INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"STUDENT'S ONLINE PORTAL"

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Submitted By:

Group No: 75

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Project Guide

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1. INTRODUCTION.

Introduction:

Portal is a web system that provides the function and features to authenticate and identify the users and provide then with easy, intuitive, personalized and user-customizable web-interface for facilitating access to information and services that are of primary relevance and interests to the users. Student Portal is nothing but a portal which thinks students as the main target users & provides so many useful services to students at a single place & through a single interface but in customized form.

Problem Statement:

There are many problems found in the todays portal system. The problems created in the existing system enforced us to develop the new system which minimize the problem of the existing system. These problems are Now a days the system in college like entering papers details in only department level of papers data is done manually which consumes lots of time. Its application depends works on minimum peoples that is department level.

Aims and Objective:

The main purpose of this system, is to reduce the consumption of time during maintaining the records of college. Separate divisions are providing to maintain the records of teachers, students. Our System also procure an easy way not only to automate all functionalities of a college, but also to procure full functional reports to top management of college with the finest of details about any phase of college. In other words, our college portal has, following objectives:

- Simple database is maintained.
- Easy operations for the operator of the system.
- User interfaces are user accommodating and attractive; it takes very less time for the operator to use the system.
- The aim is to design a college website which implant update information of the college that should improve expertness of college record management.

2.OVERALL DESCRIPTION.

Proposed Methodology:

The objective of Student Portal is to provide an online web-based solution for academic use. In this application all data will be available such as Assignments, Notes, Exam links, Daily schedules, Google Classroom links T&P data, etc. It is Easy to use. In future it helps our students and staff to organize and access information about all aspect Assignments, Exams, T&P, etc. This website provides a way for student and faculty to communicate to each other, this will solve all drawbacks of manual process, increase the efficiency and speed up all works to be completed. At college managements side a person can view the most important student and staff data. Every student and staff will provide with unique login id and password. All the data will be at least once the validated from the college database. Hence this process also helps in maintaining consistency and integrity. The student and staff acquaintance system that helps to users can readily store the students and staff information through online. The user can readily store and retrieve the data by department wise through online. This system helps the user to generate the dynamic legwork. Thus the user can convenient to interact with the system to readily and accessibility the resources through internet or intranet.

Operating Environment:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 10, Linux 6

Database: MySQL

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7, Linux

Design and Implementation Constraints:

- The application will use JavaScript, jQuery and CSS as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- SMTP protocol is used for Email communication.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Student's Online Portal is a web-based application, internet connection must be established.
- The Student's Online Portal will be used on PCs and will function via internet or intranet in any web browser.

3. Requirements Specification.

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.

This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

Web Browser:

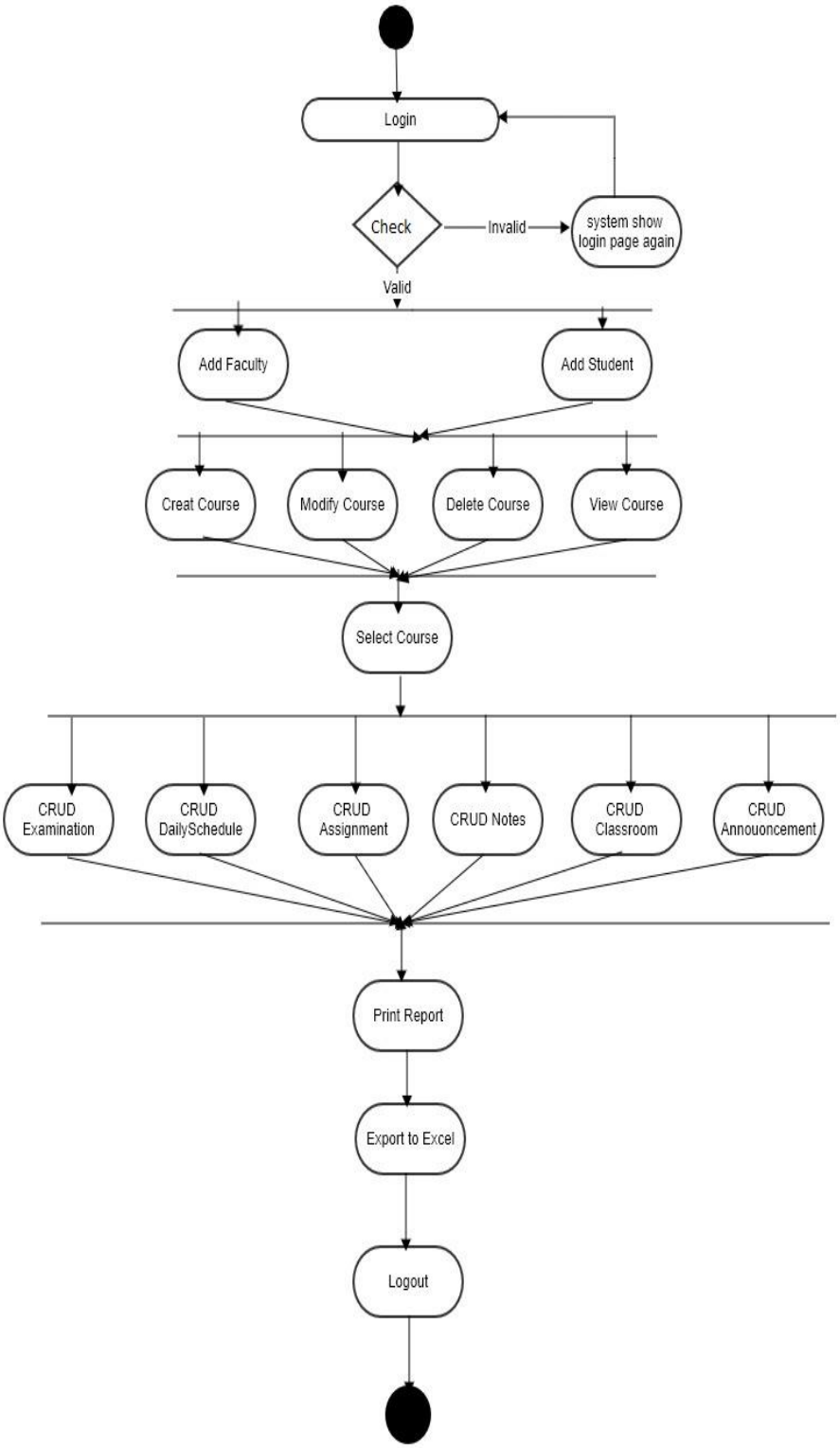
The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

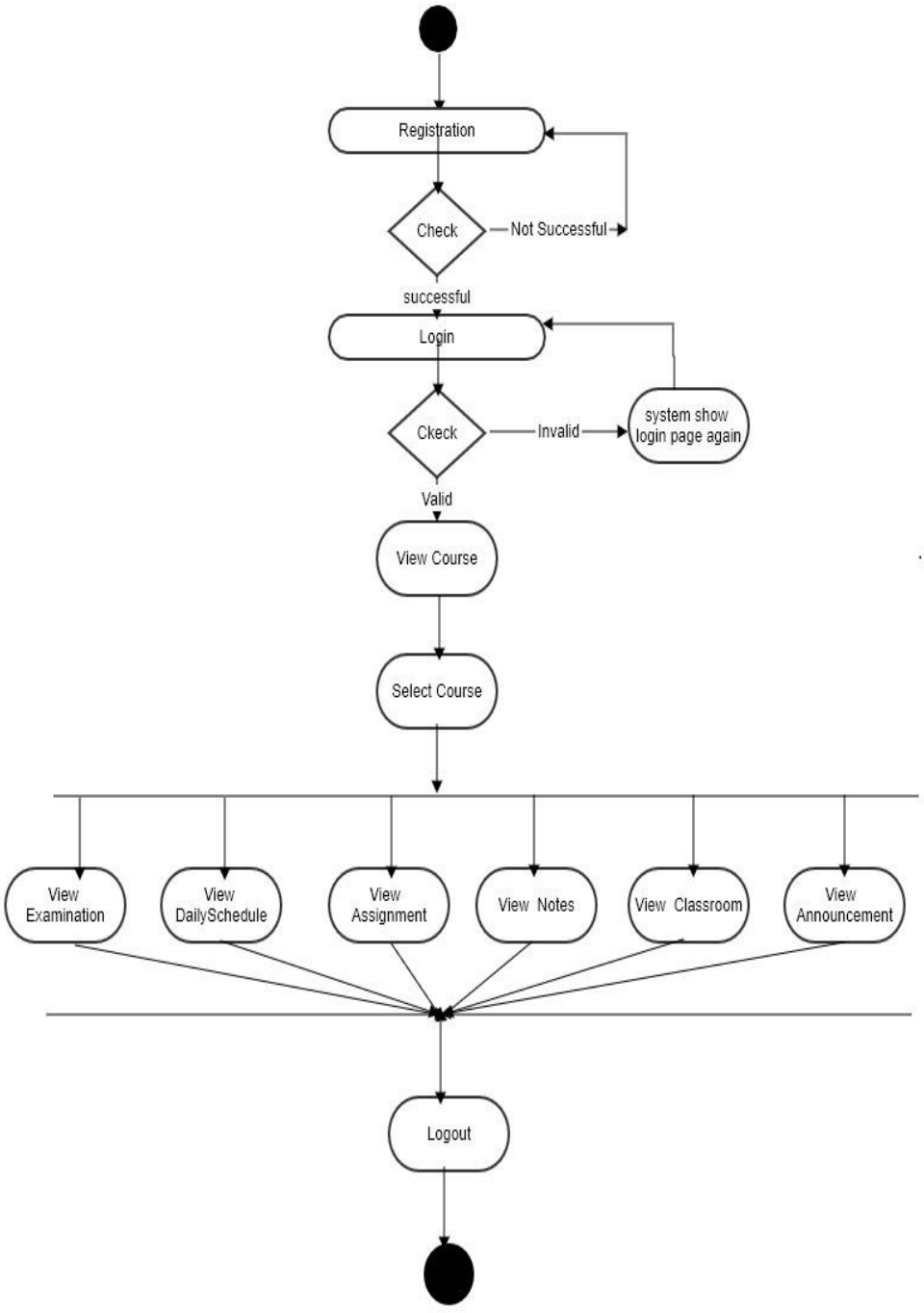
- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

4. System Diagrams.

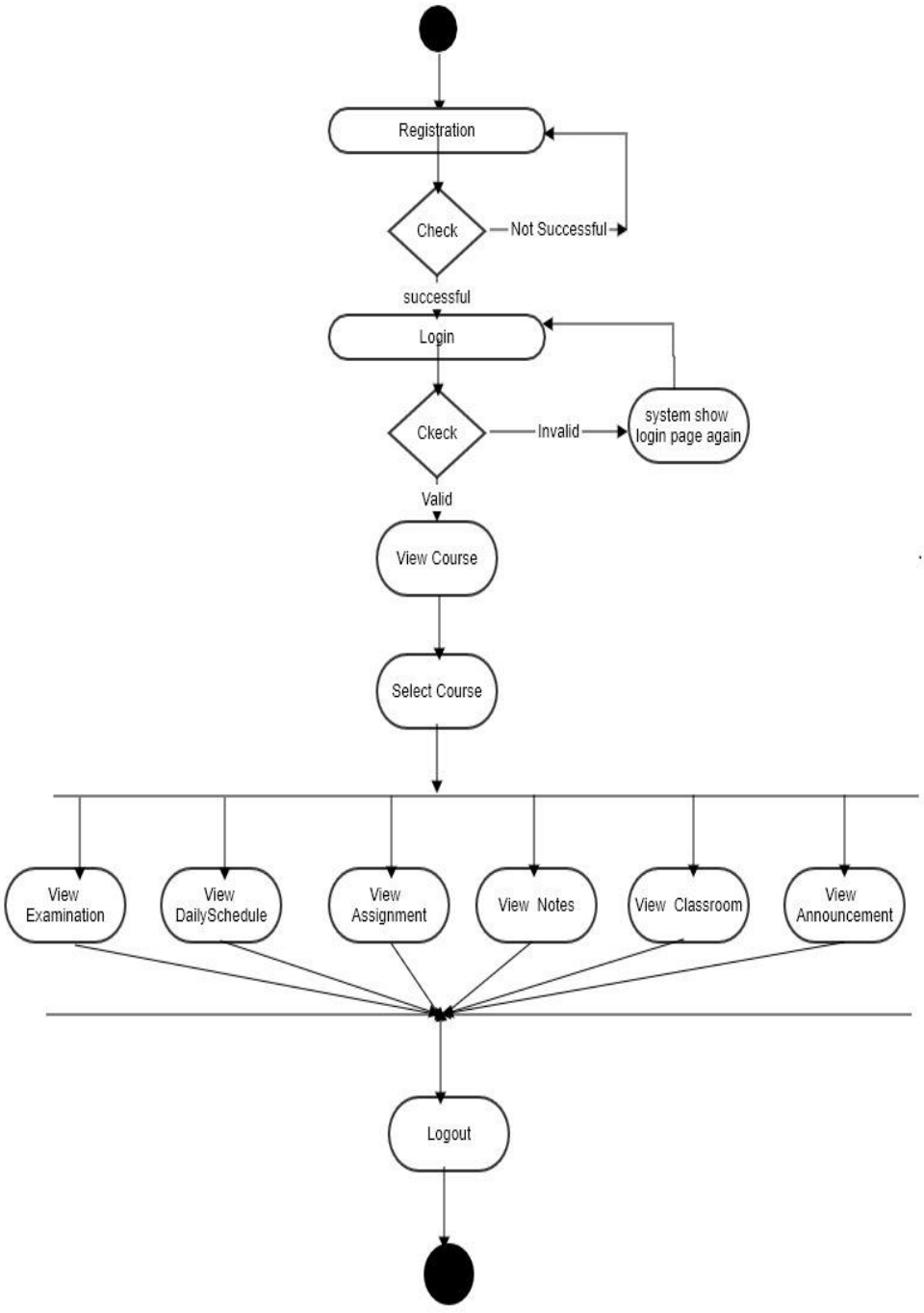
- **Activity Diagram:**
  - Admin Activity:



- Student Activity:

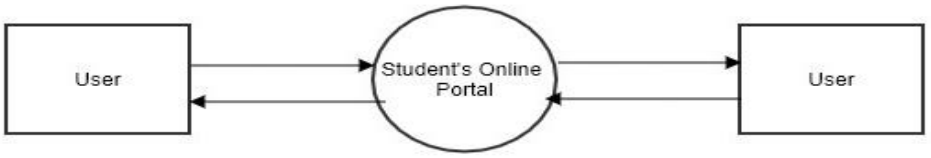


- Faculty Activity:

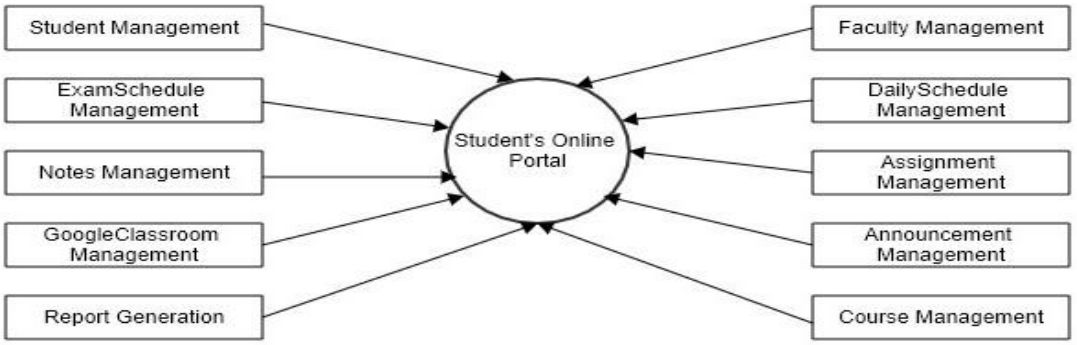


- **Data Flow diagram:**

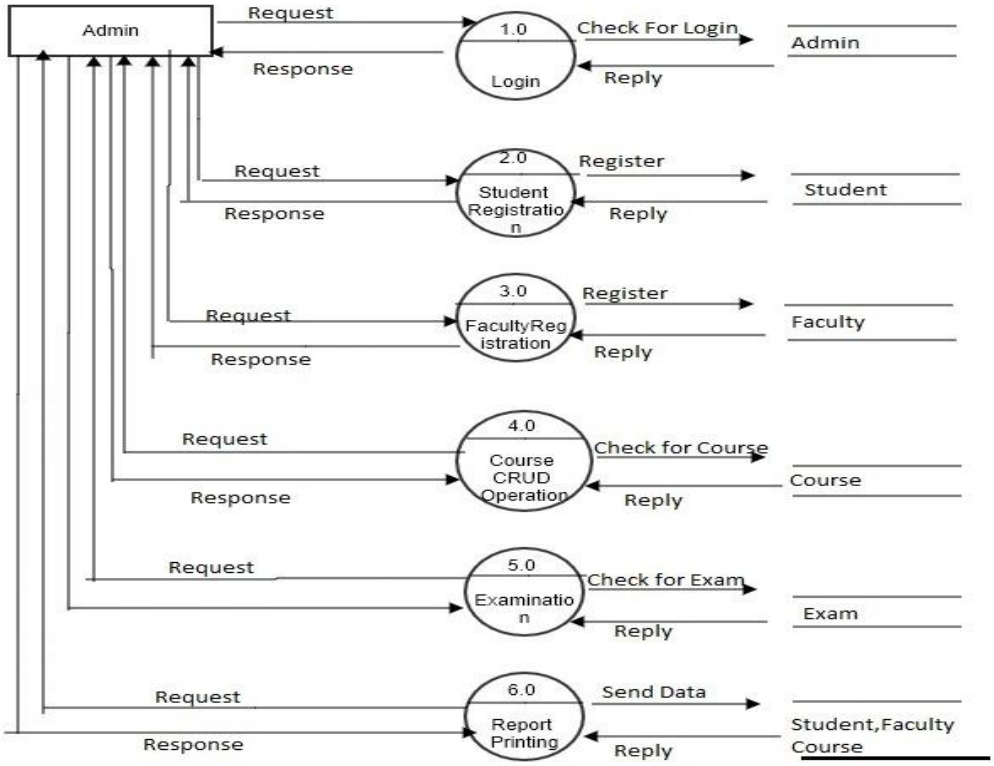
ZERO LEVEL DFD



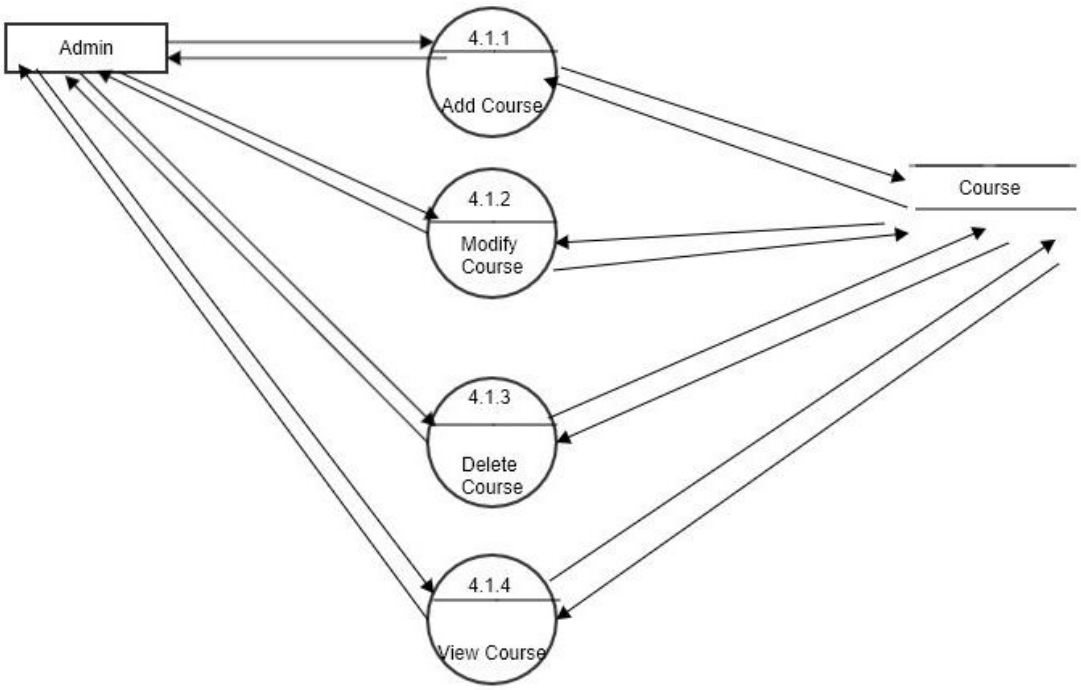
FIRST LEVEL DFD



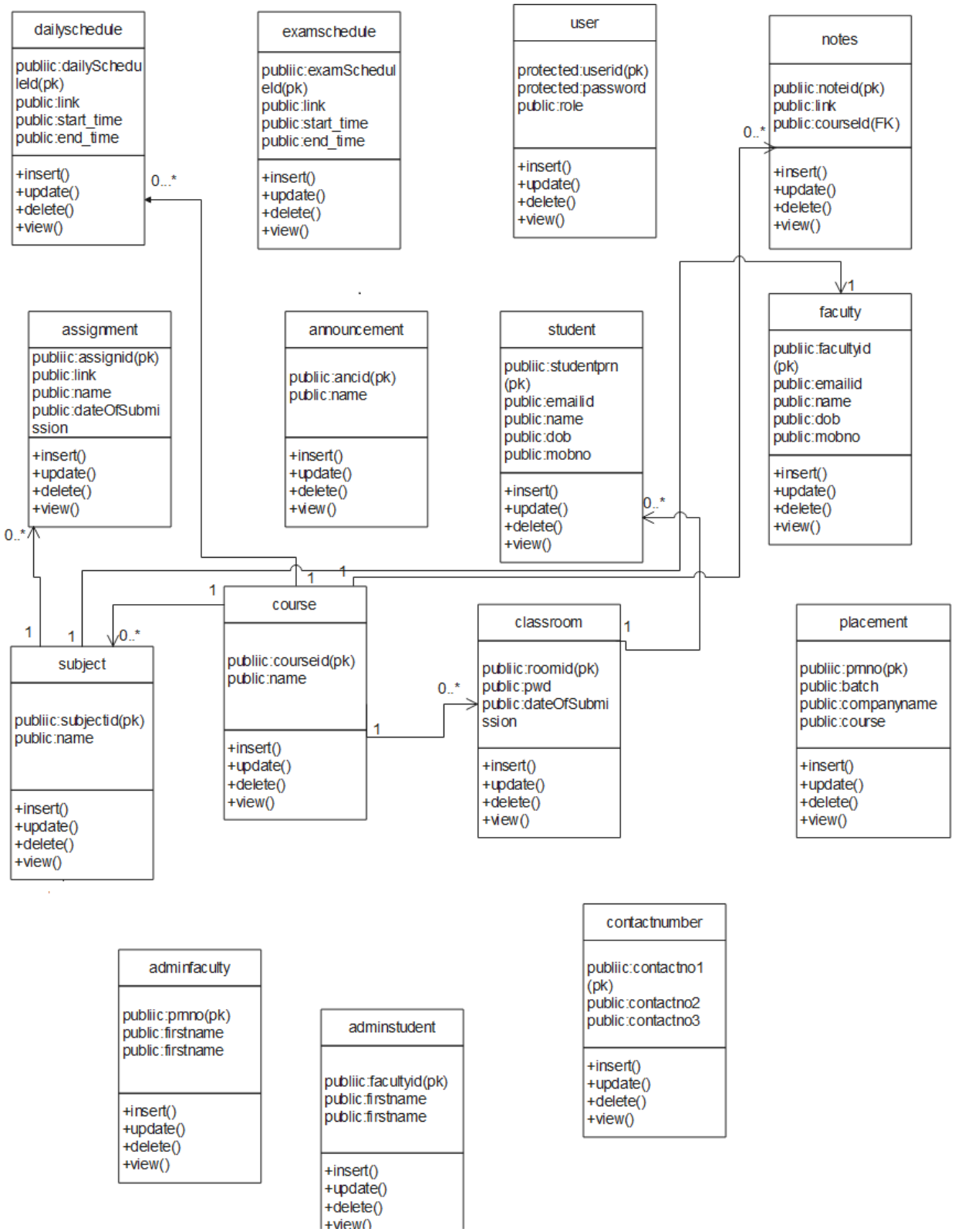
SECOND LEVEL DFD



COURSE DFD

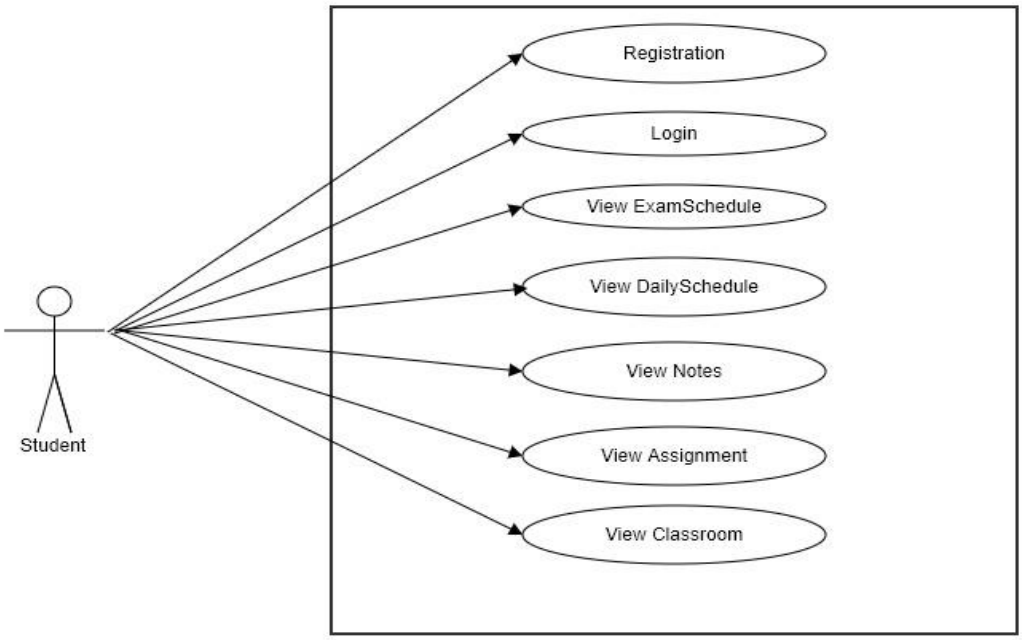

Admin
4.1.1
Add Course
4.1.2
Modify Course
4.1.3
Delete Course
4.1.4
View Course
Course

- **Class Diagram:**

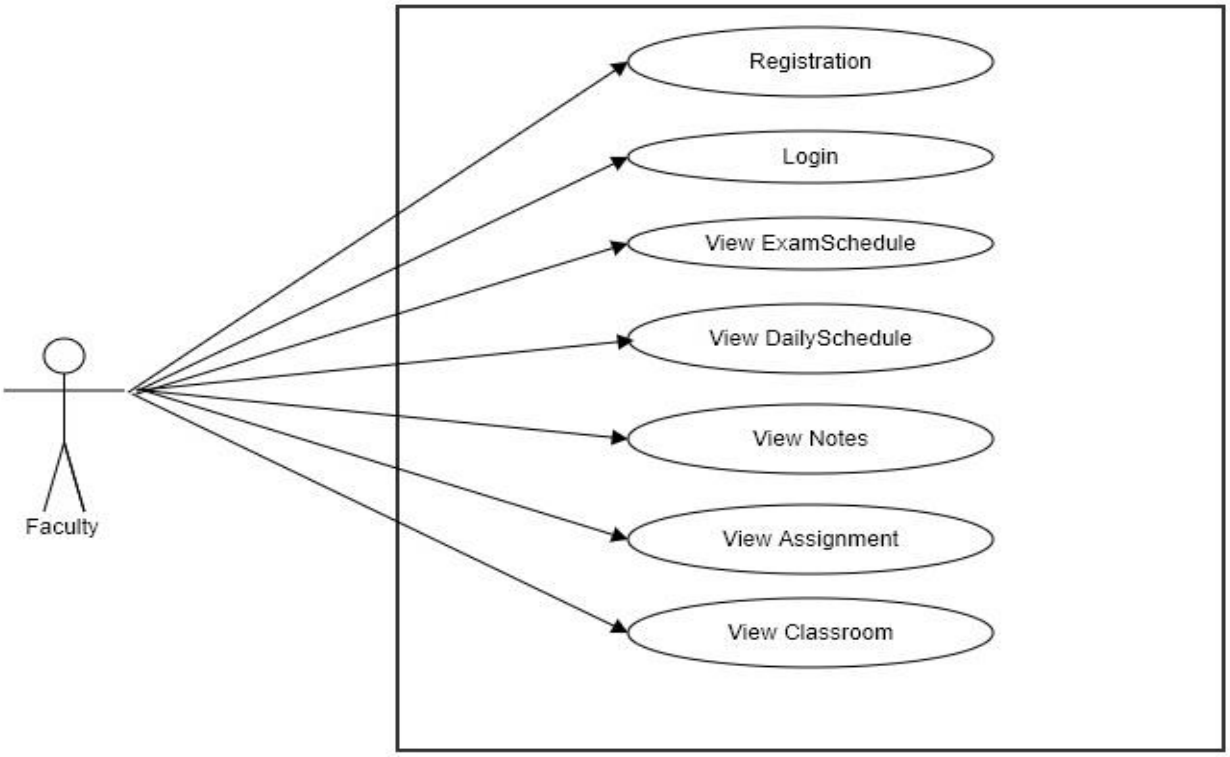


- **Use Case Diagram:**

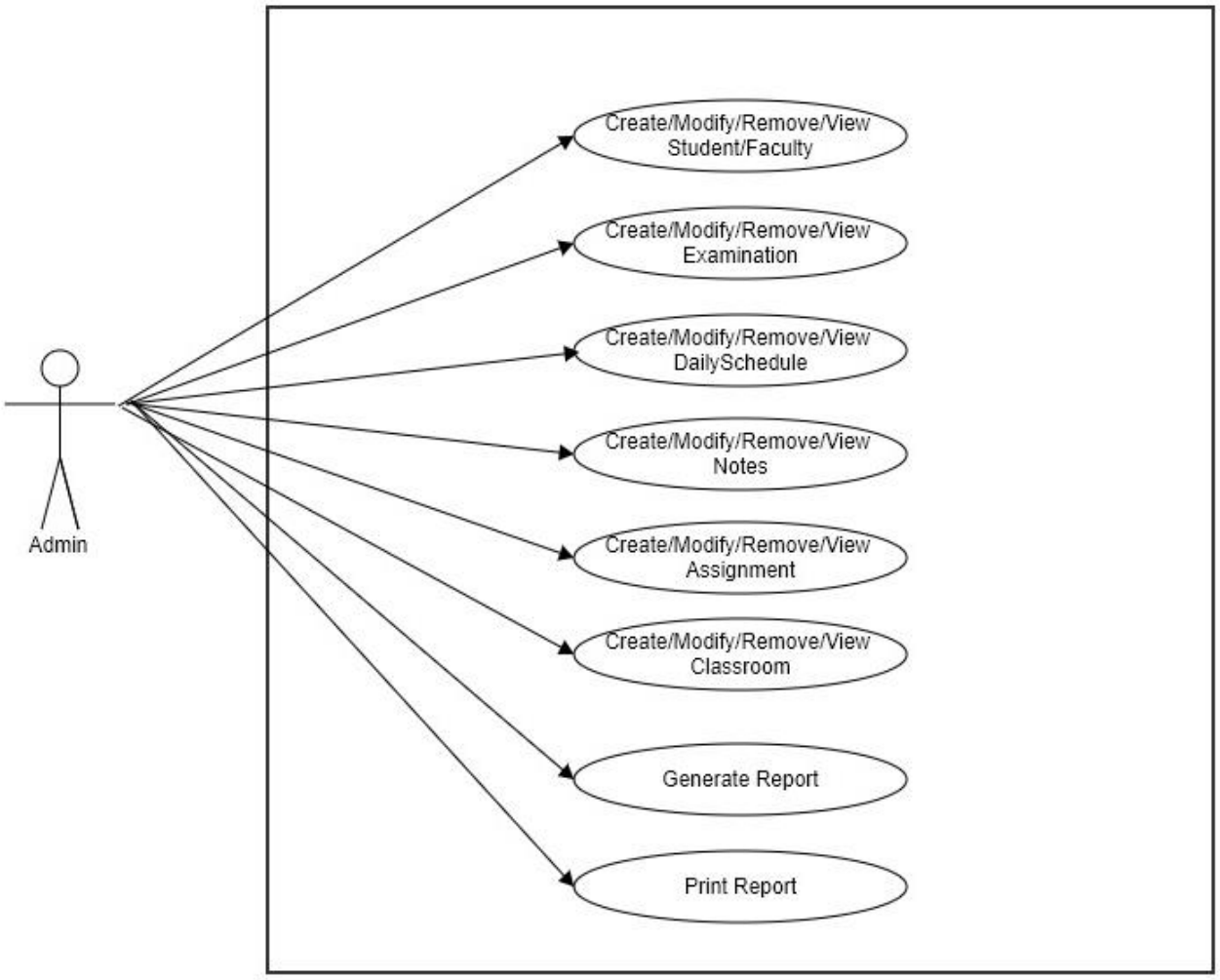
  - Student Use-case:



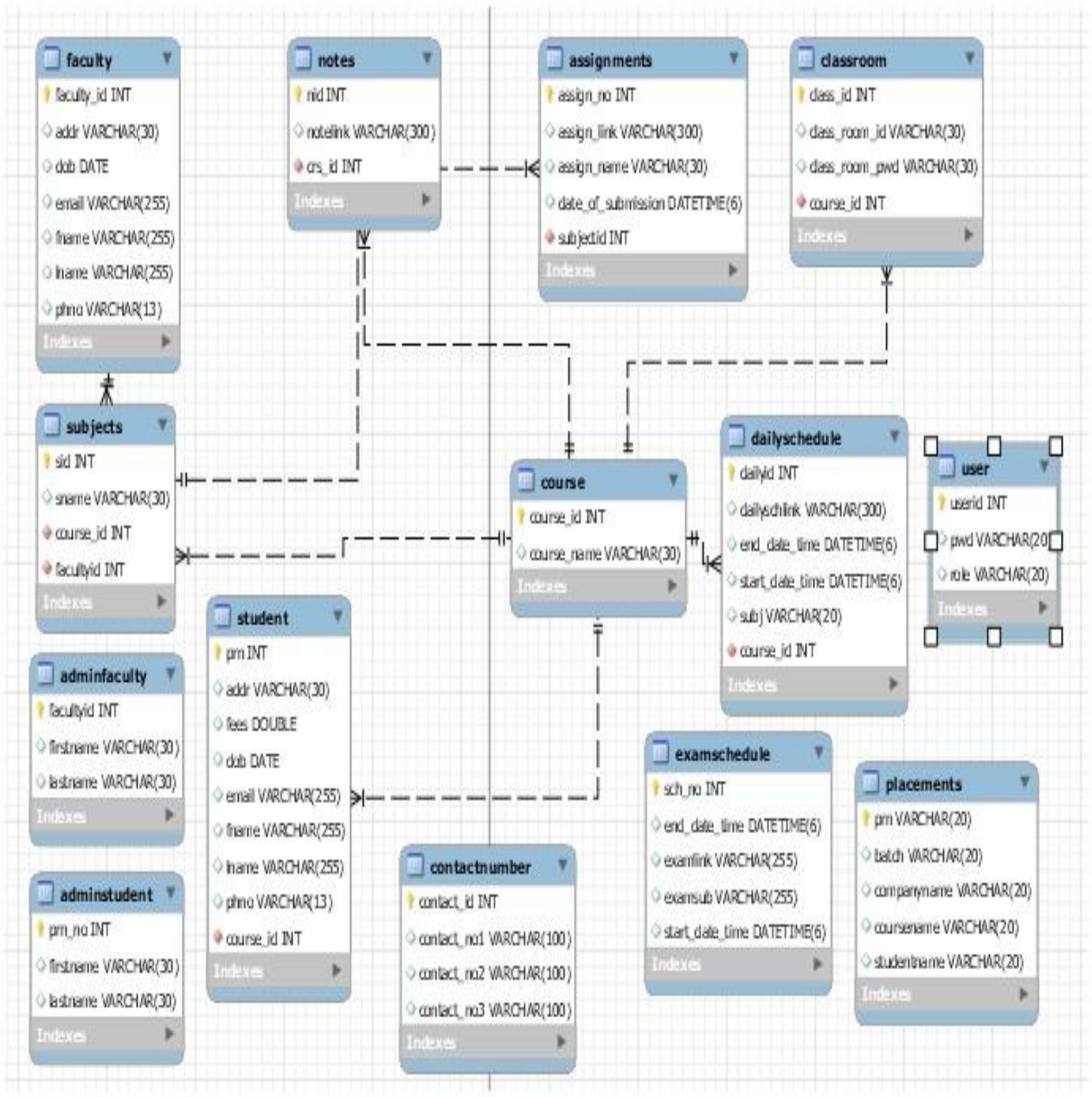
  - Faculty Use-case:

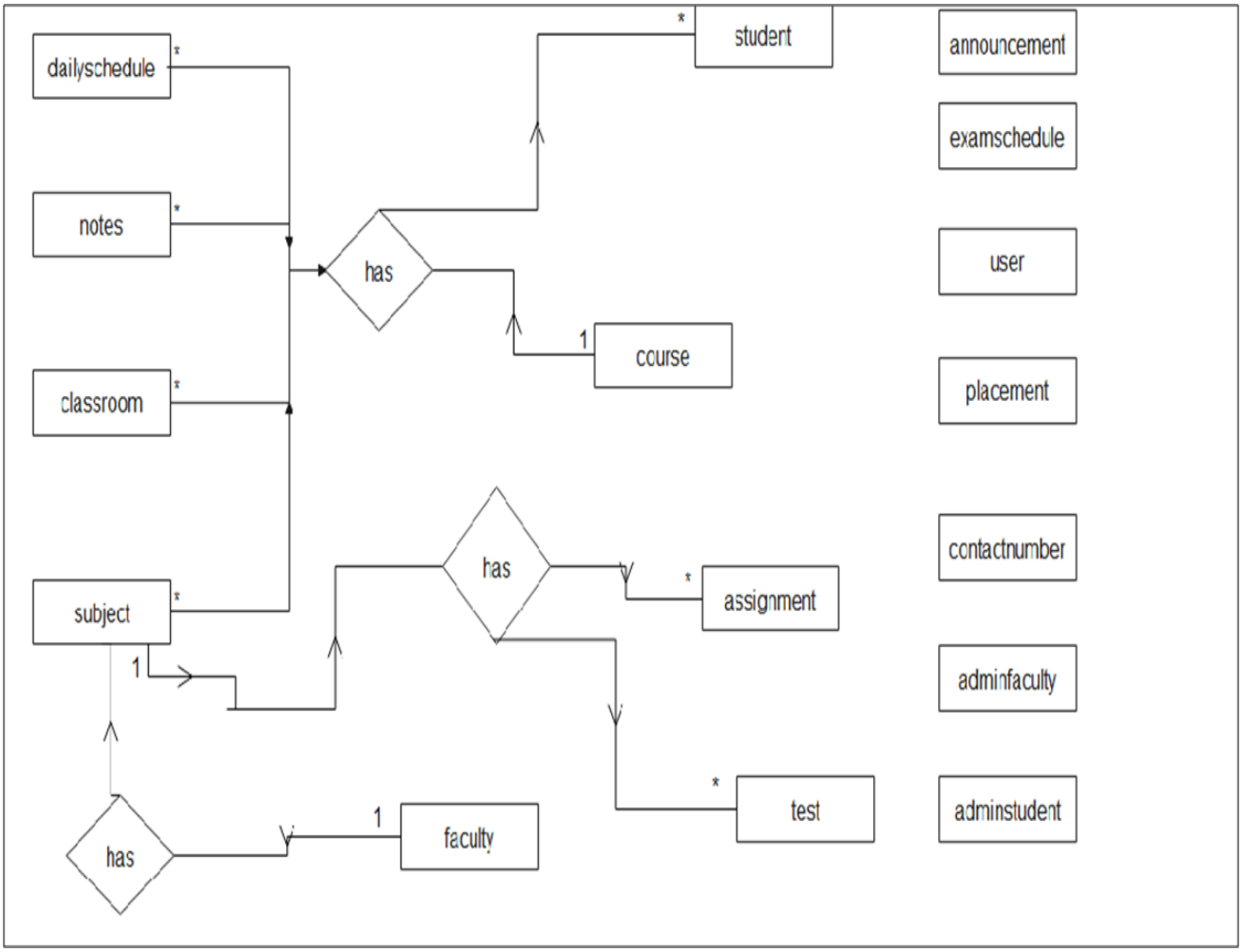


- Admin Use-case:



- **ER Diagram:**


faculty
faculty_id INT
addr VARCHAR(30)
dob DATE
email VARCHAR(255)
fname VARCHAR(255)
lname VARCHAR(255)
phno VARCHAR(13)
Indexes
notes
nid INT
notelink VARCHAR(300)
crs_id INT
Indexes
assignments
assign_no INT
assign_link VARCHAR(300)
assign_name VARCHAR(30)
date_of_submission DATETIME(6)
subjectid INT
Indexes
classroom
class_id INT
class_room_id VARCHAR(30)
class_room_pwd VARCHAR(30)
course_id INT
Indexes
subjects
sid INT
sname VARCHAR(30)
course_id INT
facultyid INT
Indexes
course
course_id INT
course_name VARCHAR(30)
Indexes
dailyschedule
dailyid INT
dailyschlink VARCHAR(300)
end_date_time DATETIME(6)
start_date_time DATETIME(6)
subj VARCHAR(20)
course_id INT
Indexes
user
userid INT
pwd VARCHAR(20
role VARCHAR(20)
Indexes
student
prn INT
addr VARCHAR(30)
fees DOUBLE
dob DATE
email VARCHAR(255)
fname VARCHAR(255)
lname VARCHAR(255)
phno VARCHAR(13)
course_id INT
Indexes
adminfaculty
facultyid INT
firstname VARCHAR(30)
lastname VARCHAR(30)
Indexes
adminstudent
prn_no INT
firstname VARCHAR(30)
lastname VARCHAR(30)
Indexes
contactnumber
contact_id INT
contact_no1 VARCHAR(100)
contact_no2 VARCHAR(100)
contact_no3 VARCHAR(100)
Indexes
examschedule
sch_no INT
end_date_time DATETIME(6)
examlink VARCHAR(255)
examsub VARCHAR(255)
start_date_time DATETIME(6)
Indexes
placements
prn VARCHAR(20)
batch VARCHAR(20)
companyname VARCHAR(20)
coursename VARCHAR(20)
studentname VARCHAR(20)
Indexes


dailyschedule
notes
classroom
subject
has
student
course
has
assignment
has
faculty
test
announcement
examschedule
user
placement
contactnumber
adminfaculty
adminstudent
*
1

5. Table Structure.

- Course:

Field	Type	Null	Key	Default	Extra
courseId	int(11)	NO	PRI	NULL	auto_increment
courseName	varchar(30)	YES		NULL	

- Subject:

Field	Type	Null	Key	Default	Extra
subjectId	int(10)	NO	PRI	NULL	auto_increment
subjectName	varchar(30)	YES		NULL	
courseId	int(10)	NO	MUL	NULL	
facultyId	int(10)	NO	MUL	NULL	

- Admin Student:

Field	Type	Null	Key	Default	Extra
prn_no	int	YES	PRI	NULL	auto_increment
firstname	varchar(30)	NO		NULL	
lastname	varchar(30)	NO		NULL	

- Student:

Field	Type	Null	Key	Default	Extra
pid	int(11)	NO	PRI	NULL	auto_increment
fname	varchar(30)	YES		NULL	
lname	varchar(30)	YES		NULL	
phno	varchar(30)	YES		NULL	
dob	datetime	YES		NULL	
email	varchar(30)	YES		NULL	

address	varchar(50)	YES		NULL	
coursename	int(11)	NO	MUL	NULL	
courseFees	double	YES		NULL	

- Admin Faculty:

Field	Type	Null	Key	Default	Extra
facultyid	int	NO	PRI	NULL	auto_increment
firstname	varchar(30)	YES		NULL	
lastname	varchar(30)	YES		NULL	

- Faculty:

Field	Type	Null	Key	Default	Extra
facultyid	int(11)	NO	PRI	NULL	auto_increment
fname	varchar(30)	YES		NULL	
lname	varchar(30)	YES		NULL	
phno	varchar(30)	YES		NULL	
dob	datetime(6)	YES		NULL	
email	varchar(30)	YES		NULL	
address	varchar(50)	YES		NULL	
faculty	int	YES	MUL	NULL	

- Assignment:

Field	Type	Null	Key	Default	Extra
assign_no	int	NO	PRI	NULL	auto_increment
assign_link	varchar(300)	YES		NULL	
assign_name	varchar(30)	YES		NULL	
date_of_submission	datetime(6)	YES		NULL	
subjectid	int	NO	MUL	NULL	

- Notes:

Field	Type	Null	Key	Default	Extra
nid	int	NO	PRI	NULL	auto_increment
notelink	varchar(300)	YES		NULL	
crs_id	int	YES	MUL	NULL	

- Classroom:

Field	Type	Null	Key	Default	Extra
class_id	int	NO	PRI	NULL	auto_increment
class_room_id	varchar(30)	YES		NULL	
class_room_pwd	varchar(30)	YES		NULL	
course_id	int	NO	MUL	NULL	

- Daily Schedule:

Field	Type	Null	Key	Default	Extra
dailyId	int(10)	NO	PRI	NULL	auto_increment
startDateTime	datetime	YES		NULL	
endDateTime	datetime	YES		NULL	
dailySchLink	varchar(300)	YES		NULL	
courseId	int(10)	NO	MUL	NULL	
subjectName	varchar(30)	YES		NULL	

- Placements:

Field	Type	Null	Key	Default	Extra
prn	varchar(20)	NO	PRI	NULL	
batch	varchar(20)	YES		NULL	
companyname	varchar(20)	YES		NULL	

coursename	varchar(20)	YES		NULL	
studentname	varchar(20)	YES		NULL	

- Announcement:

Field	Type	Null	Key	Default	Extra
ansm_id	int	NO	PRI	NULL	auto_increment
ansm_name	varchar(500)	YES		NULL	

- Contact Number:

Field	Type	Null	Key	Default	Extra
contact_no1	int	NO	PRI	NULL	auto_increment
contact_no2	varchar(100)	YES		NULL	
contact_no3	varchar(100)	YES		NULL	
contact_no4	varchar(100)	YES		NULL	

- User:

Field	Type	Null	Key	Default	Extra
userid	int	NO	PRI	NULL	
password	varchar(30)	YES		NULL	

6. CONCLUSION

- **Conclusion:**

  This project aid in automating the existing manual system. This is a paperless work. It can be monitored and guarded remotely. It cut down the man power required and provides accurate information. All years together huddled information can be saved and can be accessed at any time. For this reason, the data stored in the repository helps in taking decision by management. So, it is improved to have a Web Based system. All the stakeholders, faculty and authority can get the required information without delay. This system is crucial in the colleges and universities.

- **Future Scope:**

  This project can be enhanced further by adding payable additional courses, online feedback system, online payment facility for the members to reduce the extra work of the admin. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to Institutes.

7. REFERENCES.

- **References:**

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  - https://javaee.github.io/javaee-spec/javadocs/
  - https://www.w3schools.com/