	02-03-2021	05
5	All requirement and information	04-03-2021	09-03-2021	06

1.5.1.3 Logical System Design

No	Work Description	Start	End	Total
1	Use case Diagram	10-03-2021	12-02-2021	03
2	Activity Diagram	13-03-2021	15-03-2021	03
3	Sequence Diagram	16-03-2021	17-03-2021	02
4	Class Diagram	18-03-2021	20-03-2021	03

1.5.1.4 Development Phase:

No	Work Description	Start	End	Total
1	Build User Module	21-03-2021	26-03-2021	06
2	Build Prescription Module	27-03-2021	30-03-2021	04
3	Build Admin Module	31-03-2021	05-04-2021	05
4	Database Integration	06-04-2021	08-04-2021	03
5	Live Streaming Implementation	09-04-2021	13-04-2021	05
6	Refactoring Code	14-04-2021	04-05-2021	21
7	Intend All Code	05-05-2021	27-05-2021	23

1.5.1. a Gantt Chart

Dec					Jan				Feb				Mar				April				May			
W1	W2	2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
					Plai	nning	3			•									'					
										Requiremen			Requirements											
										Gatherin			ng											
																al System		tem						
													Design		ıgn									
																		Developm		pme	ent Phase			

Fig:1.5.1

1.5.2 Release Plan / Milestone

I want to release this system in 2022 because the system is no small project, I will add many more features during this time

Chapter-2

2.1 SOFTWARE REQUIREMENT SPECICATIO

2.1 Functional & Non-Functional Requirement List

2.1.1 Complete Login

Requirement No	Requirement
R1	User Id
R2	Password

2.1.2 User's profile Student

Requirement No	Requirement
R-1	Name
R-2	Email
R-3	Address
R-4	City
R-5	Class
R-6	Phone number
R-7	Father's Name
R-8	Mother's Name

2.1.3 User's Profile Teacher

Requirement No	Requirement
R-1	Name
R-2	Email
R-3	Address
R-4	City
R-5	Date of joining
R-6	Salary
R-7	Subject
R-8	Experience

2.2 Data Requirement

The requirements for creating the system model refer to those data. my project needs to focus on a few things, such as:

- Password Generator
- ❖ Automatically Forget Password option generated information
- Generate option for edit user profile
- Generate personal search engine to search user
- Generate a comment section
- Generate a following option for the user

2.3 Performance Requirement

Performance requirements define how effectively a system performs under certain conditions, Performance requirements are key components when designing and testing the product. all of the behaviors have been resolved in my system. my website runs in just 60 seconds. now I can manage storage for my website: no special hardware is required for the server software. any well-performed desktop or laptop should be provided for the server. hardware client machines required for desktop operating systems and web browsers

2.4 Dependability Requirement

2.4.1 Reliability Requirement

Reliability requirements Goal details for material. this document specifies the software requirements for the online appointment system reliability is an important non-functional requirement for most software products so the reliability requirement of a software Requirement Specification (SRS) should be adopted and in most cases done

2.5 Maintainability & Supportability Requirement

At least one backup server with the same configuration as the original server is also recommended for crime tolerance and better presentation. Separate storage (including backup) for databases, electronic documents and manuscripts recommended

2.5.1 Maintenance Requirements

- ❖ Prevent this system from virus attack
- ❖ Always check the system configuration
- * Return customer for system update
- * This system requires a checkup team

2.6 Security Requirement

Every time there is a security breach. for this reason, when the admin registers, the user has to register the system

with a strong password that is not shareable. the user always has to log out of the system when not needed

2.7 Usability and Human-Interaction Requirements

Usability is a feature of consistency in how easy it is to use user interfaces. the term "usability" also refers to approaches during the design process for ease of use.

2.8 Look and Feel Requirements

Appearance is defined by such elements,

- Color
- Image
- **A** Layout
- Font Design choices
- **❖** Overall styling

2.9 Operational & Environmental Requirement

The operational essential definition function includes the following activities: identify the partners who are interested or interested in this system so the main stakeholders are the students, they should register and login for other activities. recognize measurements of functionality and compatibility, so that users can easily access and use this system. the reliability of a system depends on a stable environment

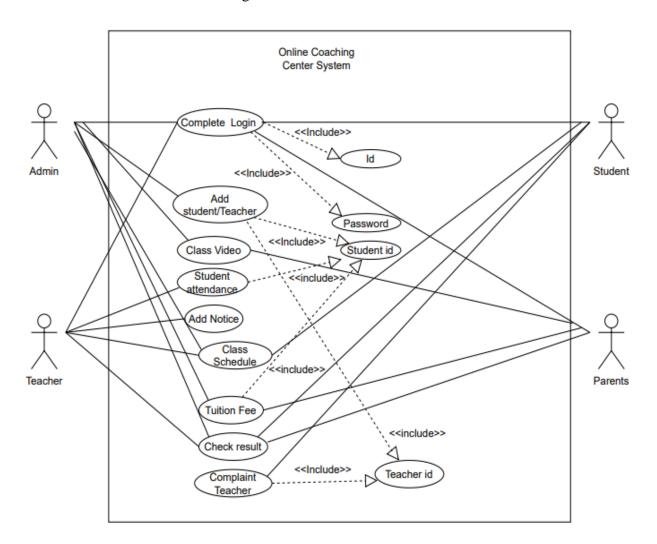
2.10 Legal Requirements

- * Reduce the risk of user-generated content
- Licensing of necessary materials
- Follow equal use exceptions
- ❖ You believe the law has been broken
- Prepare yourself when it is hacked
- ❖ Make sure your website has a privacy policy

Chapter 3: System Analysis

3.1 Use case Diagram

Fig 3.1



3.2 use Case description

Table 3.2.1: use Case description of Complete Login

Use Case #01	Complete Login
Primary Actor	User
Secondary Actor	Null
Pre-condition Pre-condition	Admission
Scenario	Enter valid User ID Enter password
Post-condition	Successfully Login

Table 3.2.2: use Case description of Add Student/Teacher

Use Case #02	Add Student /Teacher
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the Student ID
	Enter the Teacher ID
Post-condition	The user is Successfully Add

Table 3.2.3: use Case description of Class Video

Use Case #03	Class Video
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the File NameEnter the Add File
Post-condition	Successfully Add

Table 3.2.4: use Case description of Student Attendance

Use Case #04	Student Attendance
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the Select DateEnter the Student ID
Post-condition	•Successfully Add

Table 3.2.5: use Case description of Add Notice

Use Case #05	Add Notice
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	 Enter the Select Date Enter the Select Subject
Post-condition	Successfully Add

Table 3.2.6: use Case description of Class c Schedule

Use Case #06	Class Schedule
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	 Enter the Select Date Enter the Select Subject
Post-condition	Successfully Add

_

Table 3.2.7: use Case description of Tuition Fee

Use Case #07	Tuition Fee
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the Select Student Id
Post-condition	Successfully

Table 3.2.8: use Case description of Check Result

Use Case #08	Check Result
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the Select Student Id
Post-condition	Successfully

 Table 3.2.9: use Case description of Complaint Teacher

Use Case #09	Complaint Teacher
Primary Actor	User
Secondary Actor	User
Pre-condition	Login
Scenario	Enter the Select Teacher ID Enter the Select Subject
Post-condition	Successfully

3.3 Activity Diagram for Admin

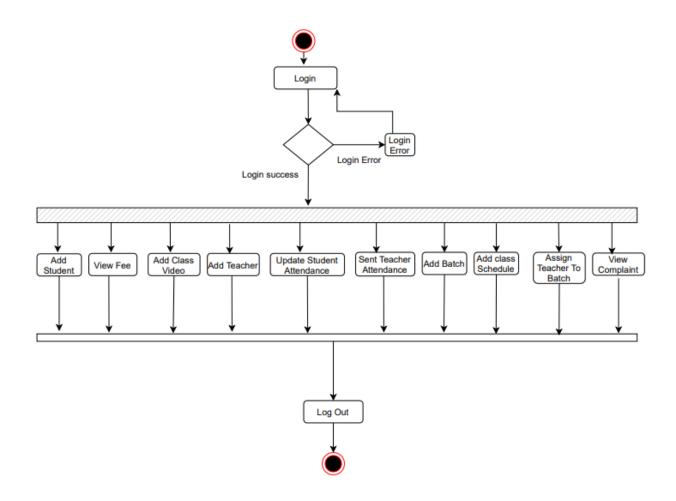


Fig:3.3

3.3.1 Activity Diagram for student

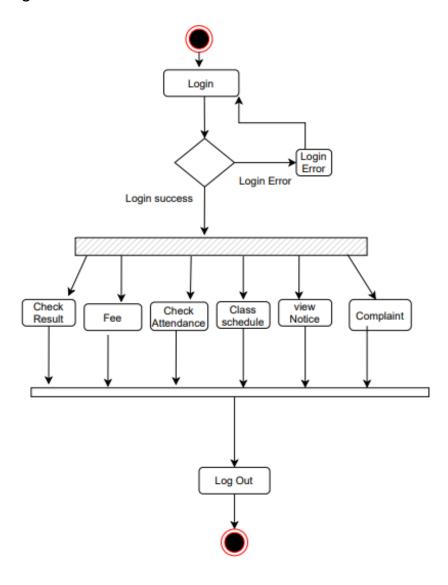


Fig:3.3.1

3.3.2 Activity Diagram for Teacher

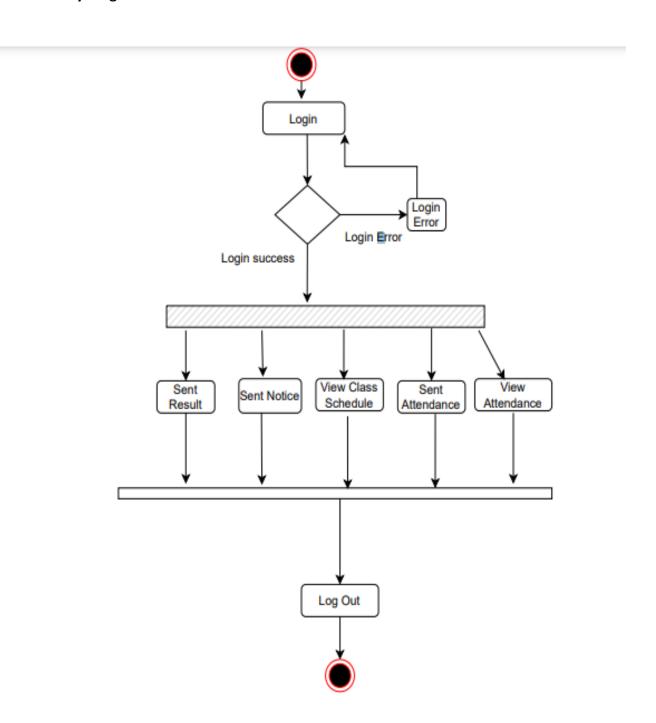


Fig: 3.3.2

3.3.3 Activity Diagram for Parent

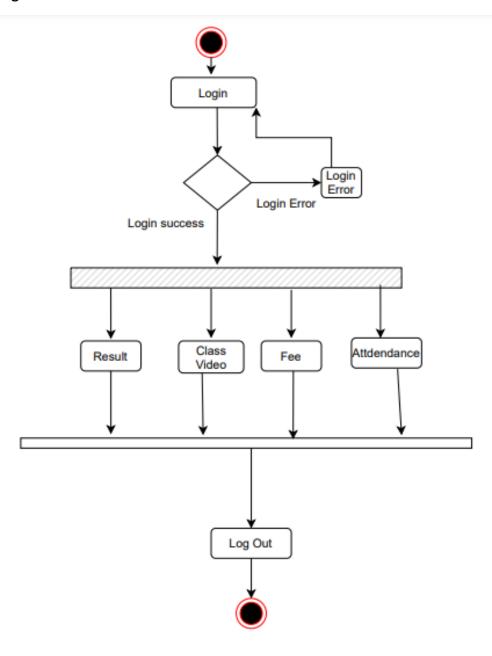


Fig: 3.3.3

3.4 sequence Diagram

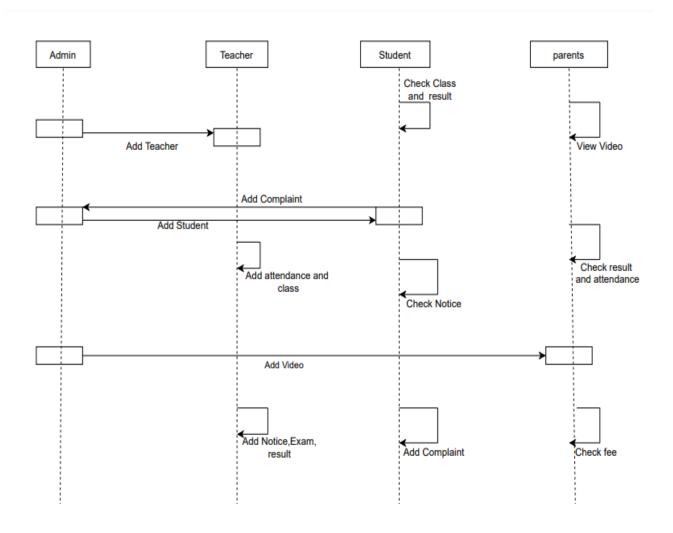


Fig:3.4

Chapter-4: System Design Specification

4.1 Class Responsibilities Collaboration (CRC) Cards

Class Responsibilities Collaboration (CRC) cards the class responsibility collaborator (CRC) cards are exponent cards that are turn on advantage for mapping postulant classes in predefined sketch continuity; e.g., use ase scenarios. the objective of CRC cards is to simplify the design process while confirming an active sharing of environed designers. this paper represents the first effort at a CRC card form language

Attributes	User	
User Name	Login	3
User Email Id	Go to Home Page	ain F
User Phone Number	Check All Method	?espc
User Address	Update Password	Main Responsibility
User Select Class		ility
	Login System	Col
	System Server	Collaboration
		ratio
		nc

4.2 Sequence Diagram

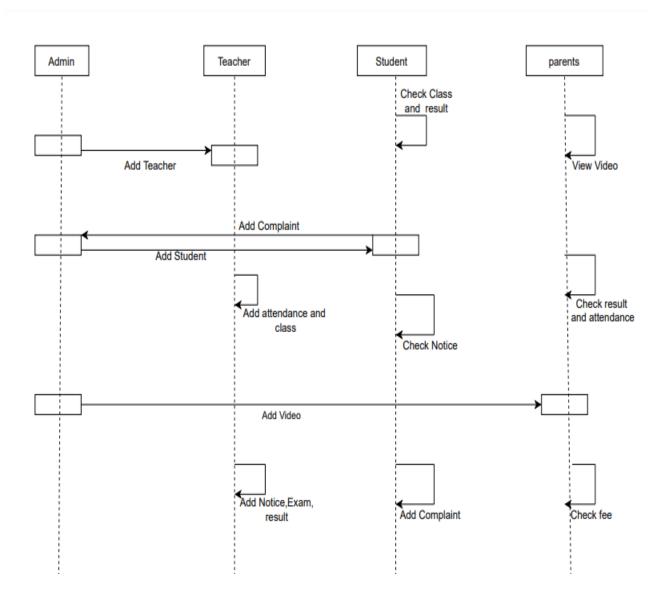


Fig:4.2

4.3 Class Diagram

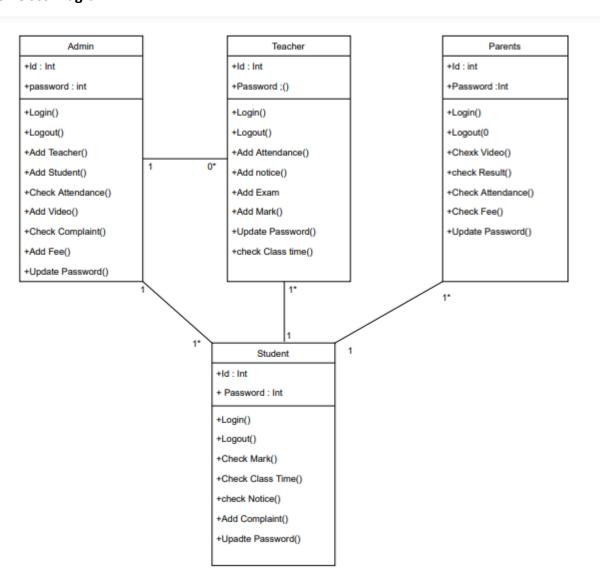


Fig:4.3

4.4 ER Design Diagram

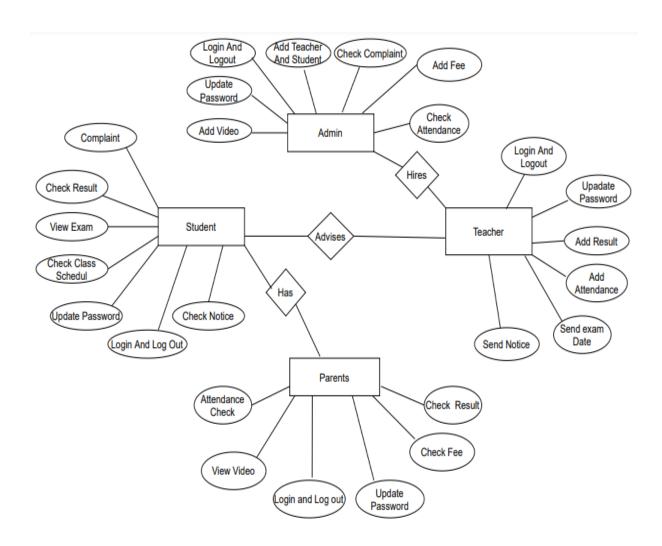


Fig 4.4

4.5 Development Tools & Technology

4.5.1 User Interface Technology

This may include the presence of a display screen, keyboard, a mouse and a desktop. It allows a user to interact with an application or a website.

4.5.1.1 PHP Framework

Php is the most popular language the php has multiple frameworks Php is the best popular language for Creating Websites Php security is very strong Platforms on which PHP can be used (windows, Linux, Unix, Mac OS X, etc.) Servers that php supports (Apache, IIS, etc.)

4.5.1.2 HTML Framework

HTML Web Designer Best Language, HTML Ecommerce websites are made more HTML Best Popular language we can easily learn HTML language

4.5.1.3 CSS Framework

CSS HTML is a part CSS is mainly used for design what CSS are used to design the website

4.5.2 Implementation Tools & Platforms

4.5.2.1 Implementation of Database

In this project we used XAMPP to implement the system database.

4.5.2.2 Implementation of Front-end Design

In the front-end design of this system, we used some templates and then we change it by the need of the proposed system with php and JS. after that we also linked those templates with html and CSS code to implement the front-end

4.5.3 Implementation of Interactions

The primary user of the system are the people include student, teacher and parents. the admin panel has all rights to add new users features in the database and many more.

CHAPTER-5: SYSTEM TESTING

5.1 Testing Features

Feature testing is a software development method of testing of a feature to condition the best user knowledge.

5.1.1 Features to be Tested

- Registered user cannot login without user id, password.
- ❖ A user cannot login the system with a wrong password.
- ❖ When a user logout from the system he/she cannot use the system without login in the system.
- ❖ A user cannot upload a text file.

5.1.2 Features not to be Tested

- Login verification with the email not check yet.
- ❖ Login verification with the phone number not check yet.

5.2 Testing Strategies

A test strategy is a configuration that recalculates test access in a software development cycle. the purpose of a testing strategy is to provide gradual exceptions to the actual test actions to meet those objectives from a regulatory, high-level targeting point of view.

5.2.1 Test Approach

- Functionality Testing
- **❖** Interface testing
- User Friendly testing
- Compatibility testing
- **❖** Performance testing
- Security testing

5.2.2 Pass/Fall Criteria

- All add function upload process is pass
- Use profile update process is pass
- Email verification is failed
- payment system is failed

5.2.3 Suspension and Resumption

The suspension ground for software testing means that the whole or part of the test activities have to be increased in excess when the resumption criteria indicate the resumption of the previously suspended activities.

5.3 Testing Environment (hardware/software requirements)

Hardware requirements

❖ Processor: x86 or x64

* RAM: 1GB (recommended)

❖ Hard disk: up to 4 GB

Software requirements

❖ Any text editors such as Notepad++, Sublime and Visual studio code

- **\times** Windows 10,8,8.1,7
- ❖ Windows server 2008 and later
- ❖ Linux or Unix or Mac
- ❖ Internet Explorer 8 +
- Microsoft Edge
- ❖ Mozilla Firefox 22 +
- **!** Chrome 17 +
- **❖** Opera 12 +

5.4 Test Cases

Test Name: Login							
Test Procedure	PHP Unit Test						
Test ID							
Step No.	Operator Action	Expected result and Evaluation Criteria	Result				
1	Form Validation	Each form checking, escaping character, file size not more than 6m	Ok				
2	User Existing	Checking email verify for exiting user.	Ok				
3	Secure login and	User Session creating	Ok				

5.4.1 Test Case Report

Functions	Description	Executed%	Passed%	Pending	Priority
Login	Check creator and user login	100%	100%	0	High
Homepage	Check all	100%	100%	0	High
Add	Check confirmation	100%	100%	0	High
View	Check view the lists	100%	100%	0	High

CHAPTER-6: USER MANUAL

All the information required by the user to make full use of the information system is included in the user manual

6.1 User Manual (type A user)

type users of this web system are student, you can use the system by logging in

Online Coaching Center System

User:Student

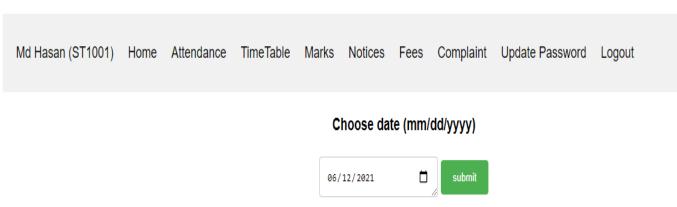




Fig:6.1

6.2 User Manual (type B user)

B type users of this web system are teacher, you can use the system by logging in

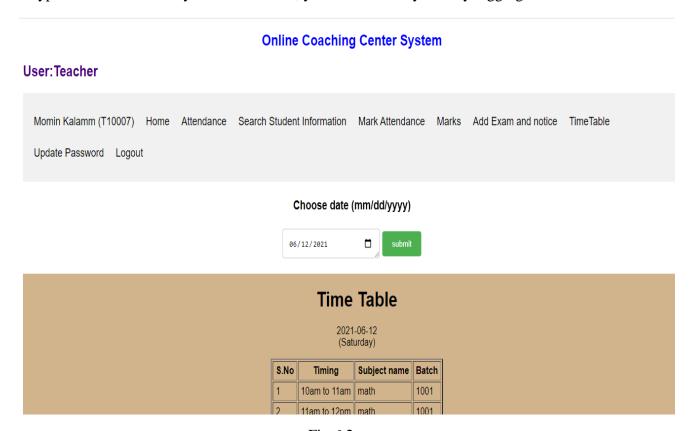


Fig:6.2

6.3 User Manual (type C user)

C type users of this web system are guardians, you can use the system by logging in

Offine Coaching Center System								
User:Parent								
Home Marks Fees Videos Update Password Logout								
Attendance - Md Hasan								
	S.NO.	Subject	Timing	Date	Status	Teacher	Teacher ID (EID)	
		Physics	2:00pm-4:00pm	2021-03-28	Absent	monir	E10004	
	2	Physics	2:00pm-4:00pm	2021-04-11	Absent	monir	E10004	
		Math	10am to 11am	2021-05-29	Present	Momin kalamm	T10007	
	4	Math	12PM to 2PM	2021-05-30	Present	Momin kalamm	T10007	

Online Coaching Center System

Fig:

CHATER-7: PROJECT SUMMARY

7.1 GitHub Link: https://github.com/Rmmonirul/COACHING_Management_System

7.2 Critical Evolution

- The purpose of this website is clearly defined to the user
- The include Students, Teacher and parents
- This system is an up-to-date website
- ❖ All the links of this website are credible and authentic

All the information used in this website is verifiable.

7.3 Limitation

- Parents cannot see everything of the student
- There is no email verification system
- This entire online platform cannot be used offline

7.4 Achievements

- ❖ Add student: Only Admin will add Student.
- Show Teacher lists: User can see teacher
- Change Teacher: Any time we can change teacher.
- Complaint: student can complaint here.

7.5 Future Scope

Future Scope We'll develop our project in future for more necessary.

- Everyone can upload picture of profile or event.
- We'll add phone verification.
- we'll add live class
- ❖ we'll one Click all report download
- ❖ We'll connect internal payment system.
- We'll add admin panel for more secure.
- ❖ We'll create a Mobile application.
- ❖ We'll use AI technology

7.6 References

Book References

PHP Notes for Professionals

Web References

- https://creately.com/tour/
- https://www.w3schools.com/default.asp
- https://www.tutorialspoint.com/php/php mysql login.htm
- https://github.com/