

In system analysis a study of the system as detailed as possible will occur with the help of some diagrams i.e. Use case Diagram, Activity Diagram, Sequence Diagram, ER Diagram, DFD etc. This chapter is representing the diagrams and interface design of project.

7.1 Use Case Diagram:

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

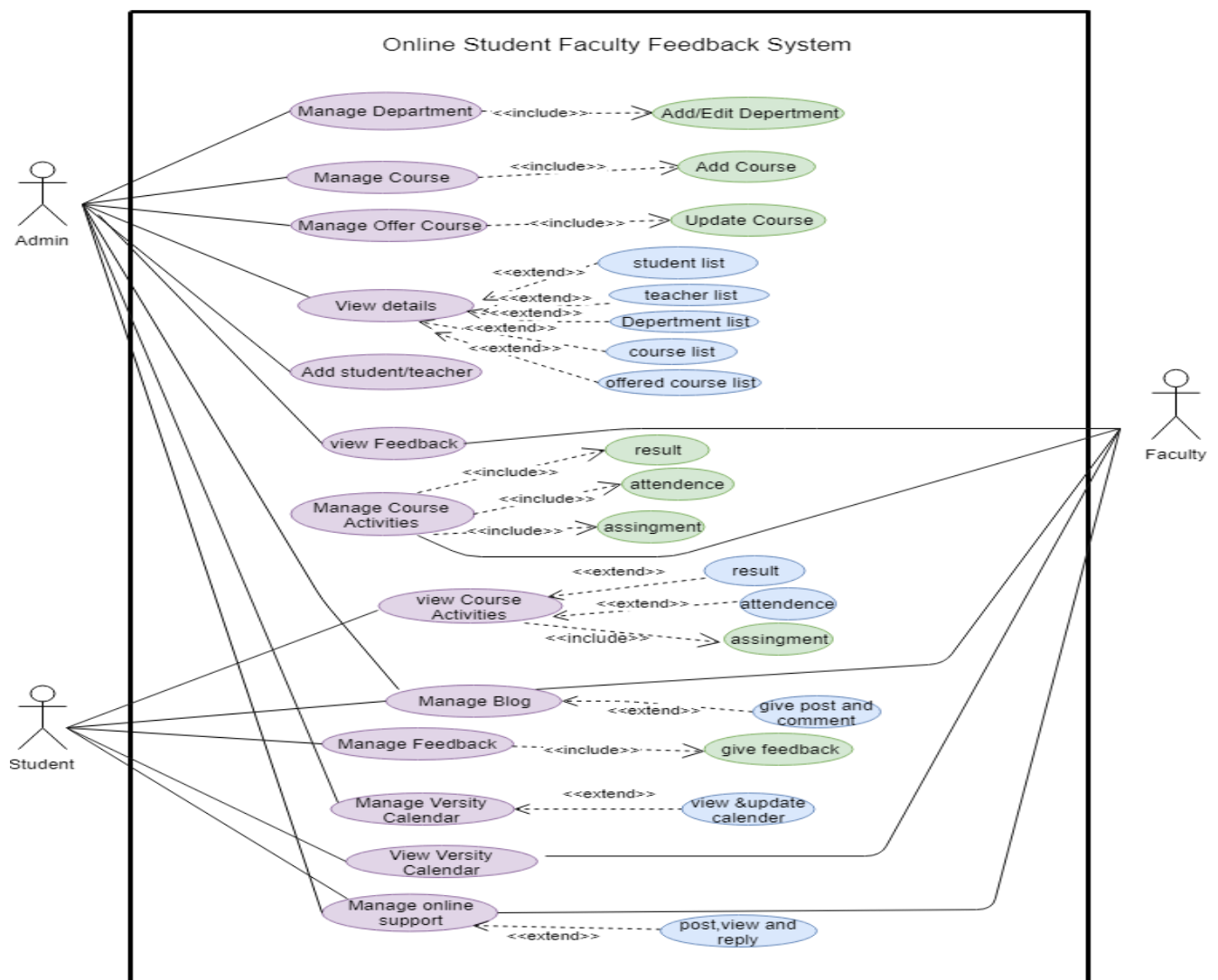


Figure 7.1 Use Case Diagram for Online Feedback System

7.1 Activity Diagram

Activity diagrams describe the workflow behavior of a system. Activity diagrams are similar to state diagrams because activities are the state of doing something. The diagrams describe the state of activities by showing the sequence of activities performed. Activity diagrams can show activities that are conditional or parallel.

Activity Diagram for Admin:

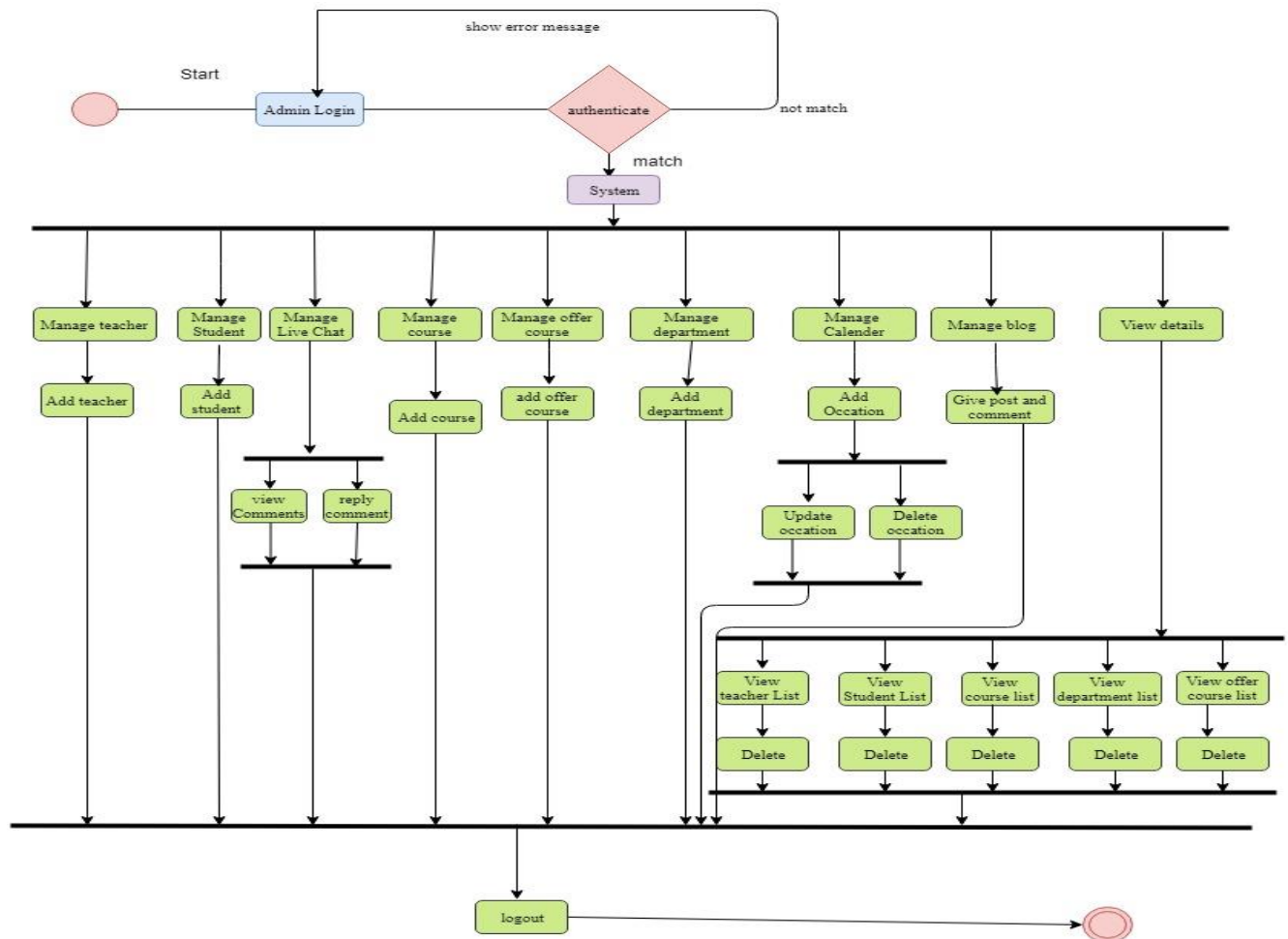


Figure 7.2 Activity Diagram for Admin

Activity Diagram for Teacher:

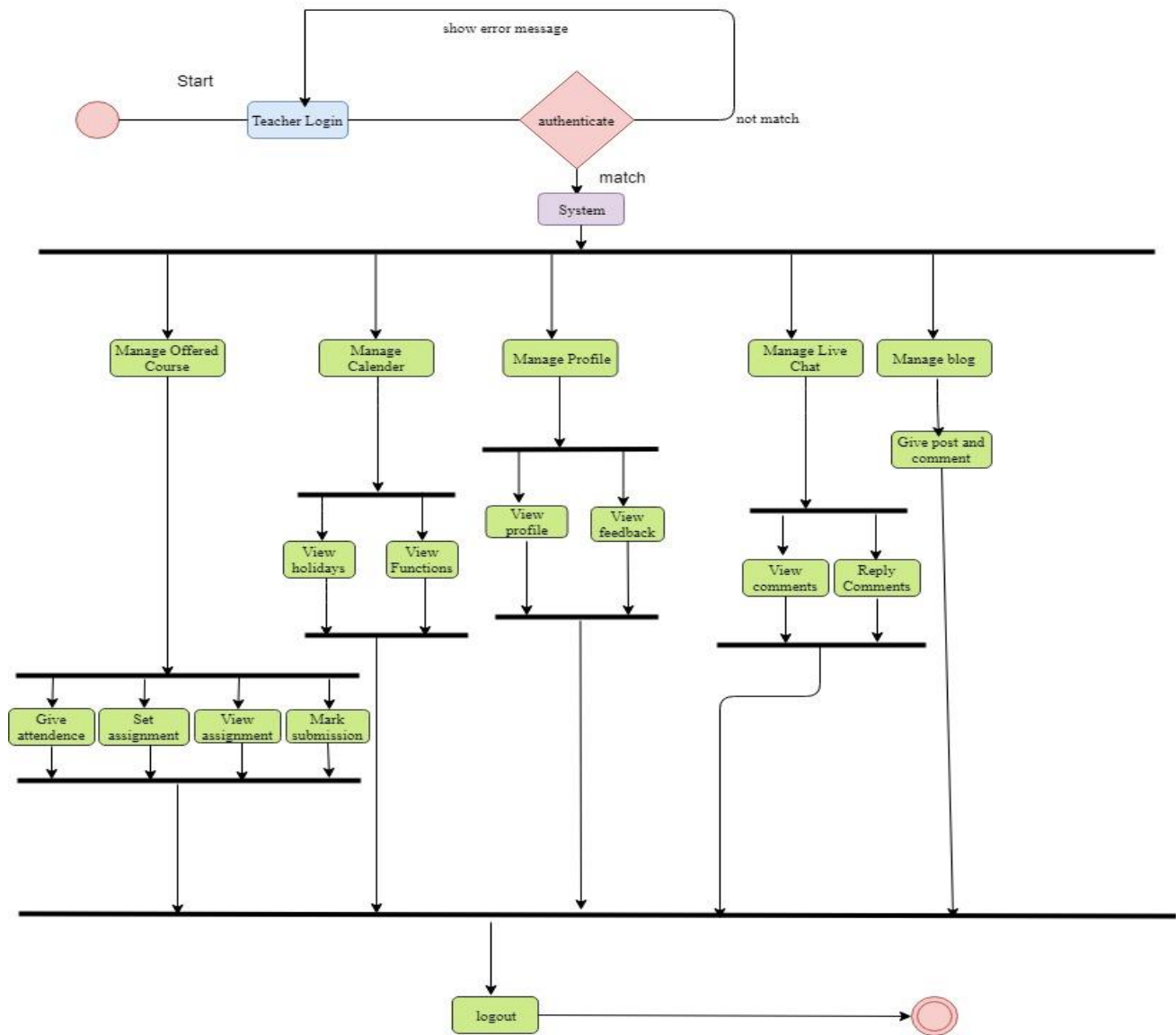


Figure 7.3 Activity Diagram for Teacher

Activity Diagram for Student :

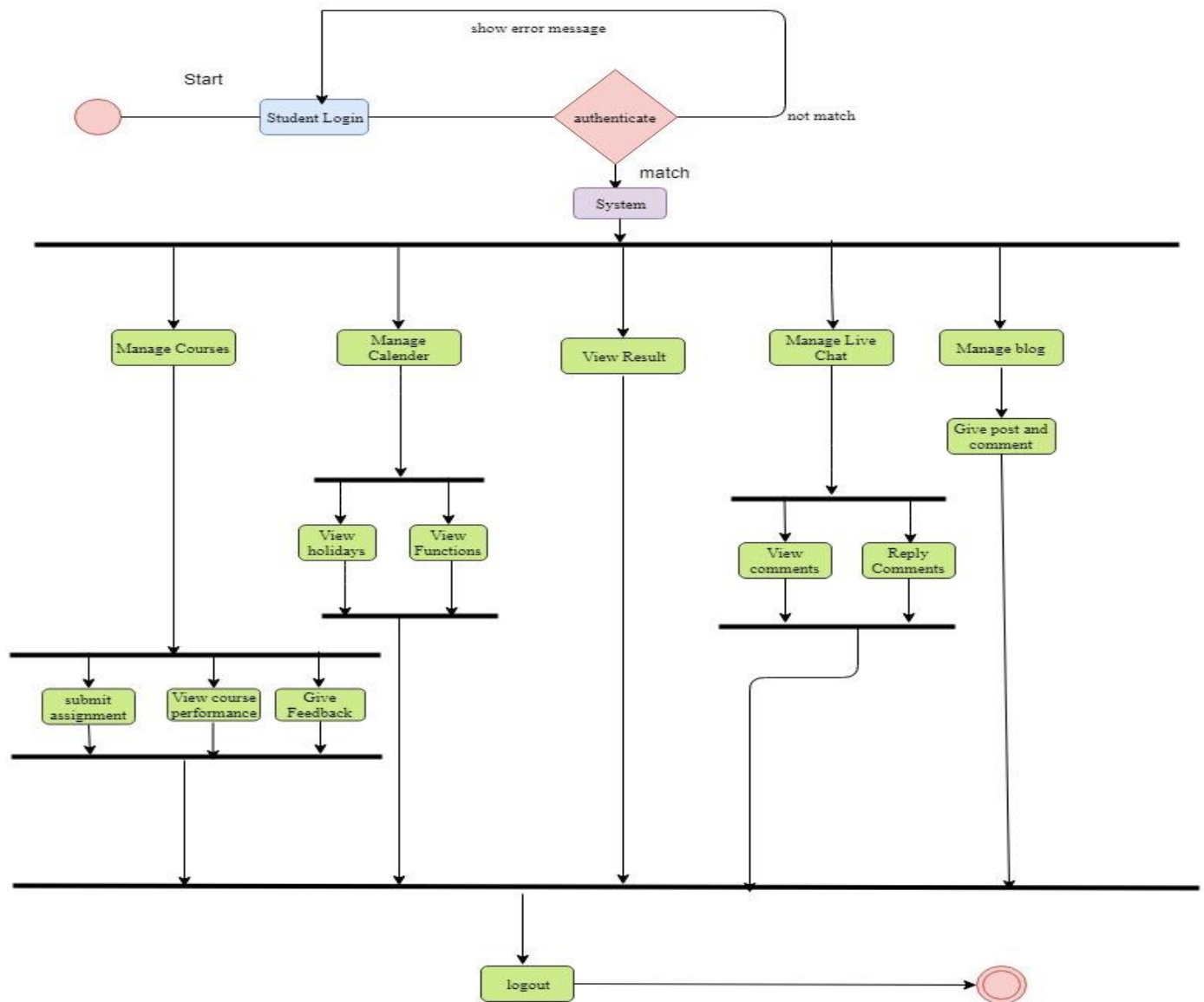


Figure 7.4 Activity Diagram for Student

7.3 Sequence Diagram

A sequence diagram is an interaction diagram that shows how objects operate with one another and in what order. It is a construct of a message sequence chart. A sequence diagram shows object interactions arranged in time sequence.

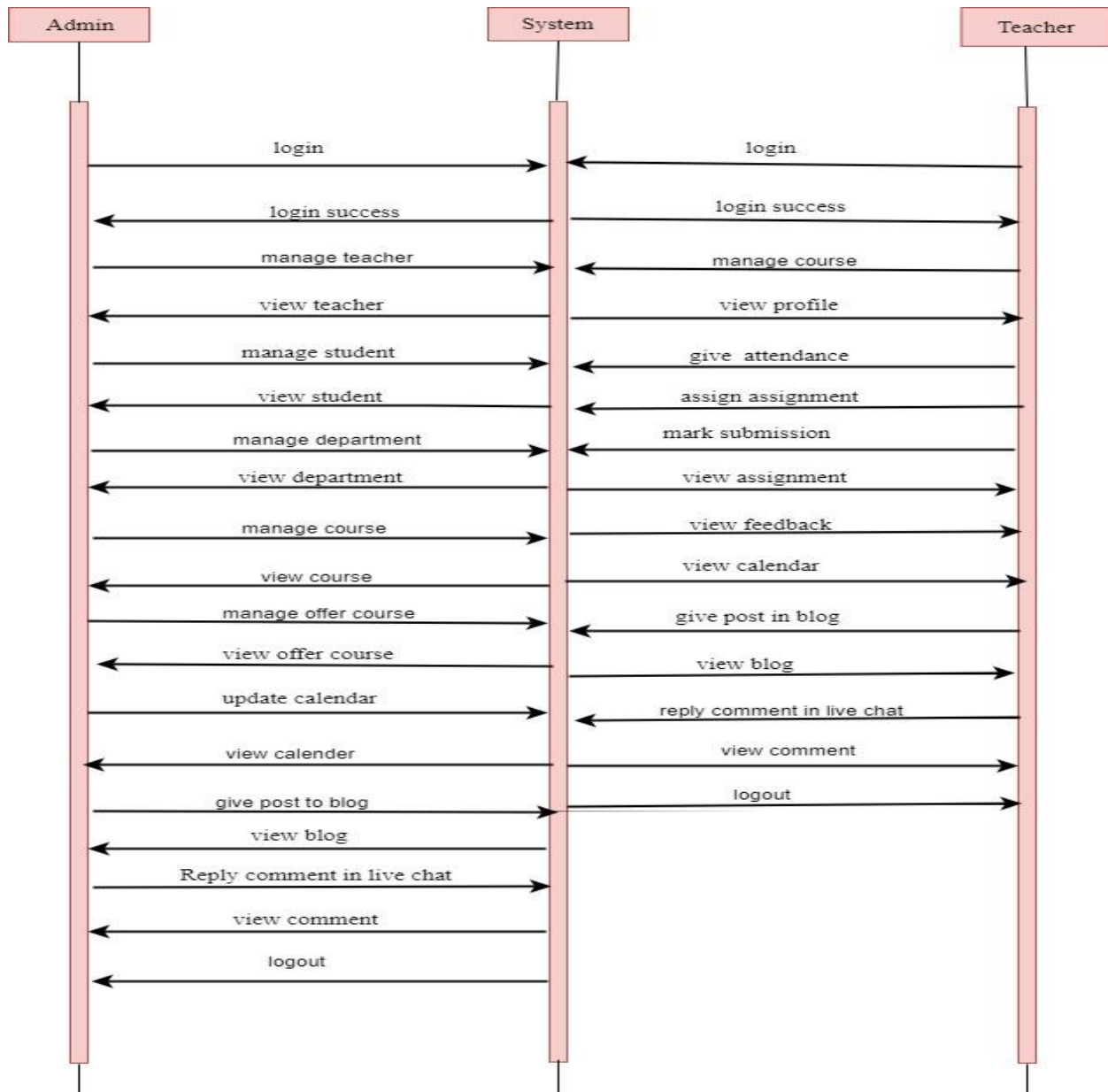


Figure 7.5 Sequence Diagram for Admin and Teacher

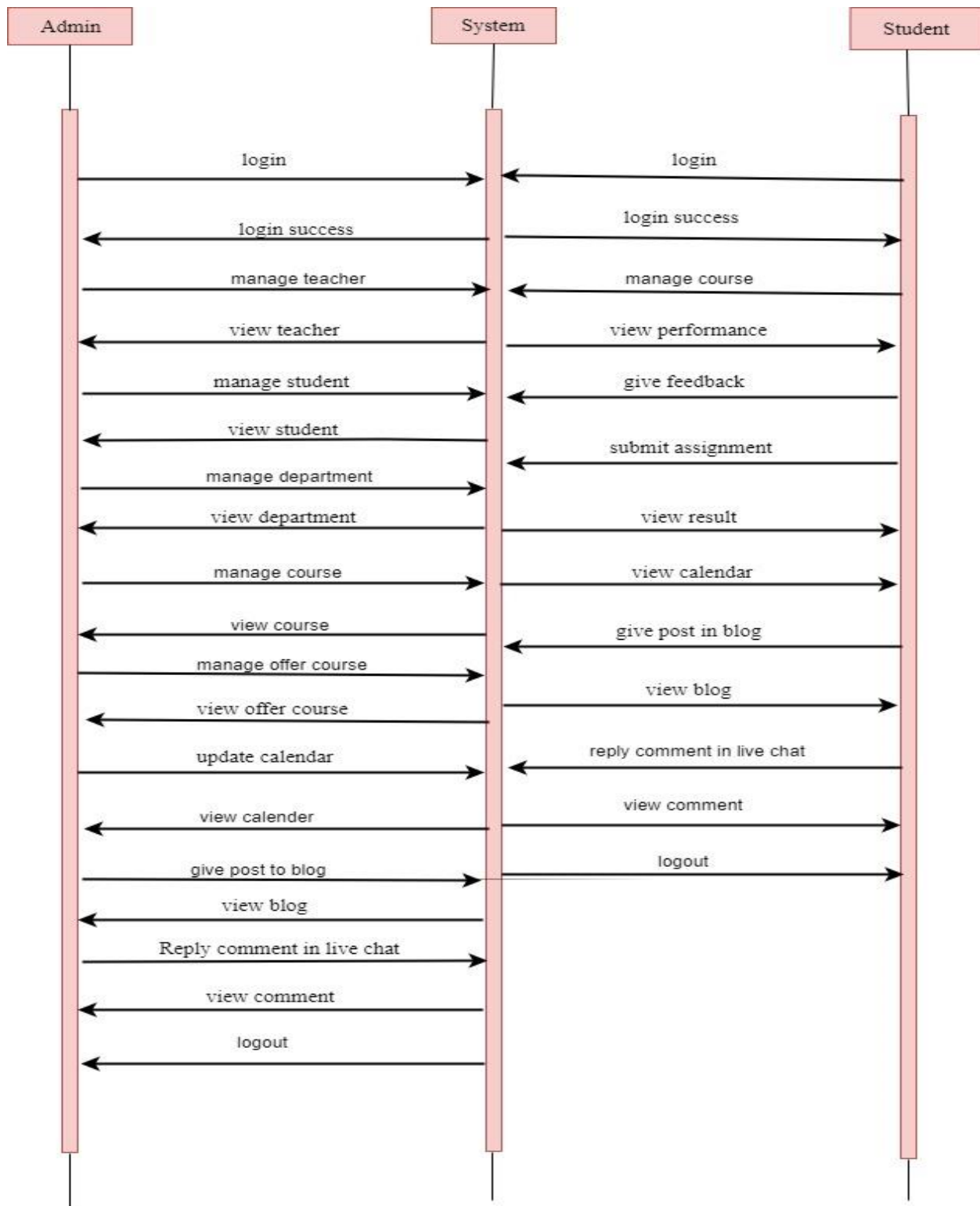


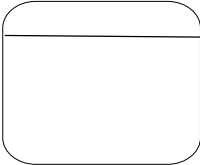



Figure 7.6 Sequence Diagram for Admin and Student

7.4 Data Flow Diagram (DFD):

A Data Flow Diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborate DFDs can also be used for the visualization of data processing (structured design). A DFD shows what kind of information will be input to and output from the system, where the data will come from and go to, and where the data will be stored. It does not show information about the timing of process or information about whether processes will operate in sequence or in parallel symbol of Data Flow Diagram (DFD)

Description	Symbol
Data Flow	
Source and Destination	
Process	
Data Store	

Context Level Diagram

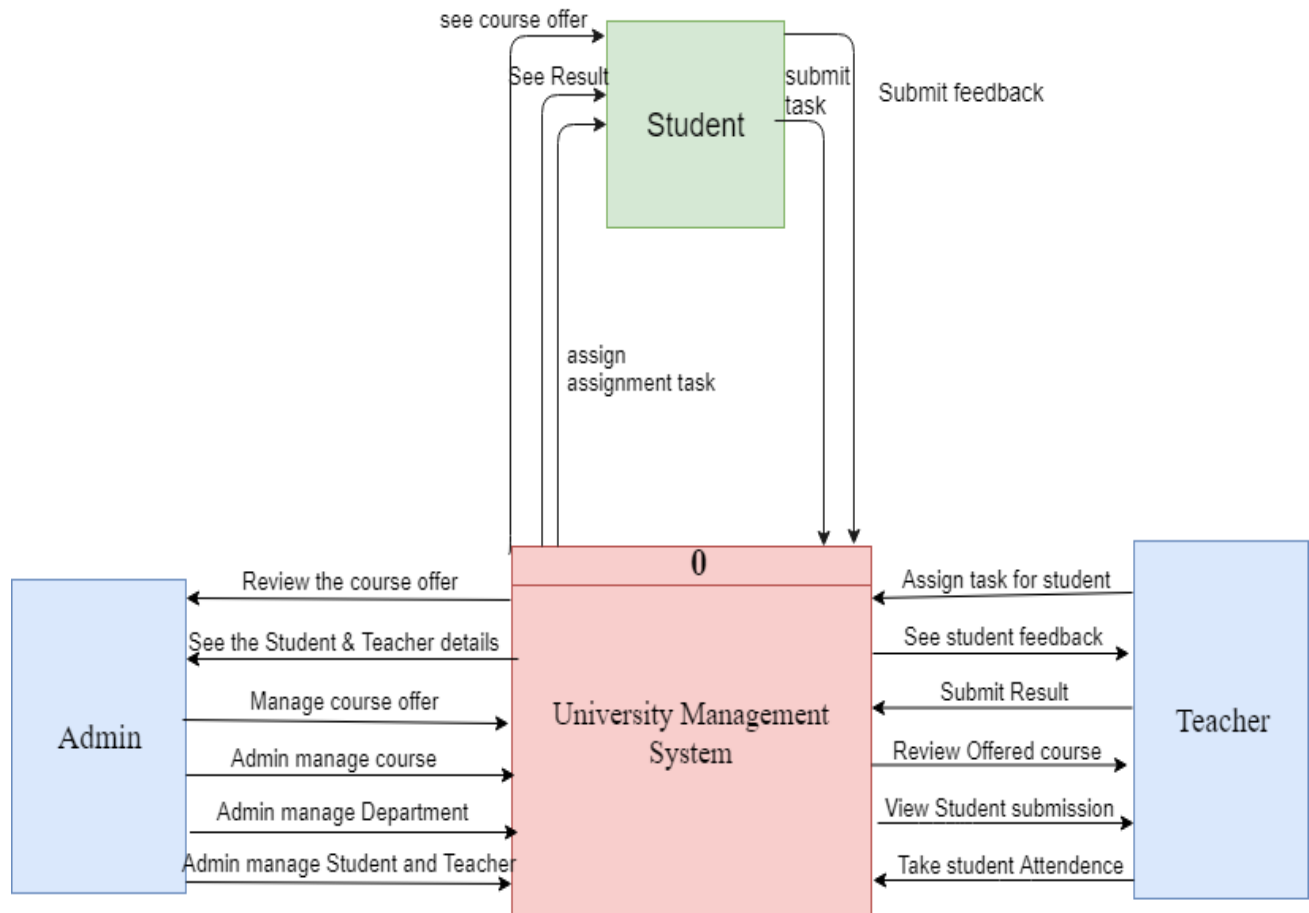


Figure 7.7 Context Level Diagram

Level 1 Diagram

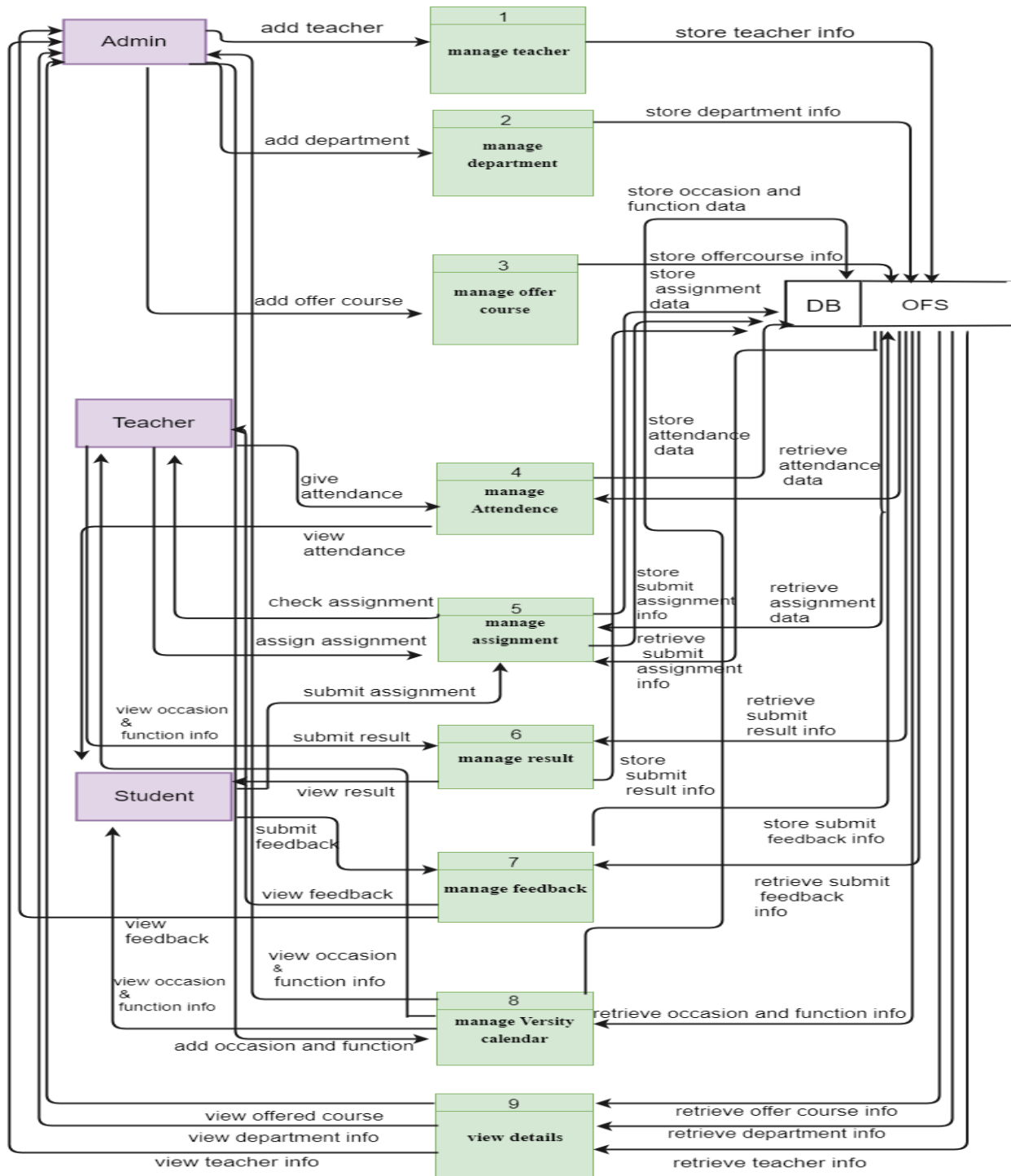


Figure 7.8 Level 1 Diagram for online feedback system

Level 2 Process 1

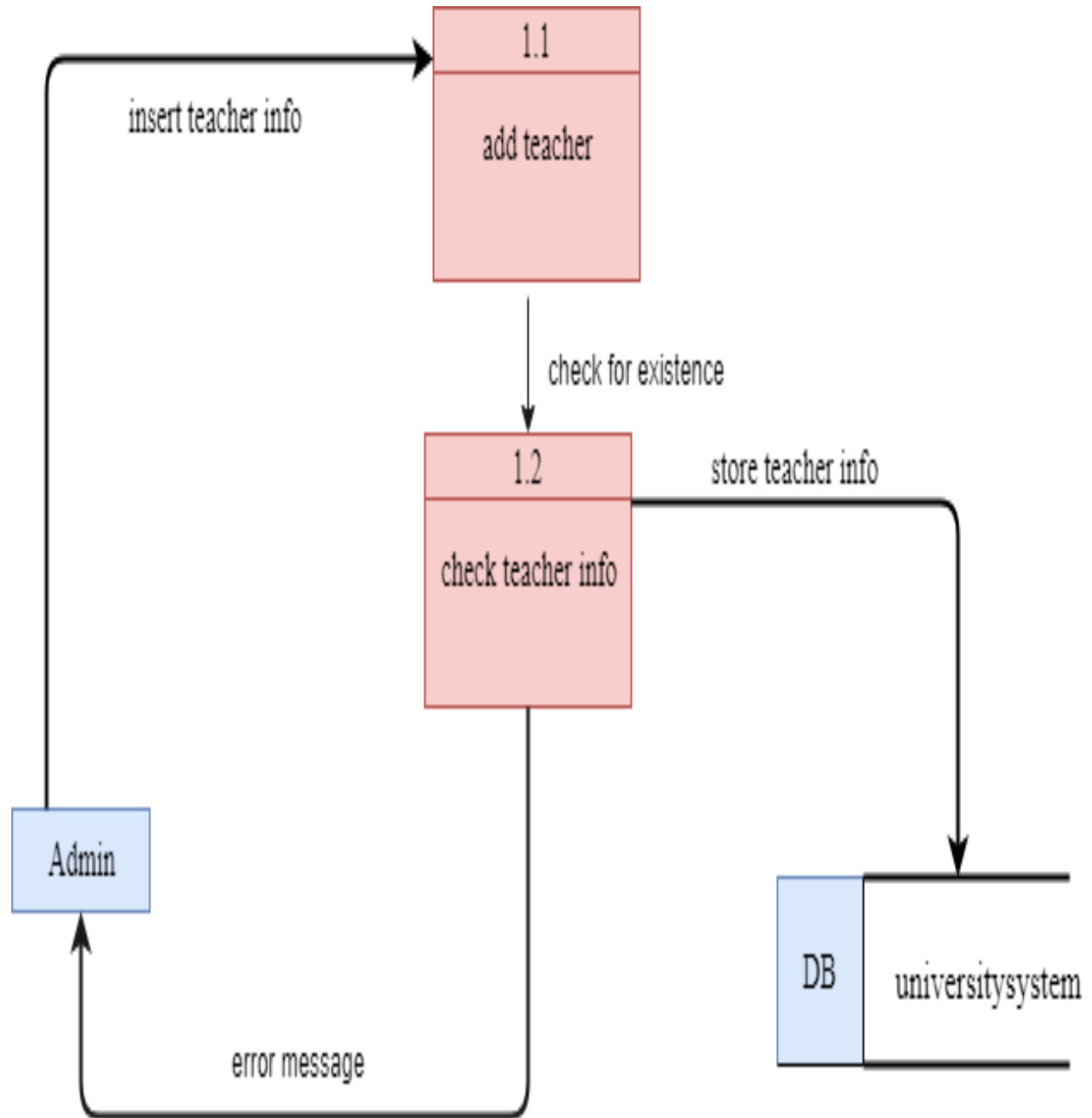


Figure 7.9 Level 2 Process 1 Diagram for Online Feedback System

Level 2 Process 2

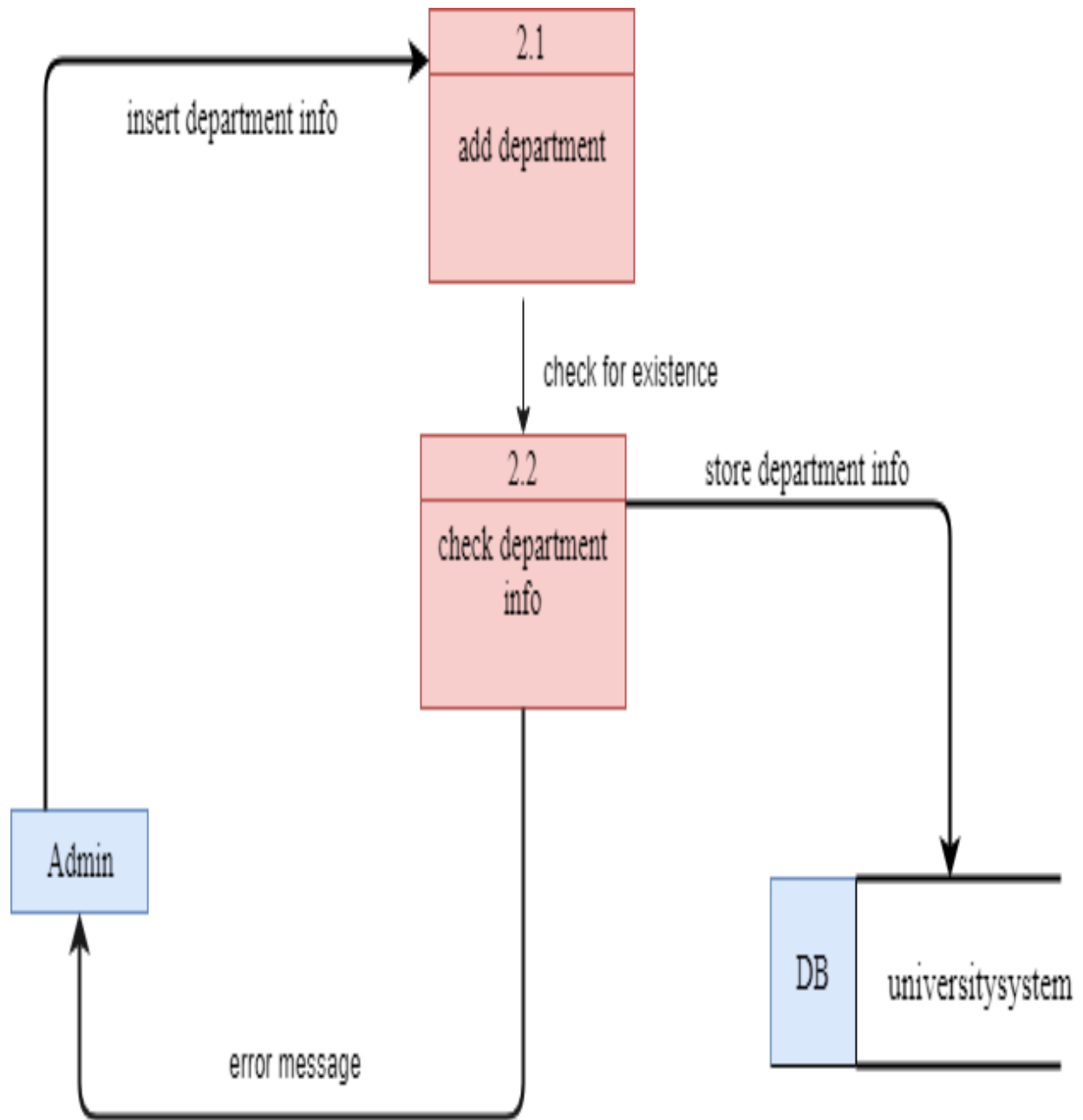


Figure 7.10 Level 2 Process 2 Diagram for Online Feedback System

Level 2 Process 3

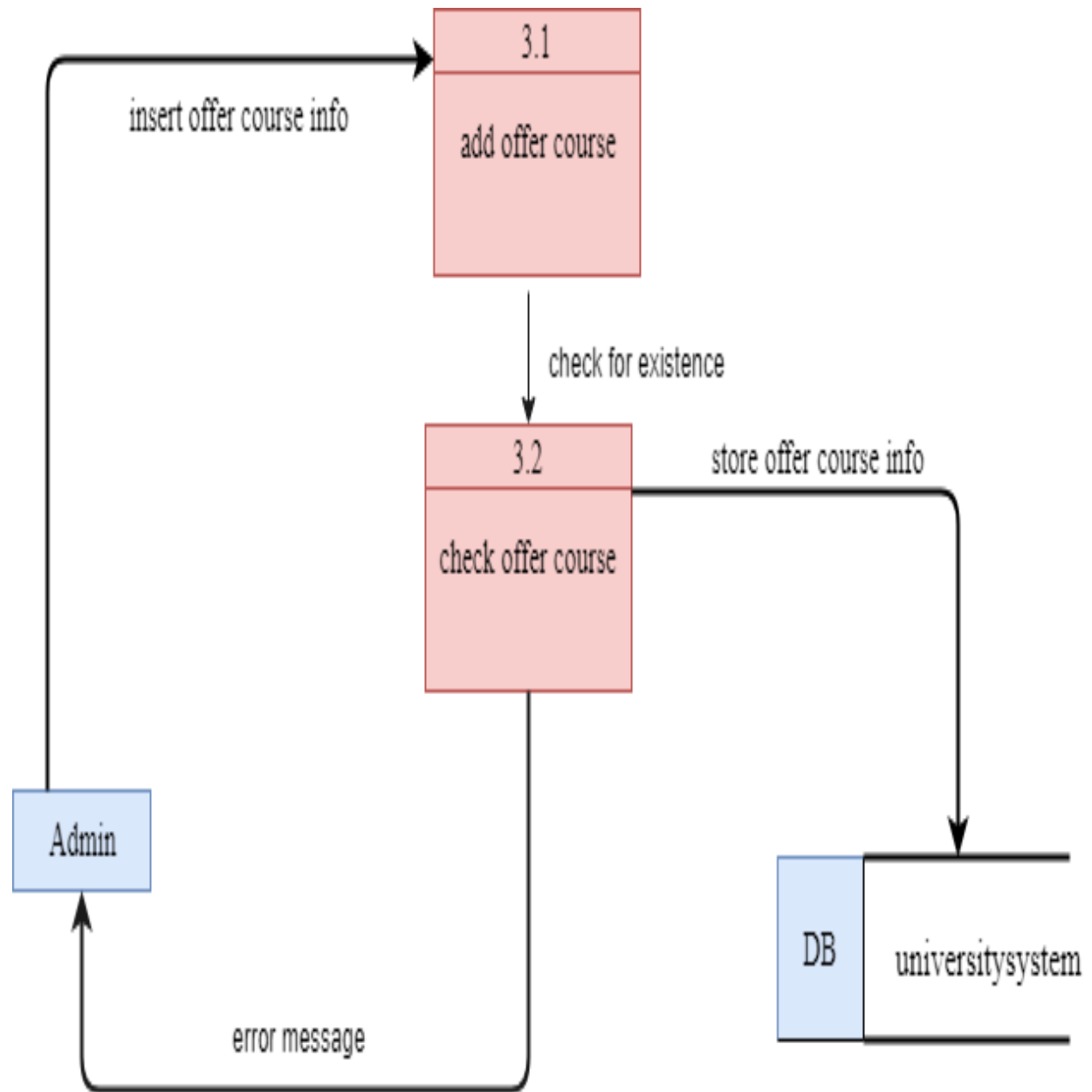


Figure 7.11 Level 2 Process 3 Diagram for Online Feedback System

Level 2 Process 4

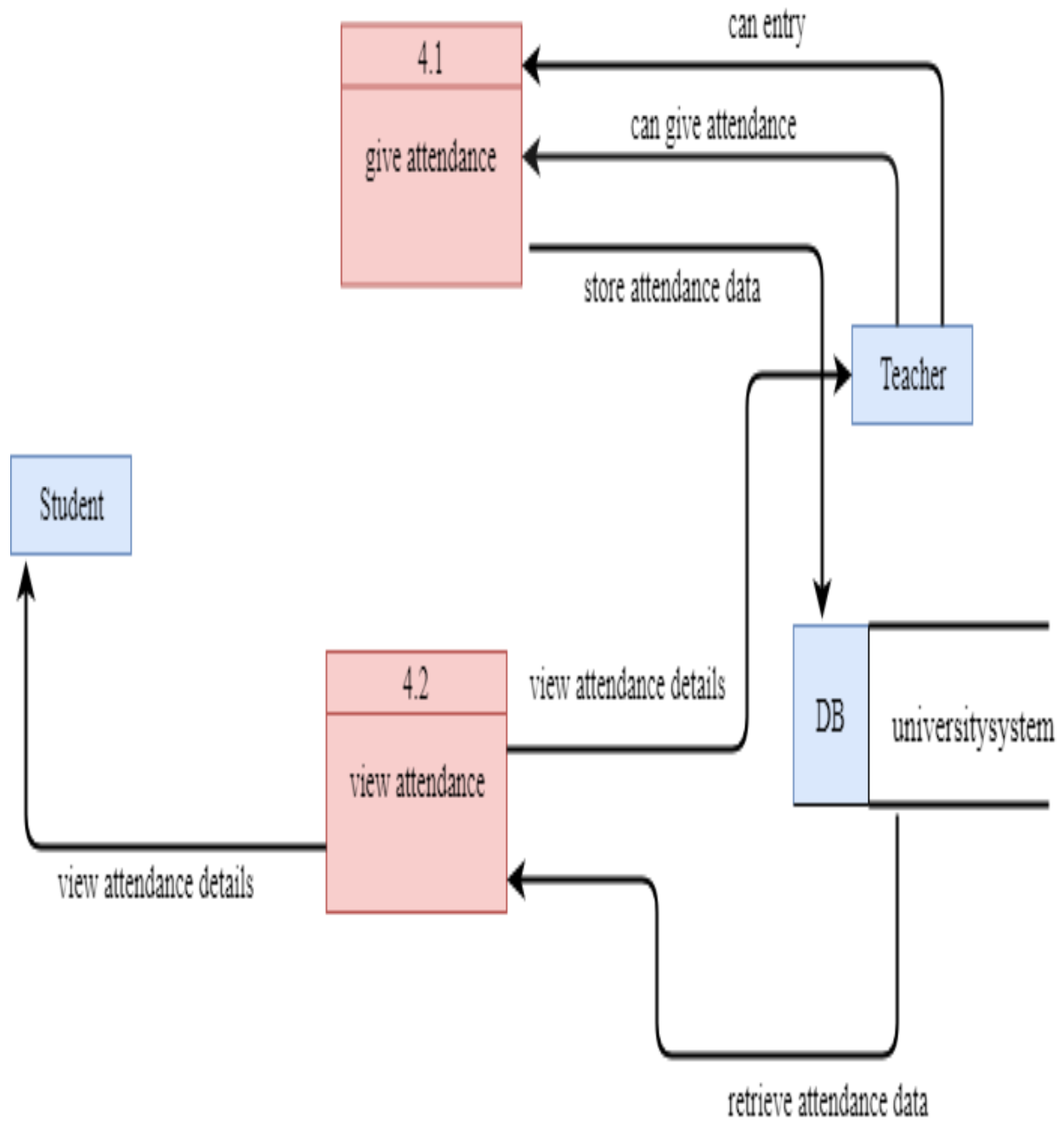


Figure 7.12 Level 2 Process 4 Diagram for Online Feedback System

Level 2 Process 5

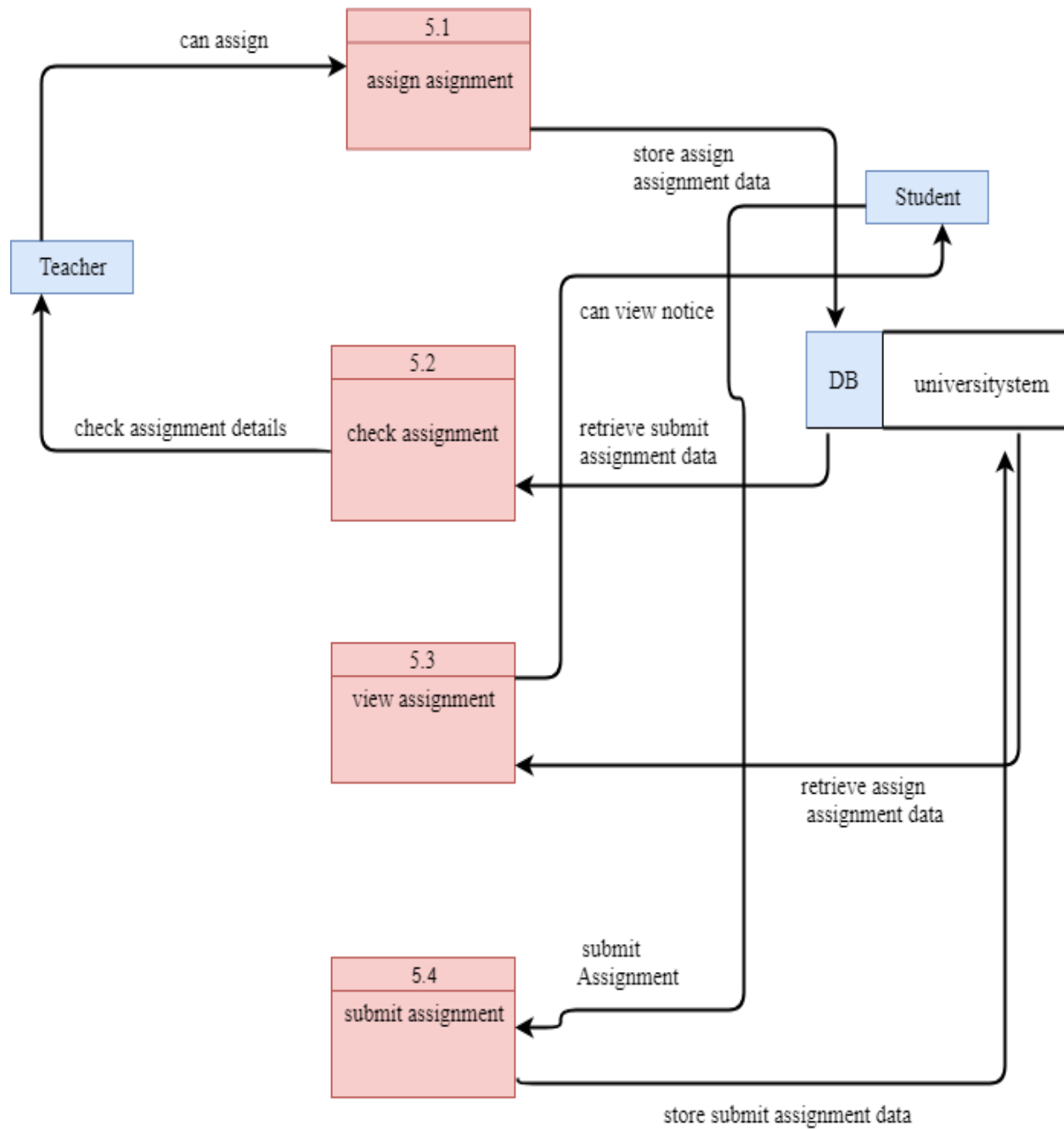


Figure 7.13 Level 2 Process 5 Diagram for Online Feedback System

Level 2 Process 6

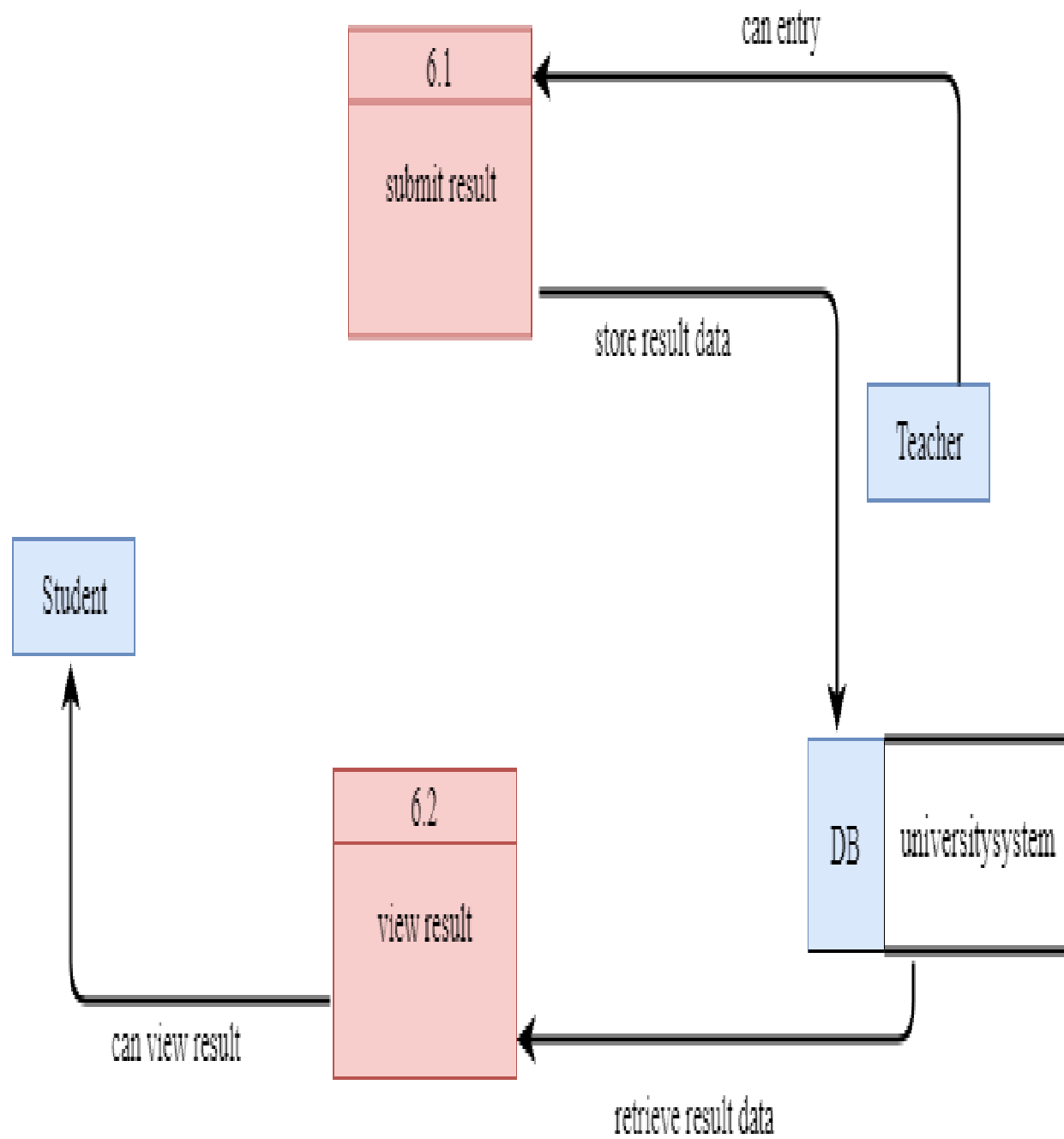


Figure 7.14 Level 2 Process 6 Diagram for Online Feedback System

Level 2 Process 7

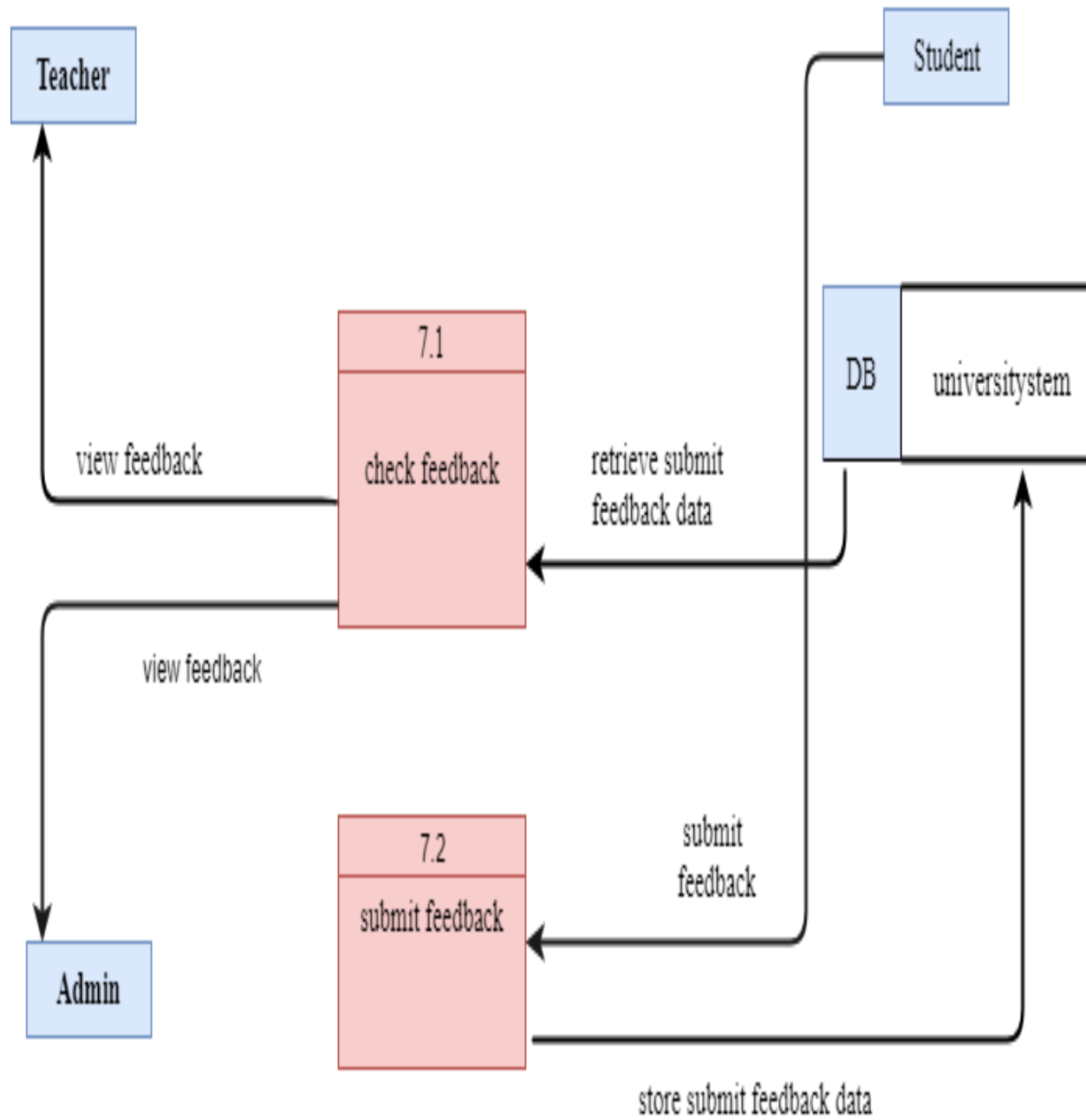


Figure 7.15 Level 2 Process 7 Diagram for Online Feedback System

Level 2 Process 8

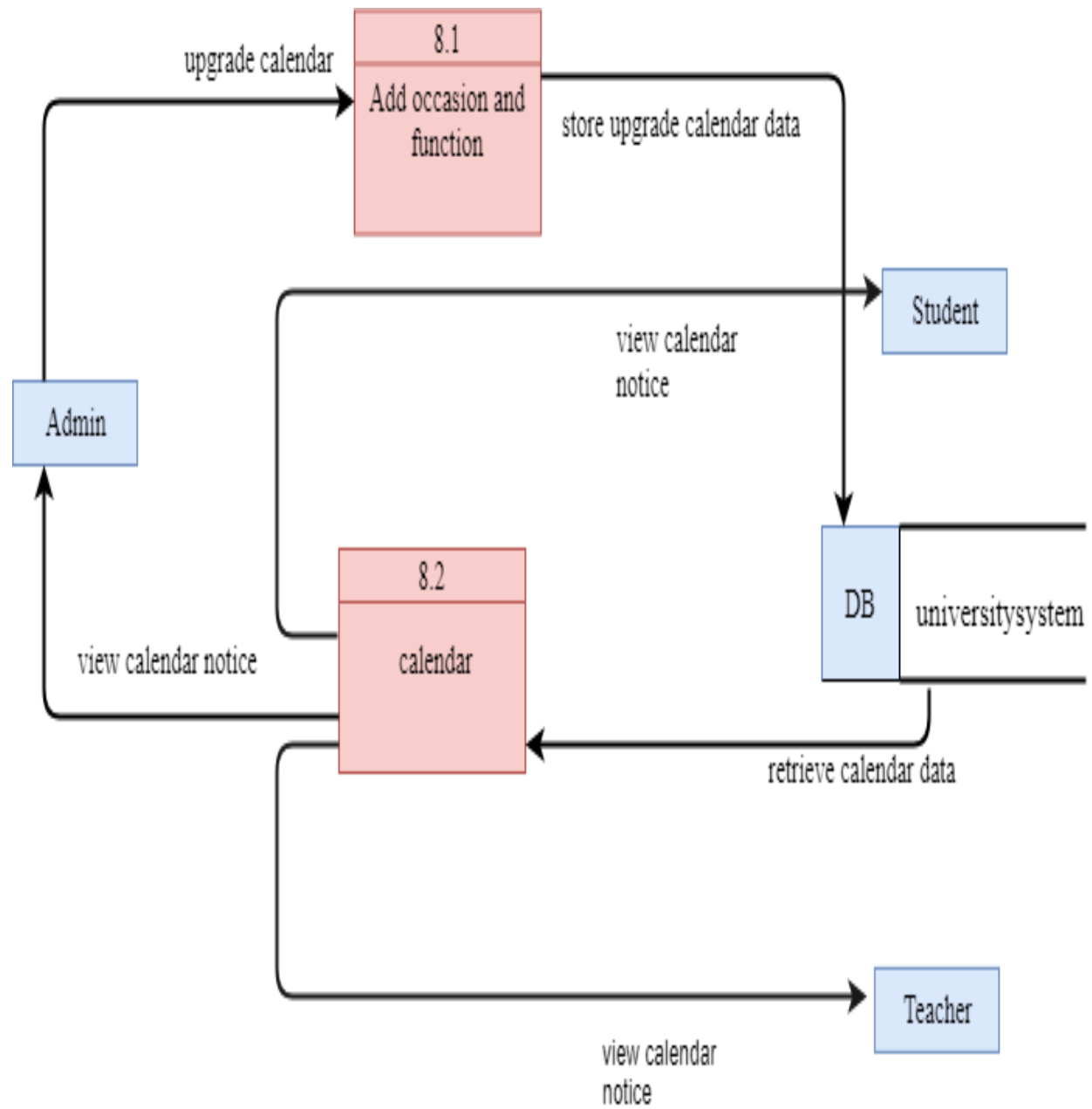


Figure 7.16 Level 2 Process 8 Diagram for Online Feedback System

Level 2 Process 9

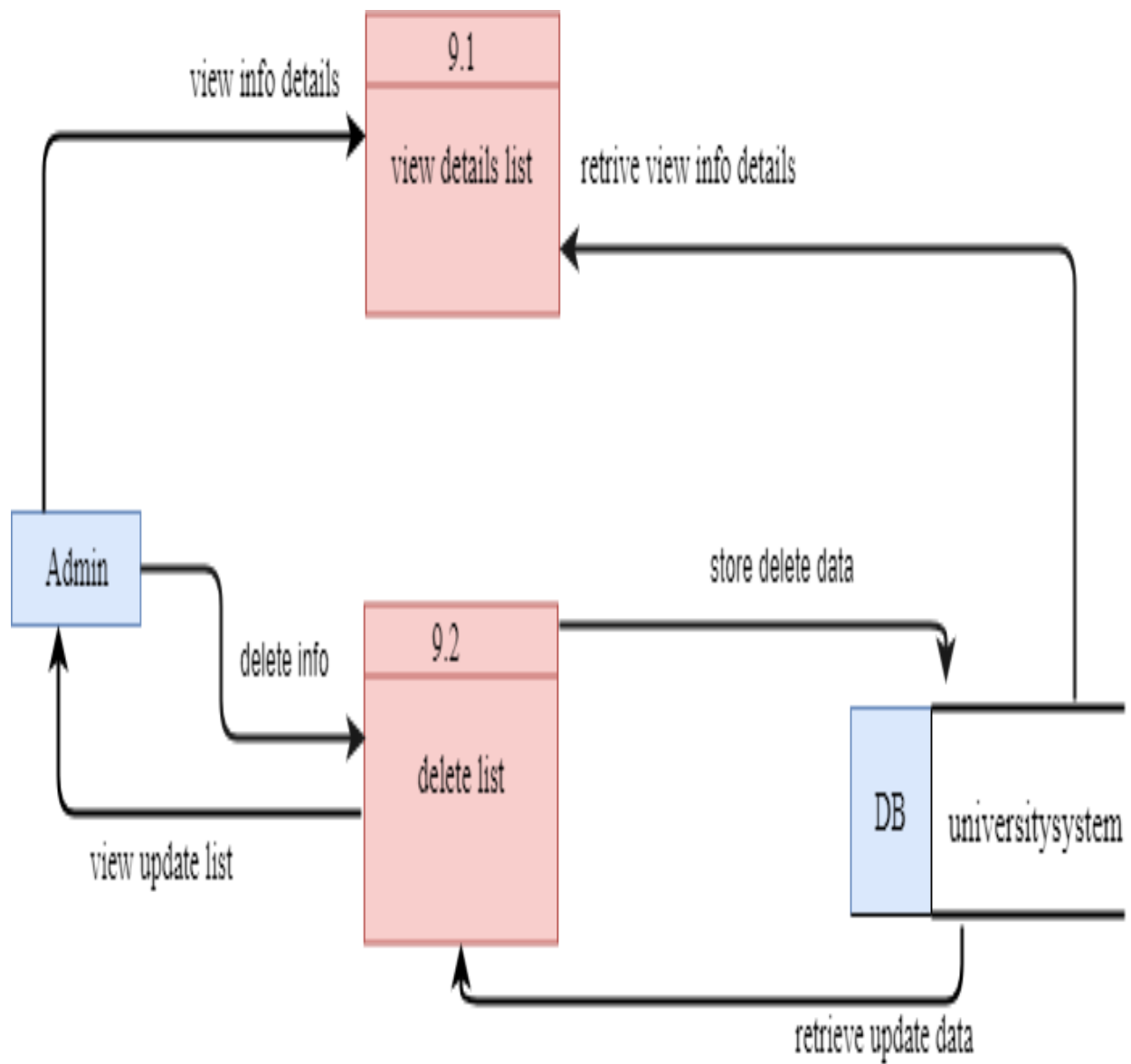


Figure 7.17 Level 2 Process 9 Diagram for Online Feedback System

7.5 Entity Relationship Diagram

An entity-relationship diagram (ERD) is a type of data modelling that shows a graphical representation of objects or concepts within an information system or organization and their relationship to one another. While useful for organizing data that can be represented by a relational structure, an entity relationship diagram can't sufficiently represent semi-structured or unstructured data, and an ERD is unlikely to be helpful on its own in integrating data into a pre-existing information system.

Three main components of an ERD are the entities, which are objects or concepts that can have data stored about them, the relationship between those entities, and the cardinality which defines that relationship in terms of numbers.

Relationship Cardinality

In database design, the cardinality or fundamental principle of one data table with respect to another is a critical aspect. The relationship of one to the other must be precise and exact between each other in order to explain how each table links together.

The three main cardinal relationships are:

- **One-to-one (1:1):** For example, if each customer in a database is associated with one mailing address.
- **One-to-many (1: M):** For example, a single customer might place an order for multiple products. The customer is associated with multiple entities, but all those entities have a single connection back to the same customer.
- **Many-to-many (M: N):** For example, at a company where all call centre agents work with multiple customers, each agent is associated with multiple customers, and multiple customers might also be associated with multiple agents.

ER Diagram for Online Feedback System:

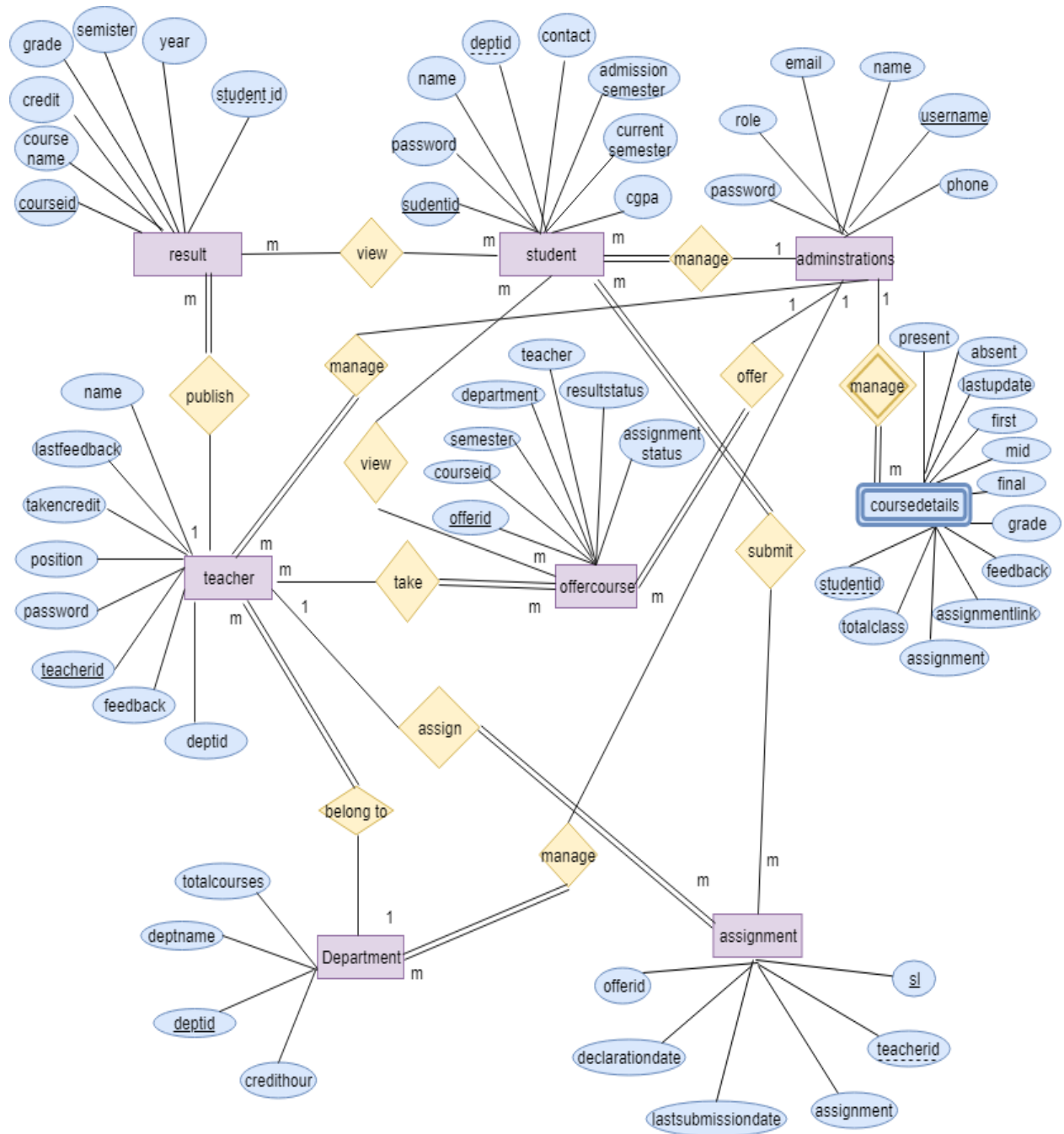


Figure 7.18 Entity Relationship Diagram for Online Feedback System

7.6 Database Schema:

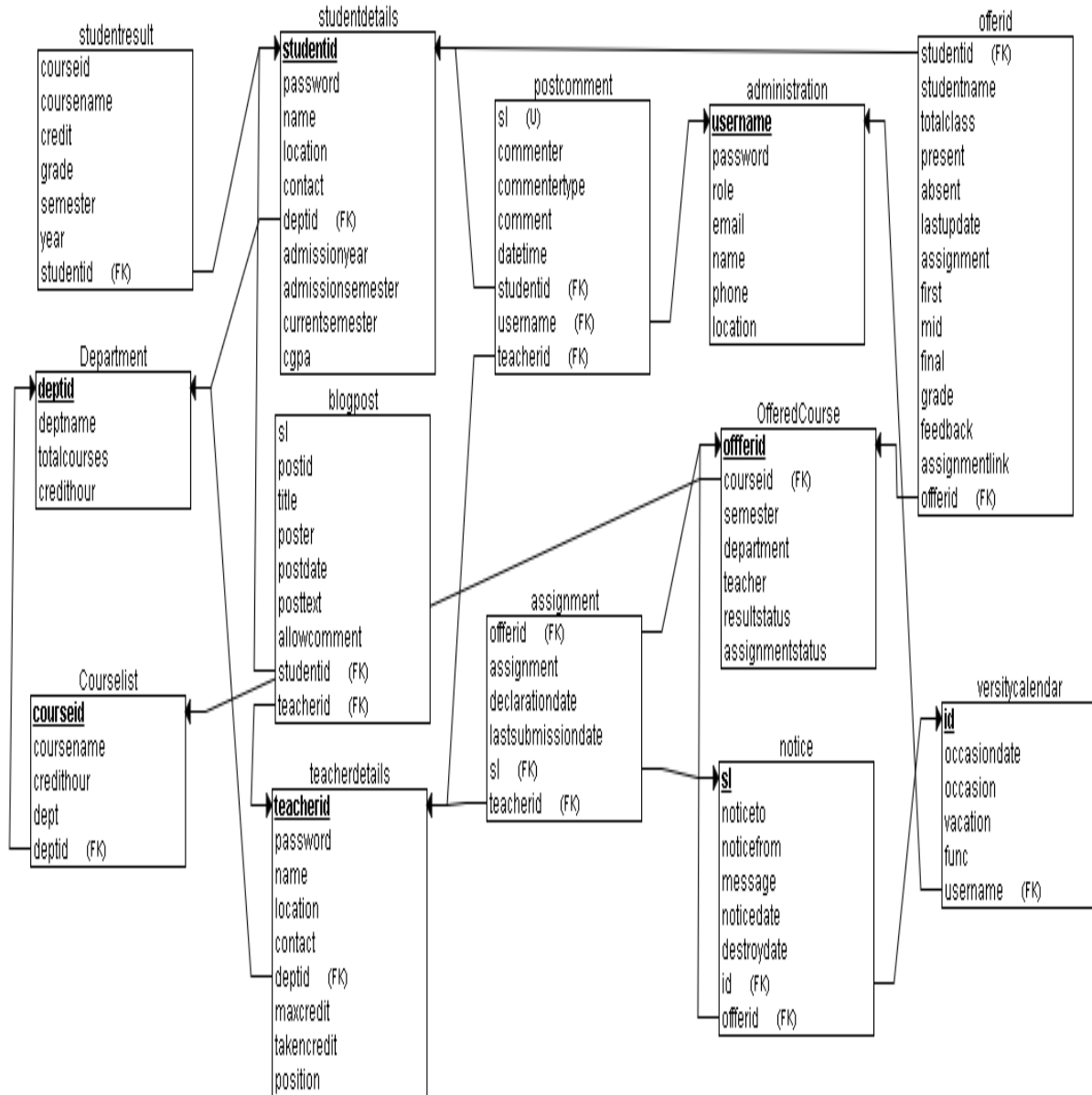


Figure 7.19 Database Schema Diagram for Online Feedback System

7.7 Interface Design

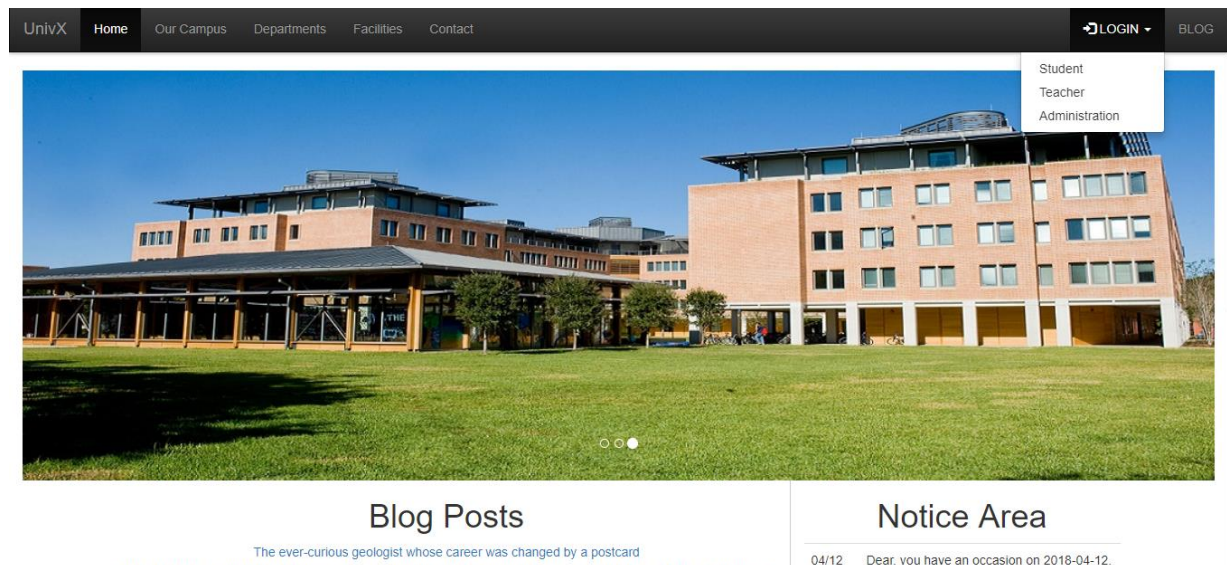


Figure 7.20 User Login Form for Online Feedback System

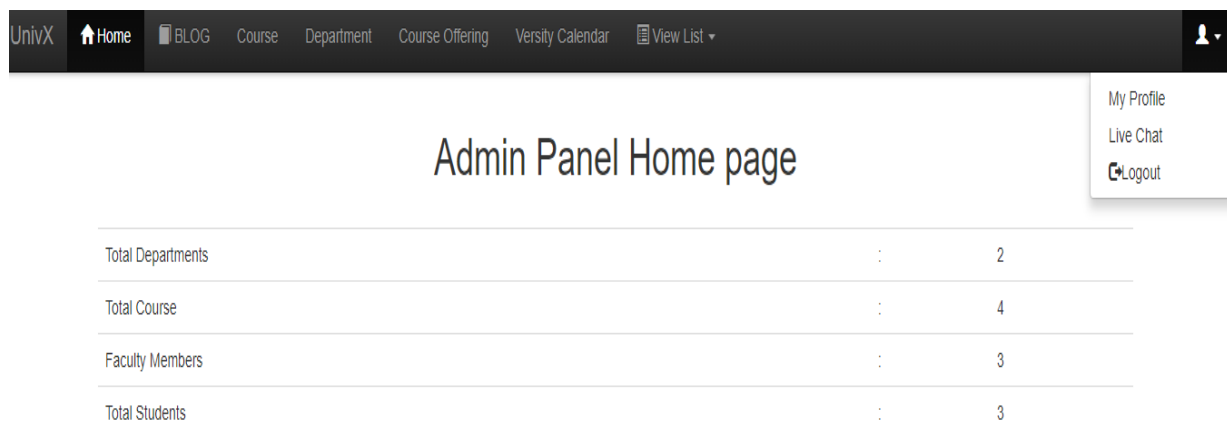


Figure 7.21 Admin Panel for Online Feedback System

Add / EDIT Course Details

Course ID

Course ID

Course Name

Course Name

Department

Select Department

Credit Hour

Credit Hour

SUBMIT

Figure 7.22 Add course Option for Online Feedback System

New Post

Welcome to BLOG

butterfly

israt 2018-04-07 22:24:20

fybjhtdruu

Read More

Delete Post

Old Posts

butterfly

Figure 7.23 Update blog Option for Online Feedback System

UnivX
Home
BLOG
Offered Courses
Versity Calendar

Class Attendance

Serial	Student ID	Student name	Attendance
1	<input type="text" value="18100001"/>	Israt Jahan	<input type="text" value="1"/>
2	<input type="text" value="18100002"/>	korobe	<input type="text" value="1"/>
3	<input type="text" value="18100003"/>	lipa	<input type="text" value="1"/>

submit

Figure 7.24 Class attendance Option for Online feedback System

UnivX
Home
BLOG
Offered Courses
Versity Calendar

You have already assigned an assignment please wait until the submission date is expired

ASSIGNMENT

Assignment Question
Assignment Last Submission Date
Assignment Declaration Date

: what is life?
: 09 Apr
: 08 Apr

Assign

Figure 7.25 Set assignment Option for Online feedback System

Evaluation

Student List

First	20%	Serial	Student ID	Student name	Assignment	First Term	Mid Term	Final Term	Attendance
Mid	25%								
Final	40%	1	18100001	Israt Jahan	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Attendance	10%	2	18100002	korobe	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Assignment	5%	3	18100003	lipa	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Total	100%								

Please put the marks as the table

Fig :7.26 Mark submission option for Online Feedback System

UnivX
[Home](#)
[BLOG](#)
[Course](#)
[Department](#)
[Course Offering](#)
[Versity Calendar](#)
[View List](#)

My Profile
Live Chat
Logout

YEAR WILL BE STORED. SELECT THE DATES CORRECTLY
Duplicate dates won't be accepted

Select Date	Occasion	Vacation	Function	Action
<input type="text" value="mm/dd/yyyy"/>	<input type="text"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="button" value="submit"/>

Serial	Date	Occasion	Vacation	Function	Action
1	12th Apr, 2018	Anything special	YES	NO	<input type="button" value="UPDATE"/> <input type="button" value="DELETE"/>

Figure 7.27 Update Calendar Option for Online Feedback System

Course Code	Instructor	Assignment	Course Performance	Feedback
csc183	RubinaAkht	No Assignment	Course Details	Not Available
csc183	shajidshah	No Assignment	Course Details	Not Available

Figure 7.28 Student course Option for Online Feedback System

UnivX
Home
Courses
Result
Versity Calendar
Online Support
BLOG

Marks

Assignment	:	0
Attendance	:	0
First Term	:	0
Mid Term	:	0
Final Term	:	0

Attendance

Total Classes	:	0
Present Classes	:	0
Absent Classes	:	

Return

Figure 7.29 Student Course Performance Option for Online Feedback System

Assignment's

Serial	Student ID	Name	Action
18100001	1	Israt Jahan	Not Submitted
18100002	2	korobe	Not Submitted
18100003	3	lipa	Not Submitted

Figure 7.30 View Assignment option for Teacher for Online Feedback System

Result Sheet

Course ID	Course Name	Credit Hour	Grade	Semester	Year
-----------	-------------	-------------	-------	----------	------

Figure 7.31 View result Form for Student for Online Feedback System

Course Code	Instructor	Assignment	Course Performance	Feedback
csc183	RubinaAkht	No Assignment	Course Details	Not Available
csc183	shajidshah	No Assignment	Course Details	Not Available

Figure 7.32 Course view Form for Student for Online Feedback System

UnivX
Home
BLOG
Offered Courses
Versity Calendar

Class Attendance

Serial	Student ID	Student name	Attendance
1	<input type="text" value="18100001"/>	Israt Jahan	<input type="text" value="1"/>
2	<input type="text" value="18100002"/>	korobe	<input type="text" value="1"/>
3	<input type="text" value="18100003"/>	lipa	<input type="text" value="1"/>

submit

Figure 7.33 Class Attendance Form for Teacher for Online Feedback System

Users

Admin

Rubina Akhter

Shajid Shahrir

18100001

Welcome to Online Support


Figure 7.34 Online Support Form Student for Online Feedback System

UnivX
Home
BLOG
Offered Courses
Versity Calendar

Teacher Profile

Name	:	RUBINA AKHTER
Position	:	LECTURER
Department	:	CSE
Maximum Credit Hour	:	16
ID	:	rubinaakht
PassWord	:	123456
Contact No	:	12346564
Location	:	Dhaka

Average Rating



Recommended
100%

Teaching Quality : 100%
Teacher Attendance : 100%
Teacher Grading : 100%
Teacher's Behavior : 100%
Class Material : 100%

Course Reviews

SL	No. of Students	Student FeedBack
csc101	0	Teaching Quality : 0% Teacher Attendance : 0% Teacher Grading : 0% Teacher's Behavior : 0% Class Material : 0% Recommendation : 0%

localhost/universitysystem/teacher/tea

Rights reserved ©Copyright by University X

Designed & Developed by Israt Jahan

Figure 7.35 Feedback Form for Online Feedback System

7.7 Database Design

<input type="checkbox"/> administration	★	Browse	Structure	Search	Insert	Empty	Drop	2 InnoDB	utf8_general_ci	48 KiB	-
<input type="checkbox"/> assignment	★	Browse	Structure	Search	Insert	Empty	Drop	2 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> blogpost	★	Browse	Structure	Search	Insert	Empty	Drop	1 InnoDB	utf8_general_ci	32 KiB	-
<input type="checkbox"/> chat	★	Browse	Structure	Search	Insert	Empty	Drop	0 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> courselist	★	Browse	Structure	Search	Insert	Empty	Drop	4 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> departments	★	Browse	Structure	Search	Insert	Empty	Drop	2 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> notice	★	Browse	Structure	Search	Insert	Empty	Drop	6 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> offeredcourse	★	Browse	Structure	Search	Insert	Empty	Drop	2 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> ofr1	★	Browse	Structure	Search	Insert	Empty	Drop	3 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> ofr2	★	Browse	Structure	Search	Insert	Empty	Drop	3 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> post1	★	Browse	Structure	Search	Insert	Empty	Drop	0 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> s18100001	★	Browse	Structure	Search	Insert	Empty	Drop	0 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> s18100002	★	Browse	Structure	Search	Insert	Empty	Drop	0 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> s18100003	★	Browse	Structure	Search	Insert	Empty	Drop	0 InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> studentdetails	★	Browse	Structure	Search	Insert	Empty	Drop	3 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> teacherdetails	★	Browse	Structure	Search	Insert	Empty	Drop	3 InnoDB	utf8_general_ci	16 KiB	-
<input type="checkbox"/> versitycalendar	★	Browse	Structure	Search	Insert	Empty	Drop	1 InnoDB	utf8_general_ci	32 KiB	-
17 tables	Sum							32 InnoDB	latin1_swedish_ci	336 KiB	0 B

Figure 7.36 List of Tables in Database

Server: 127.0.0.1 » Database: universitysystem » Table: administration

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	username	varchar(30)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 2	password	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 3	role	tinytext	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 4	email	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 5	name	tinytext	utf8_general_ci		Yes	NULL			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 6	phone	int(15)			Yes	NULL			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 7	location	tinytext	utf8_general_ci		Yes	NULL			Change Drop Primary Unique Index Spatial Fulltext More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

[Remove from central columns](#)

Figure 7.37 Database Table for administration

Server: 127.0.0.1 » Database: universitysystem » Table: assignment

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	ofrid	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial More
<input type="checkbox"/> 2	assignment	longtext	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial More
<input type="checkbox"/> 3	lastsubmission	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial More
<input type="checkbox"/> 4	declarationdate	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial More

☐ Check all
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[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

[Remove from central columns](#)

Figure 7.38 Database Table for assignment

Server: 127.0.0.1 » Database: universitysystem » Table: blogpost

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	sl	int(11)			No	None		AUTO_INCREMENT	Change Drop
<input type="checkbox"/> 2	postid	varchar(45)	utf8_general_ci		No	None			Change Drop
<input type="checkbox"/> 3	posttitle	text	utf8_general_ci		No	None			Change Drop
<input type="checkbox"/> 4	poster	varchar(45)	utf8_general_ci		No	None			Change Drop
<input type="checkbox"/> 5	postdate	timestamp		on update CURRENT_TIMESTAMP	No	CURRENT_TIMESTAMP		ON UPDATE CURRENT_TIMESTAMP	Change Drop
<input type="checkbox"/> 6	posttext	longtext	utf8_general_ci		No	None			Change Drop
<input type="checkbox"/> 7	allowcomment	tinyint(1)			No	1			Change Drop

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[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

Figure 7.39 Database Table for blogpost

Server: 127.0.0.1 » Database: universitysystem » Table: chat

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	sl	int(11)			No	None		AUTO_INCREMENT	Change Drop
<input type="checkbox"/> 2	touser	varchar(15)	latin1_swedish_ci		No	None			Change Drop
<input type="checkbox"/> 3	fromuser	varchar(15)	latin1_swedish_ci		No	None			Change Drop
<input type="checkbox"/> 4	message	text	latin1_swedish_ci		No	None			Change Drop
<input type="checkbox"/> 5	messagetime	timestamp		on update CURRENT_TIMESTAMP	No	CURRENT_TIMESTAMP		ON UPDATE CURRENT_TIMESTAMP	Change Drop

[Check all](#)
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[Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

Figure 7.40 Database Table for chat

Server: 127.0.0.1 » Database: universitysystem » Table: departments

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	deptid	varchar(5)	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 2	deptname	tinytext	utf8_general_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 3	totalcourses	int(11)			No	None			Change Drop Primary Unique Index Spatial Fulltext More
<input type="checkbox"/> 4	totalcredithour	int(11)			No	None			Change Drop Primary Unique Index Spatial Fulltext More

☐ Check all
 With selected:
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[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

[Remove from central columns](#)

[Print](#)
[Propose table structure](#)
[Track table](#)
[Move columns](#)
[Improve table structure](#)

Figure 7.41 Database Table for departments

Server: 127.0.0.1 » Database: universitysystem » Table: notice

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	sl	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index More
<input type="checkbox"/> 2	noticeto	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index More
<input type="checkbox"/> 3	noticefrom	varchar(45)	utf8_general_ci		No	None			Change Drop Primary Unique Index More
<input type="checkbox"/> 4	message	text	utf8_general_ci		No	None			Change Drop Primary Unique Index More
<input type="checkbox"/> 5	noticedate	varchar(6)	utf8_general_ci		No	None			Change Drop Primary Unique Index More
<input type="checkbox"/> 6	destroydate	varchar(6)	utf8_general_ci		No	None			Change Drop Primary Unique Index More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Add to central columns](#)

[Remove from central columns](#)

Figure 7.42 Database Table for notice

Server: 127.0.0.1 » Database: universitysystem » Table: teacherdetails

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
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#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	teacherid	varchar(10)	utf8_general_ci		No	None			
<input type="checkbox"/> 2	password	varchar(25)	utf8_general_ci		No	None			
<input type="checkbox"/> 3	name	tinytext	utf8_general_ci		No	None			
<input type="checkbox"/> 4	location	tinytext	utf8_general_ci		Yes	NULL			
<input type="checkbox"/> 5	contact	int(11)			Yes	NULL			
<input type="checkbox"/> 6	department	varchar(5)	utf8_general_ci		No	None			
<input type="checkbox"/> 7	maxcredit	int(11)			No	None			
<input type="checkbox"/> 8	takencredit	int(11)			No	None			
<input type="checkbox"/> 9	position	tinytext	utf8_general_ci		No	None			
<input type="checkbox"/> 10	feedback	varchar(30)	utf8_general_ci		No	5,5,5,5,5			
<input type="checkbox"/> 11	lastfeedback	varchar(30)	utf8_general_ci		No				

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Figure 7.43 Database Table for Teacher details

Server: 127.0.0.1 » Database: universitysystem » Table: varsitycalendar

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#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	
<input type="checkbox"/> 2	occasiondate	date			No	None			
<input type="checkbox"/> 3	occasion	text	utf8_general_ci		No	None			
<input type="checkbox"/> 4	vacation	tinyint(1)			No	None			
<input type="checkbox"/> 5	func	tinyint(1)			No	None			

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[Delete](#) [Remove table structure](#) [Table table](#) [Move columns](#) [Improve table structure](#)

Figure 7.44 Database Table for Varsity calendar

