

Software Requirement Specification

Project Title	Online Tutorial Management
Domain Group Number	
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Project Overview:

Information Technology has revolutionized the way we go about doing our daily activities. The web for instance has revolutionized the way information can be accessed thereby making the world a global village.

The impact of information technology has grown to the level that virtually all domains of life now has everything in Electronic. Now we have E-Commerce, E-Examination, E-Voting, E-Registration. The availability and deployment of all of these is made possible with the use of the Internet (the biggest of all the Computer networks), a local area network (intranet) for deploying E-Solutions within a restricted locality e.g. an office, telephone lines (using radio wave as its medium).

Due to the universal access of the internet, student tutorials and learning activities can be processed over the web.

The project work which is focused on modeling and designing an Online Tutorial System through the Web. For the benefits of the students in the university; the online tutorial will include registration of students like their personal information and also make available of videos and audio type document for download.

The registration data of the students are stored in a highly secured Relational Database Management System (RDBMS) and the students are provided with a Graphical User Interface (GUI) to communicate with the database.

- Now a days Tutorial Points are becoming useful to the students who are in the search of quality education. So, this web application provides the support for both the tutors and students. The Admin is the head of this application who can view the students and tutors registered into the application. Admin will add the courses, schedule and authorise the tutor and student. The tutors who need to be registered and login and can select the course he would like to teach by providing location and timings.
- Students who also need to register and login into the application while registering student after logging in they have to select the course. The tutors available in the course that tutor can teach both are matched and the request will be sent to admin. Admin will confirm the request therefore student can view the tutor details.

Product Features:

Admin:

Admin will login with the username and password. Admin can view the registered tutors and students. He can also view the requests from tutors. Admin will confirm the requests then the details of tutors are shown to the student and the tutor will be assigned to the student. In short admin can have to authorise student and tutor. Admin will add course and schedule for the student and tutor.

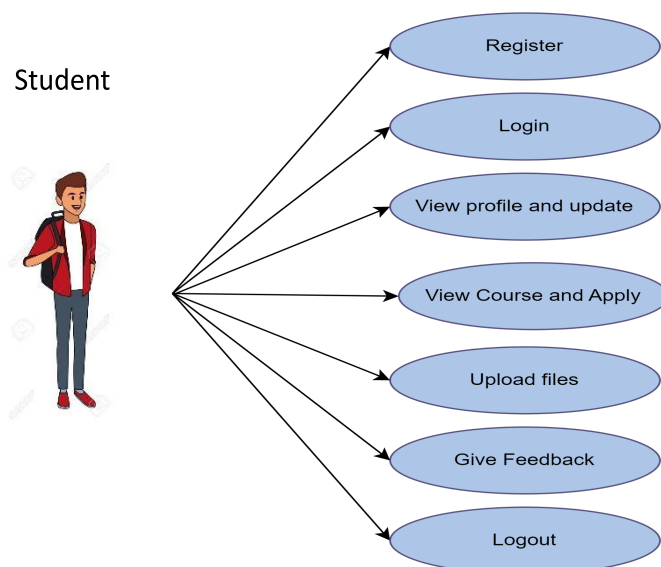
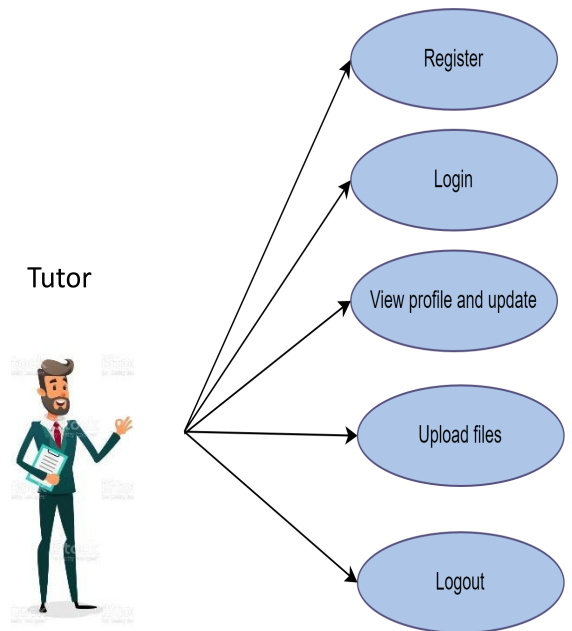
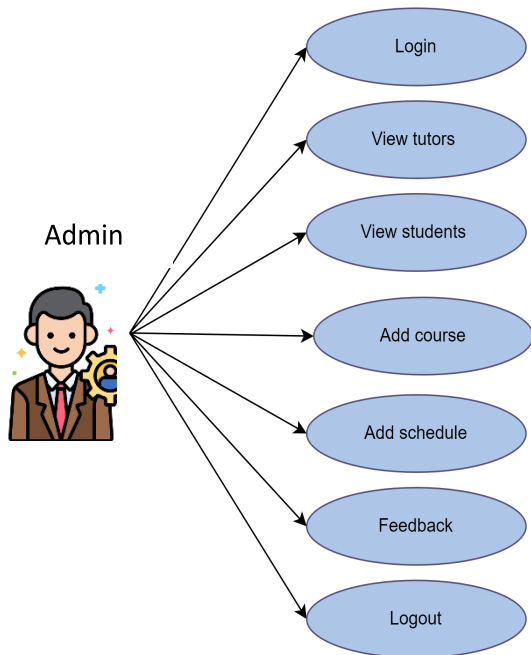
Tutor:

Tutor will register and login into the application by giving the username and password, after logging in tutor will select the course and location and the timings with his availability.

Student:

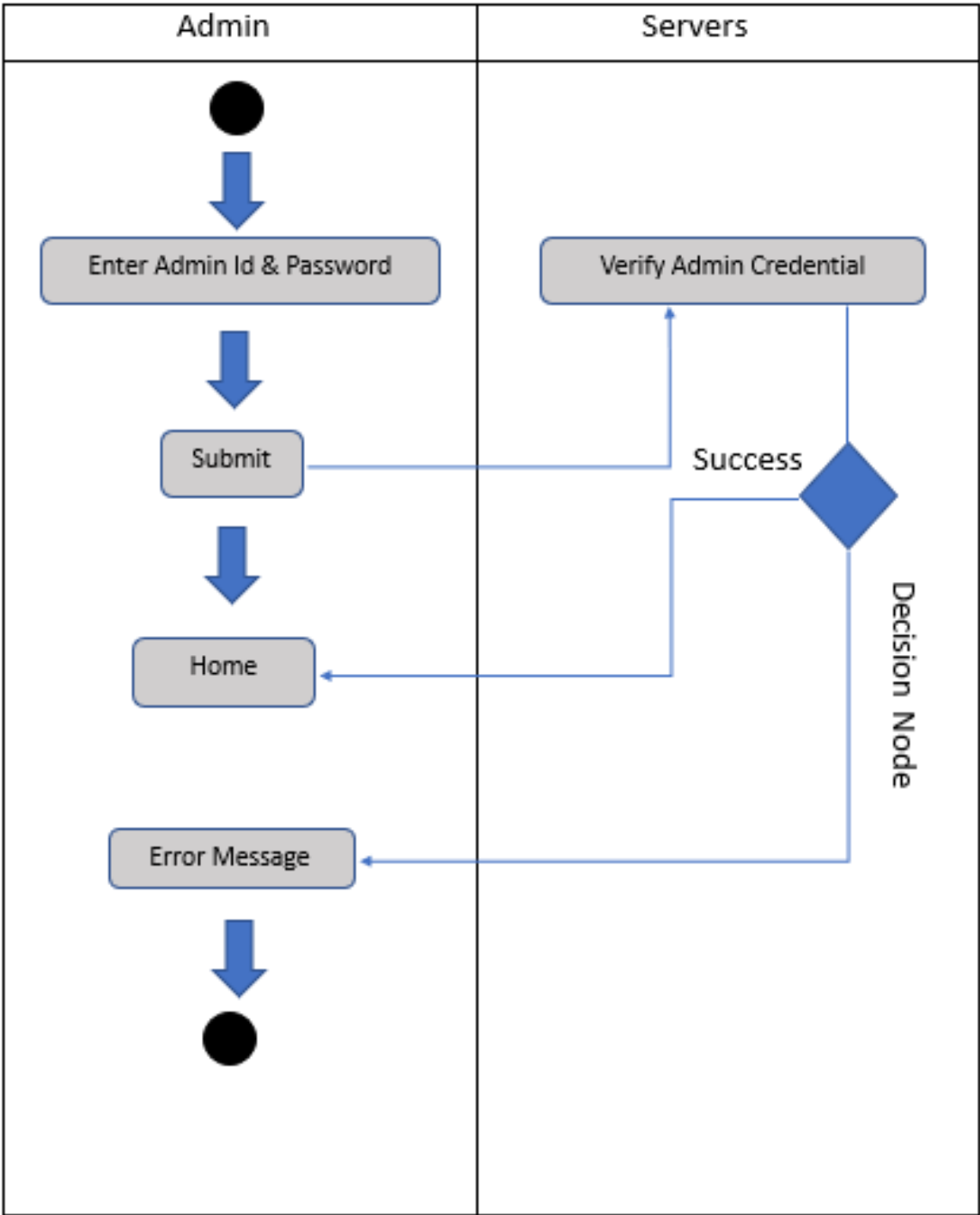
Student will register and login into the application by giving username and password and student need to select the course and timings and if any tutors available in that area the request will be forwarded to admin, admin will confirm the request the tutor will be assigned to student. And student also have access to give feedback once for atleast one subject tutor.

Use Case Diagram:



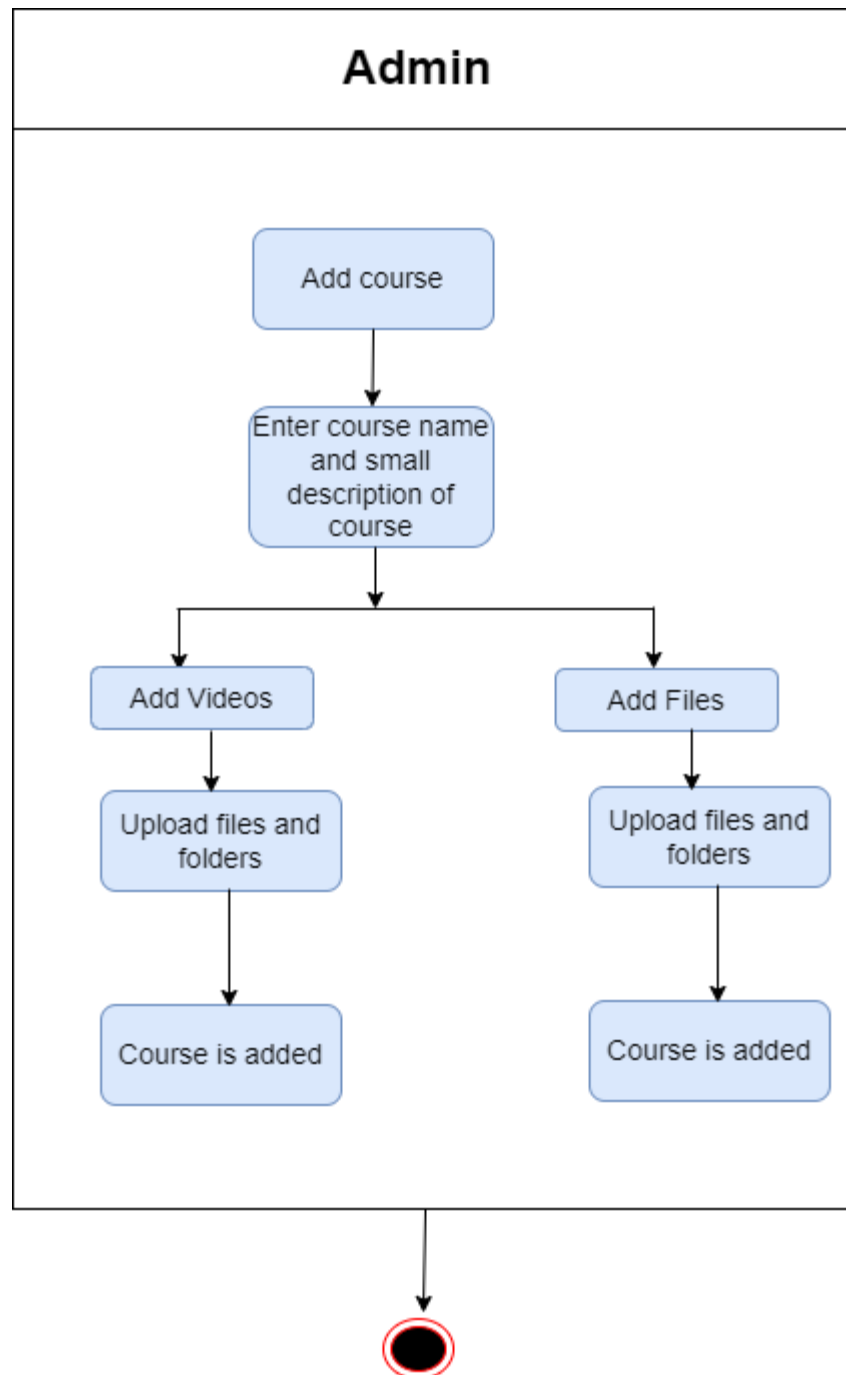
Activity Diagrams

Admin Login



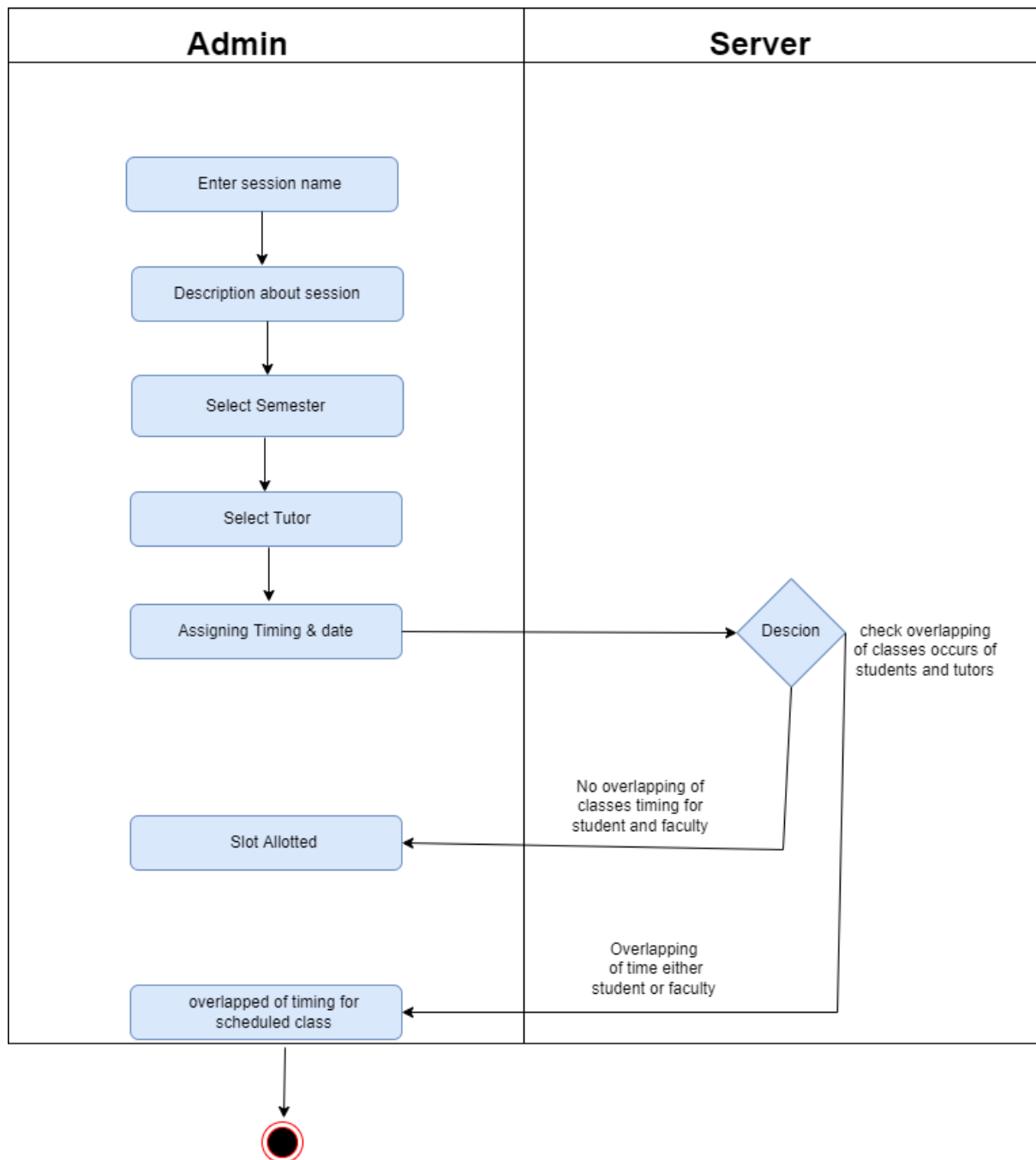
Use Case ID: 01	use case Name: Admin Login
Description	<ul style="list-style-type: none"> · The admin can log in to the Online Tutorial website, through any devices to access the website online. · After logging in, admin should click the submit button. · Meanwhile the credentials of admin will be verified if it's correct the admin will directly go to the home page or else error message will pop on the screen. · It is mandatory to have an account to access the application and its facilities.
Actor	Admin
Preconditions	Admin should have a valid account in the Online Tutorial System.
Post conditions	Admin will be logged in.
Exception	Credentials are wrong
Normal Course of Events	<ul style="list-style-type: none"> · The admin opens up the website named as Online Tutorial System through their respective devices. · Opening up the website admin will be redirected to the login page which contains various filling up fields to be provided by the client or the user. · The admin will provide the ID which is unique throughout the software. Admin will fill the Admin ID Field & the password field. · After Successful Login, Admin should be navigated to the Home Page. · If the credentials are wrong, admin will be redirected displayed with a message "INVALID USERNAME OR PASSWORD".

Admin:- Add courses



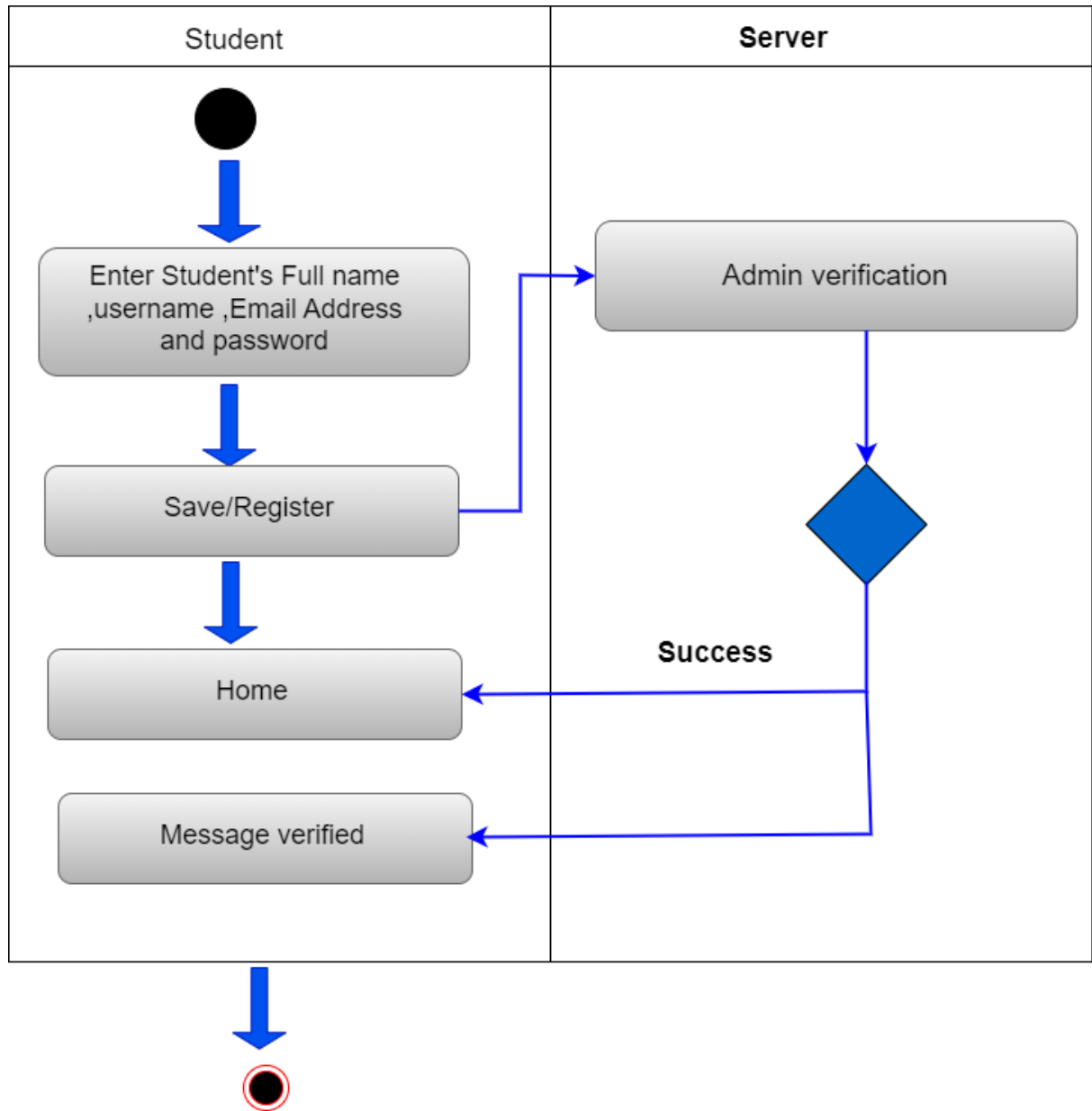
Use Case ID: 02	Use Case Name: Add Course
Description	<p>Admin should open the website and complete the login process.</p> <p>Here Admin will be provided with a add course option to add the courses students can register for that course and start learning</p>
Actor	Admin
Preconditions	Admin should have a valid account in the Online Tutorial System.
Post conditions	A new course will be added by Admin
Exception	Course is not available
Normal Course of Events	<ul style="list-style-type: none"> · The admin opens up the website named as Online Tutorial System through their respective devices. · Opening up the website Admin will be redirected to the login page. · The Admin should have a valid user Id and password of Admin Account . · After Successful Login, Admin should be navigated to the Homepage. <p>On clicking on the profile of Admin has one of the features of add courses.</p> <p>by entering the name of the course and description also uploading the required study materials such as video and files.</p> <p>On clicking Add course course will be added successfully.</p>

Admin :- add classes schedule



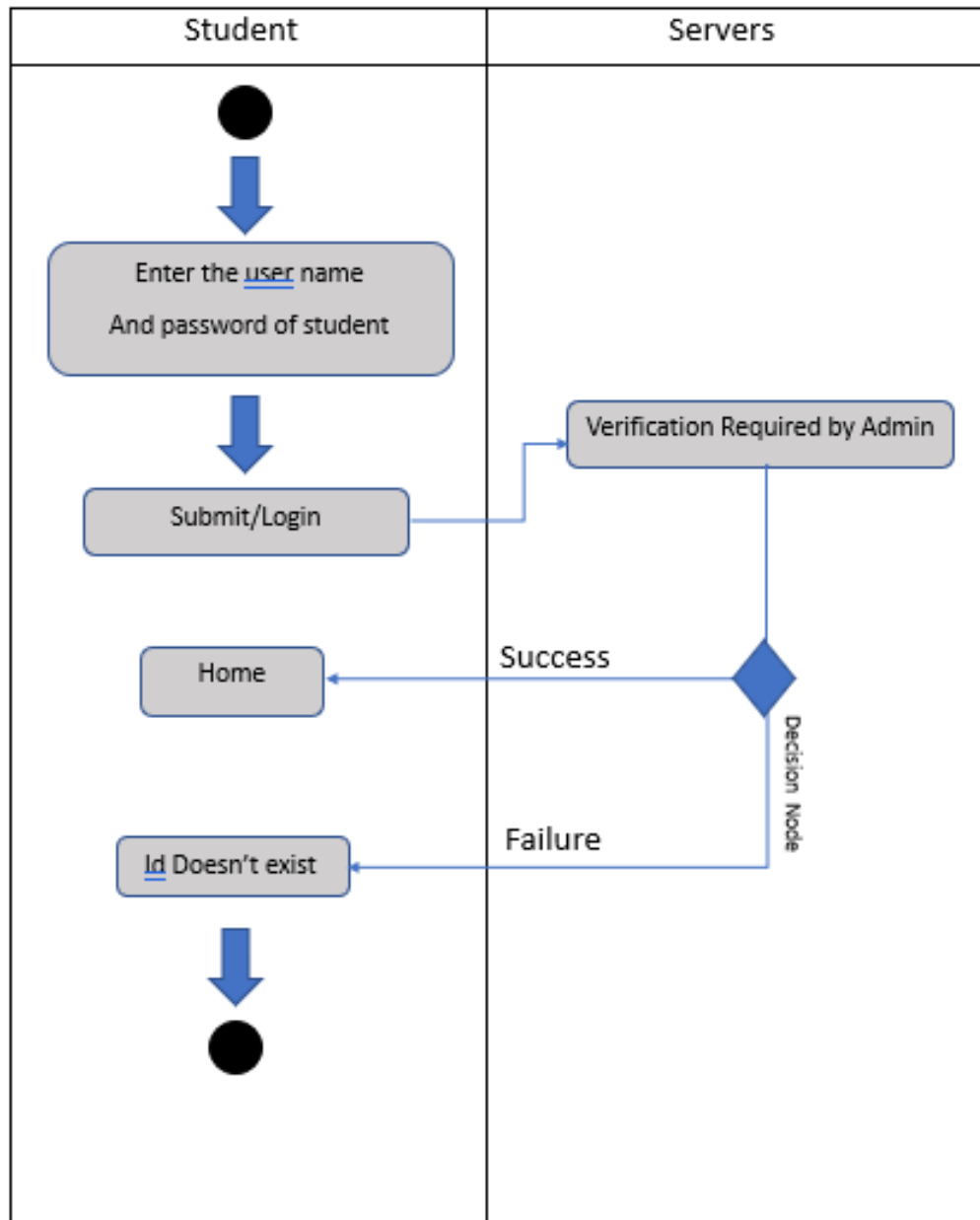
Use Case ID: 03	Use Case Name: Schedule timing for classes
Description	The Admin can Schedule a live session for the classes. Every session has a short description about the topic that will be discussed by the tutor.
Actor	Admin
Preconditions	Admin should have a valid account in the Online Tutorial System.Admin will be logged in.
Post conditions	The course class timing will be scheduled by the Admin by arranging proper tutor for the class.
Exception	Class is not scheduled
Normal Course of Events	<ul style="list-style-type: none"> · The admin opens up the website named as Online Tutorial System through their respective devices. · Opening up the website Admin will be redirected to the login page. · The Admin should have a valid user Id and password of Admin Account . · After Successful Login, Admin should be navigated to the Homepage. · On clicking on the profile of Admin has one of the features of Schedule classes . · On clicking Schedule classes admin should fill some information like session name,description about session,select semester,Assigning timing after on click of schedule the class the server checks the timing of tutor and students if no overlapping of class of tutor and student then Session will be scheduled successfully or else pop of overlapping of classes message occurs.

Student Registration



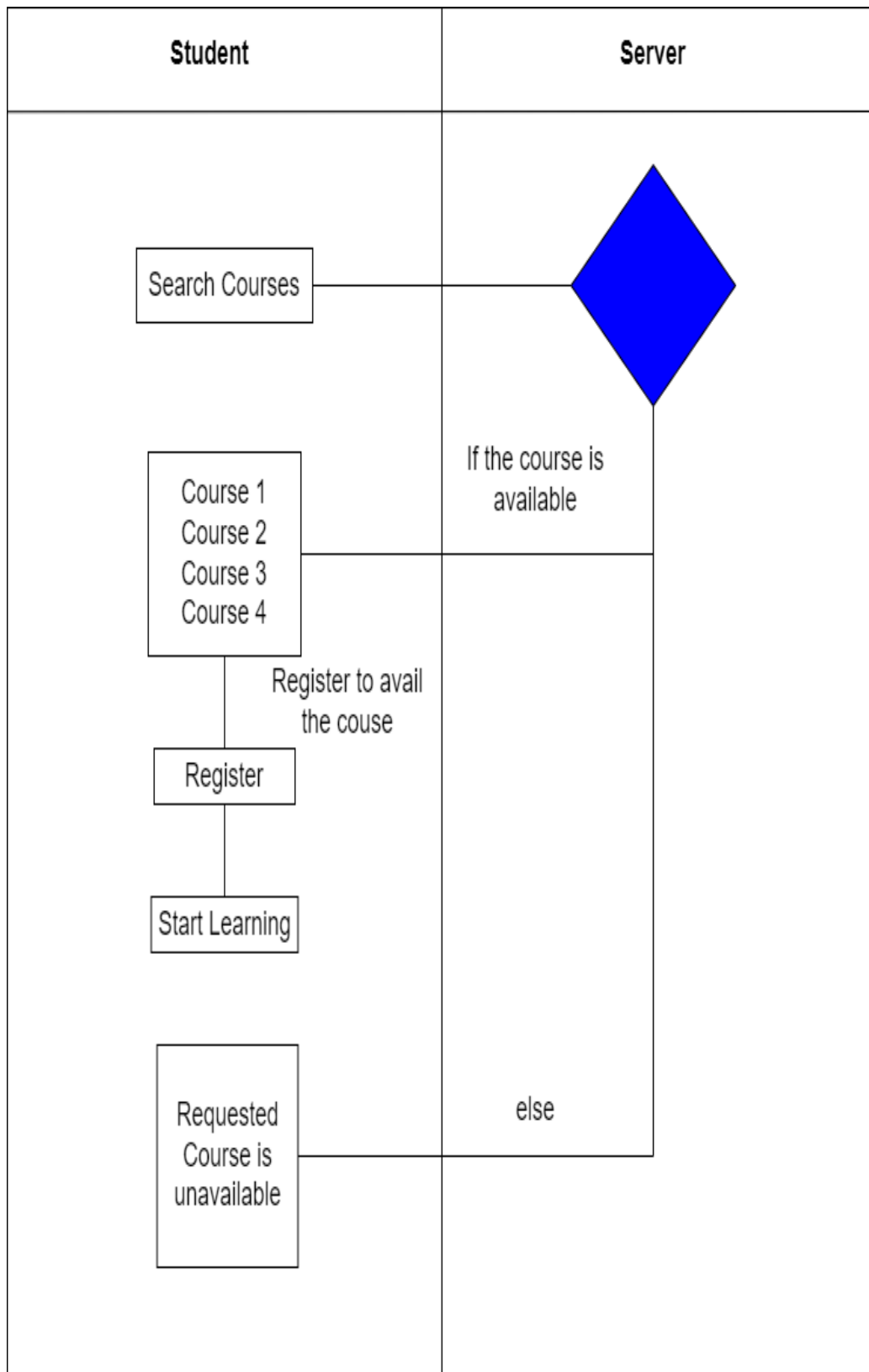
Use Case ID: 04	Use Case Name: Student Registration
Description	<ul style="list-style-type: none"> · Student's should open the website and complete the registration process. · For signing in, student should provide their full name, username, email address, contact number, password and press the save button and then press submit button. · Meanwhile the credentials of student's will be verified if it's correct the student will directly go to the home page or else error message will pop on the screen. · It is mandatory to have an account to access the application and its facilities.
Actor	Student
Preconditions	Student's should have a valid account in the Online Tutorial System and provide their valid details to the website.
Post conditions	Student's will be Registered.
Exception	Fill the credentials
Normal Course of Events	<ul style="list-style-type: none"> · The Student opens up the website named as Online Tutorial System through their respective devices. · Opening up the website student should be redirected to the registration page which contains various filling up fields to be provided by the admin or the user. · The student will provide the ID which is unique throughout the software. Student should fill the student full name, username, email address, password, contact number. · After Successful Registration, Student should be navigated to the login Page.

Student Login



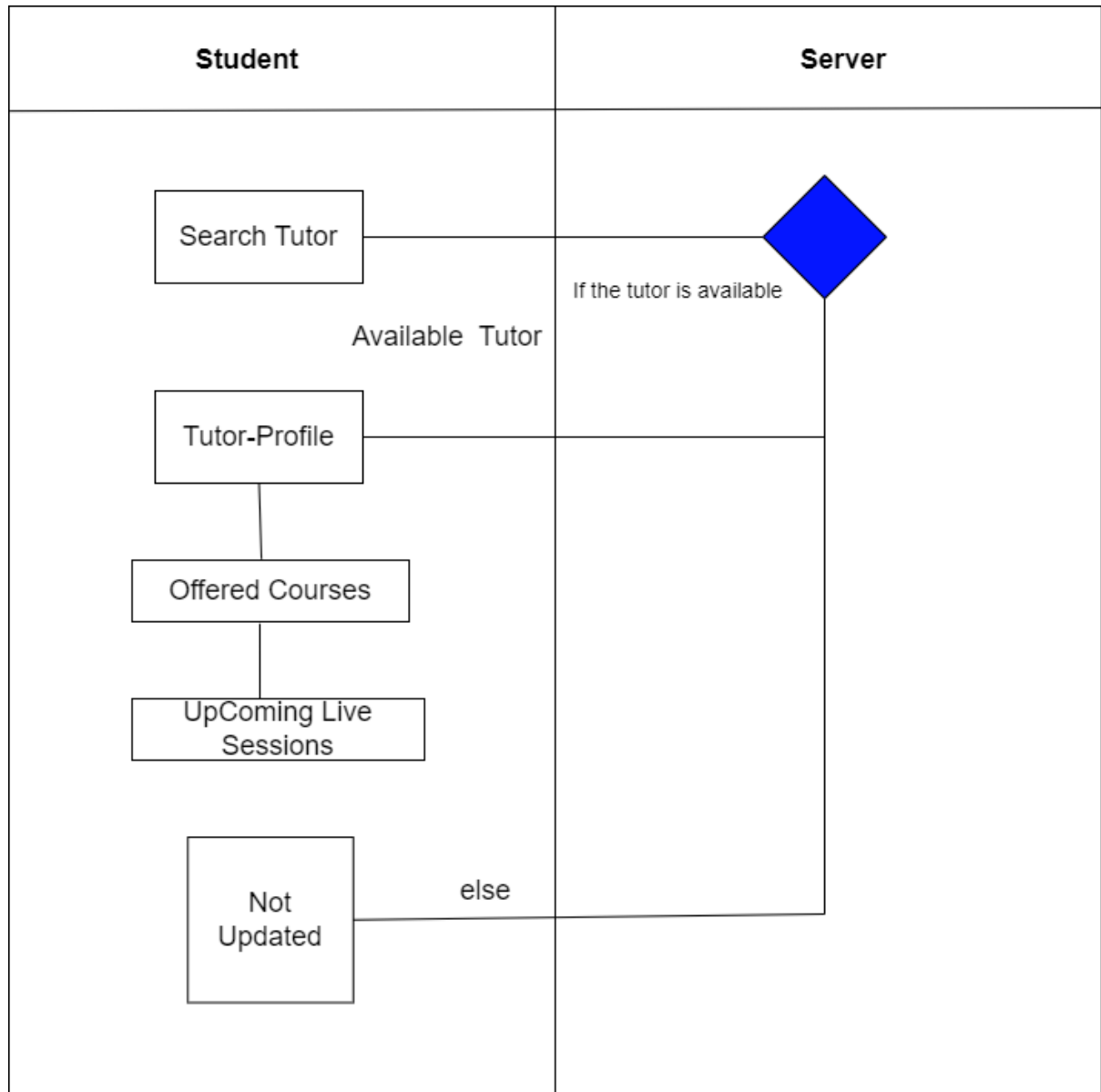
Use Case ID: 05	Use Case Name: Student Login
Description	<ul style="list-style-type: none"> · The Student can log in to the Online Tutorial website, through any devices to access the website online. · After logging in, Student should click the submit button. · Meanwhile the credentials of student will be verified if it's correct the student will directly go to the home page or else error message will pop on the screen. · It is mandatory to have an account to access the application and its facilities.
Actor	Student
Preconditions	Student should have a valid account in the Online Tutorial System.
Post conditions	Student will be logged in.
Exception	wrong credentials
Normal Course of Events	<ul style="list-style-type: none"> · The student opens up the website named as Online Tutorial System through their respective devices. · Opening up the website student will be redirected to the login page which contains various filling up fields to be provided by the client or the user. · The student will provide the ID which is unique throughout the software. Student will fill the ID Field & the password field. · After Successful Login, Student should be navigated to the Home Page. · If the credentials are wrong, student will be redirected displayed with a message "INVALID USERNAME OR PASSWORD".

Student:- Search and Register courses



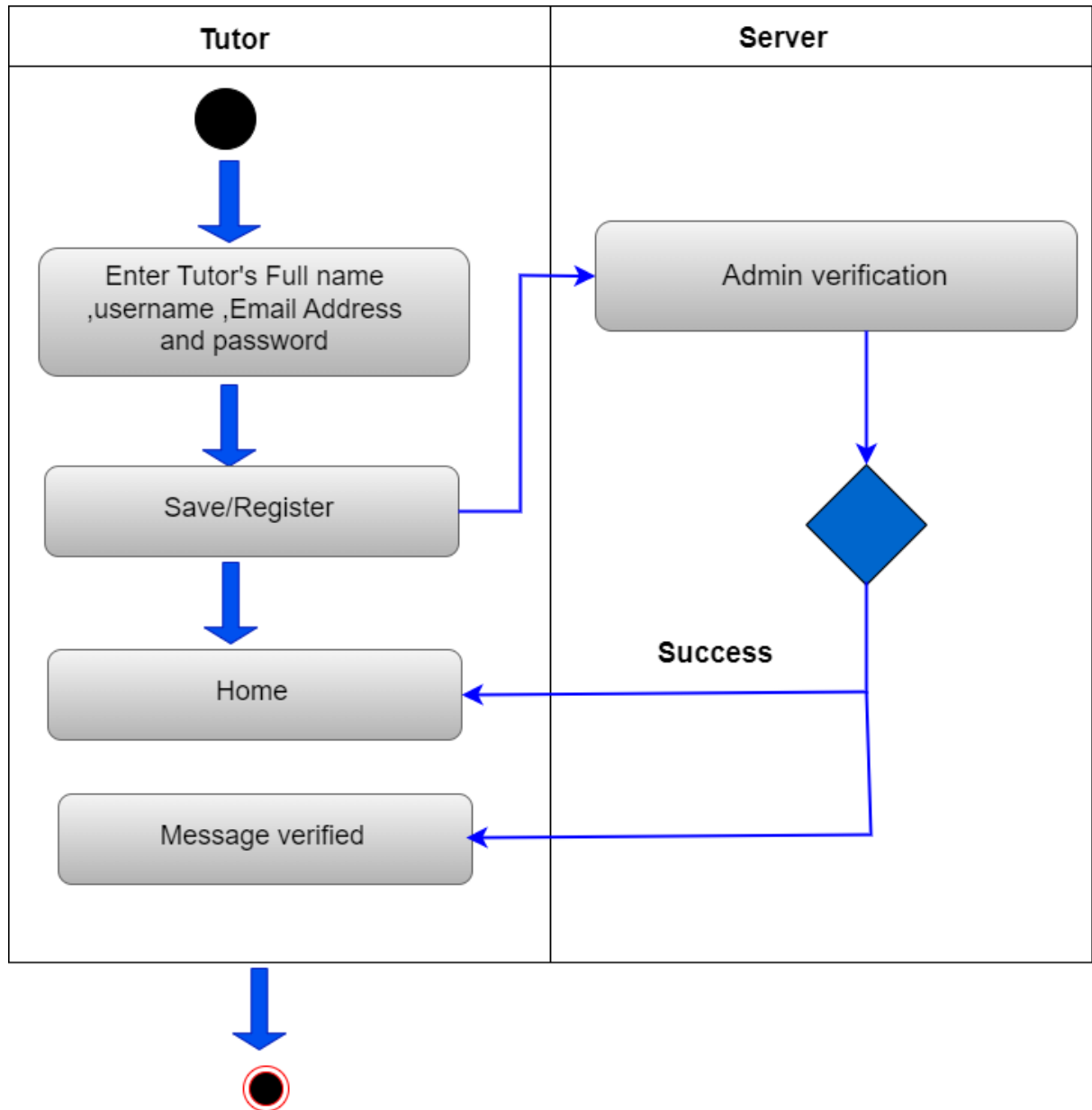
Use Case ID: 06	Use Case Name: Student- search courses
Description	<p>Students should open the website and complete the registration process.</p> <p>Here students will be provided with a search option to search for the courses which he/she wants to avail. If the required course is available, then students can register for that course and start learning</p> <p>If the required course isn't available, an info will be given.</p>
Actor	Student
Preconditions	Students should have a valid account in the Online Tutorial System and provide their valid details to the website.
Post conditions	Student will register for the courses.
Exception	select applied course
Normal Course of Events	<p>The Student opens up the website named as Online Tutorial System through their respective devices.</p> <ul style="list-style-type: none"> · Opening up the website, student should be redirected to the registration page which contains various filling up fields to be provided by the admin or the user. <p>When a student is navigated to the home page after successfully logged in, student will get all the available courses to choose from and start their learning process.</p>

Search tutor



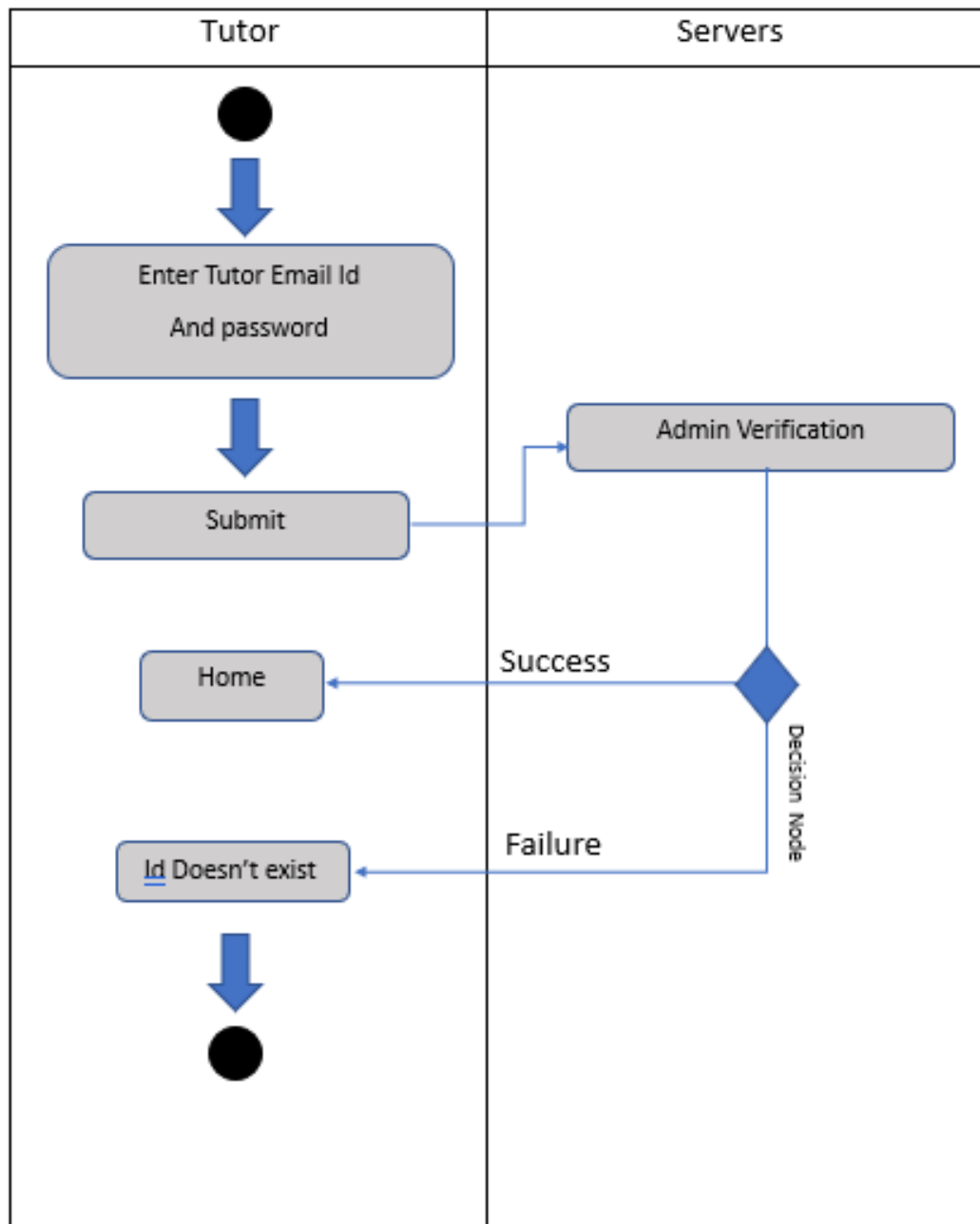
Use Case ID: 07	Use Case Name: Student- search tutor
Description	<p>Students should open the website and complete the registration process.</p> <p>Here students will be provided with a search option to search for the tutor to register for their required courses.</p> <p>If the required tutor is available, then the tutor will be shown up which contains the courses which are offered by that particular tutor.</p> <p>Also contains the details of the upcoming live sessions.</p> <p>If the tutor is not available, it means that the tutor profile isn't updated.</p>
Actor	Student
Preconditions	Students should have a valid account in the Online Tutorial System and provide their valid details to the website.
Post conditions	Student will find their tutor and register for the courses.
Exception	Not available
Normal Course of Events	<p>The Student opens up the website named as Online Tutorial System through their respective devices.</p> <p>Opening up the website, student should be redirected to the registration page which contains various filling up fields to be provided by the admin or the user.</p> <p>Students will have to search for the tutor to avail and register for their interested courses.</p> <p>Tutor profile contains all the available courses from the tutor and students can choose from and start their learning process.</p>

Tutor Registration



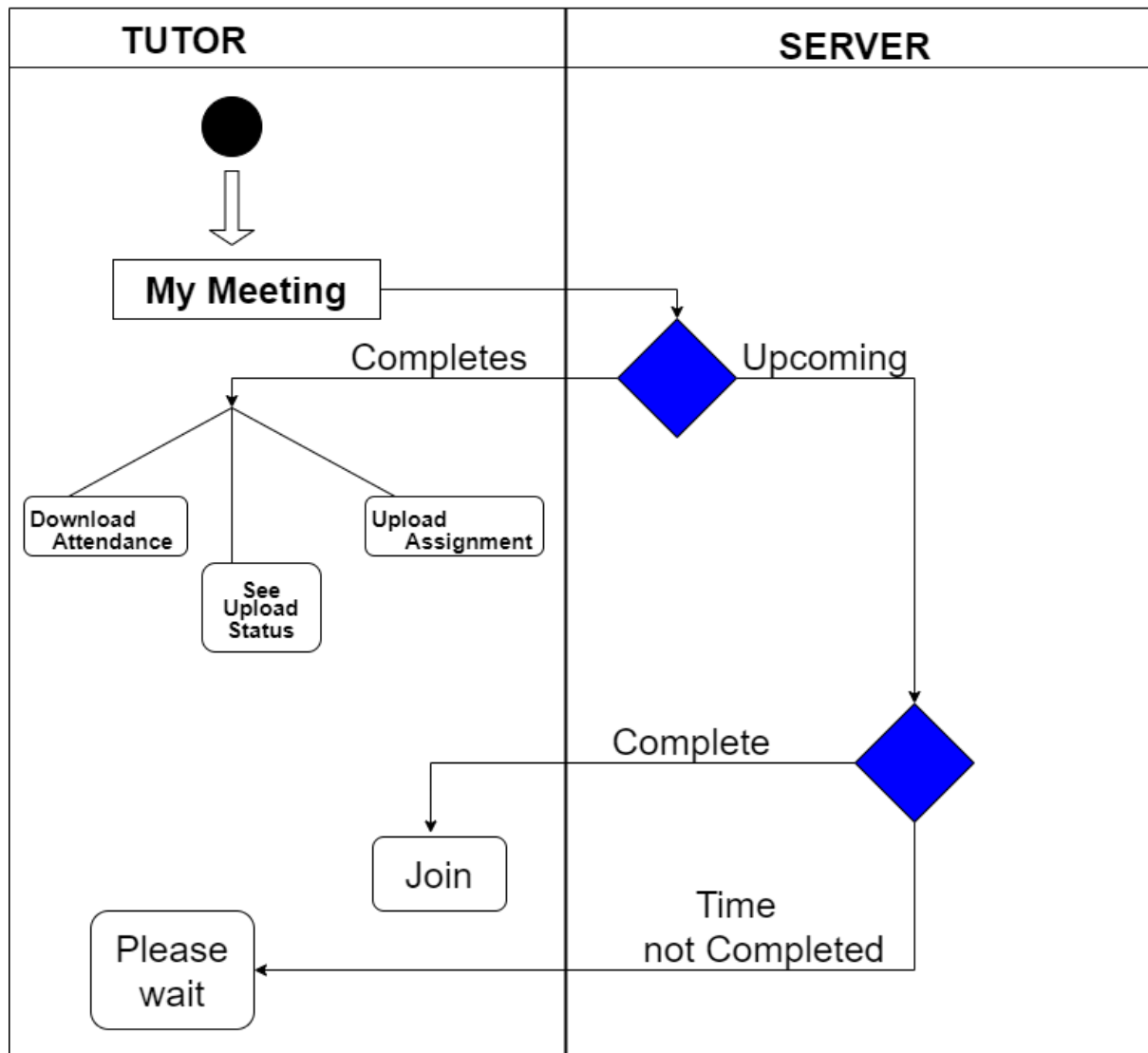
Use Case ID: 08	Use Case Name: Tutor Registration
Description	<ul style="list-style-type: none"> · Tutor should open the website and complete the registration process. · For signing in, tutor should provide their full name, email address, contact number, password and press the save button and then press submit button. · Meanwhile the credentials of tutor will be verified if it's correct the tutor will directly go to the home page or else error message will pop on the screen. · It is mandatory to have an account to access the application and its facilities.
Actor	Tutor
Preconditions	Tutor should have a valid account in the Online Tutorial System and provide their valid details to the website.
Post conditions	Tutor will be Registered.
Exception	Fill the credentials
Normal Course of Events	<ul style="list-style-type: none"> · The Tutor opens up the website named as Online Tutorial System through their respective devices. · Opening up the website tutor should be redirected to the registration page which contains various filling up fields to be provided by the admin or the user. <ul style="list-style-type: none"> · The tutor will provide the ID which is unique throughout the software. Tutor should fill the full name, username, email address, password, contact number. · After Successful Registration, Tutor should be navigated to the login Page.

Tutor Login



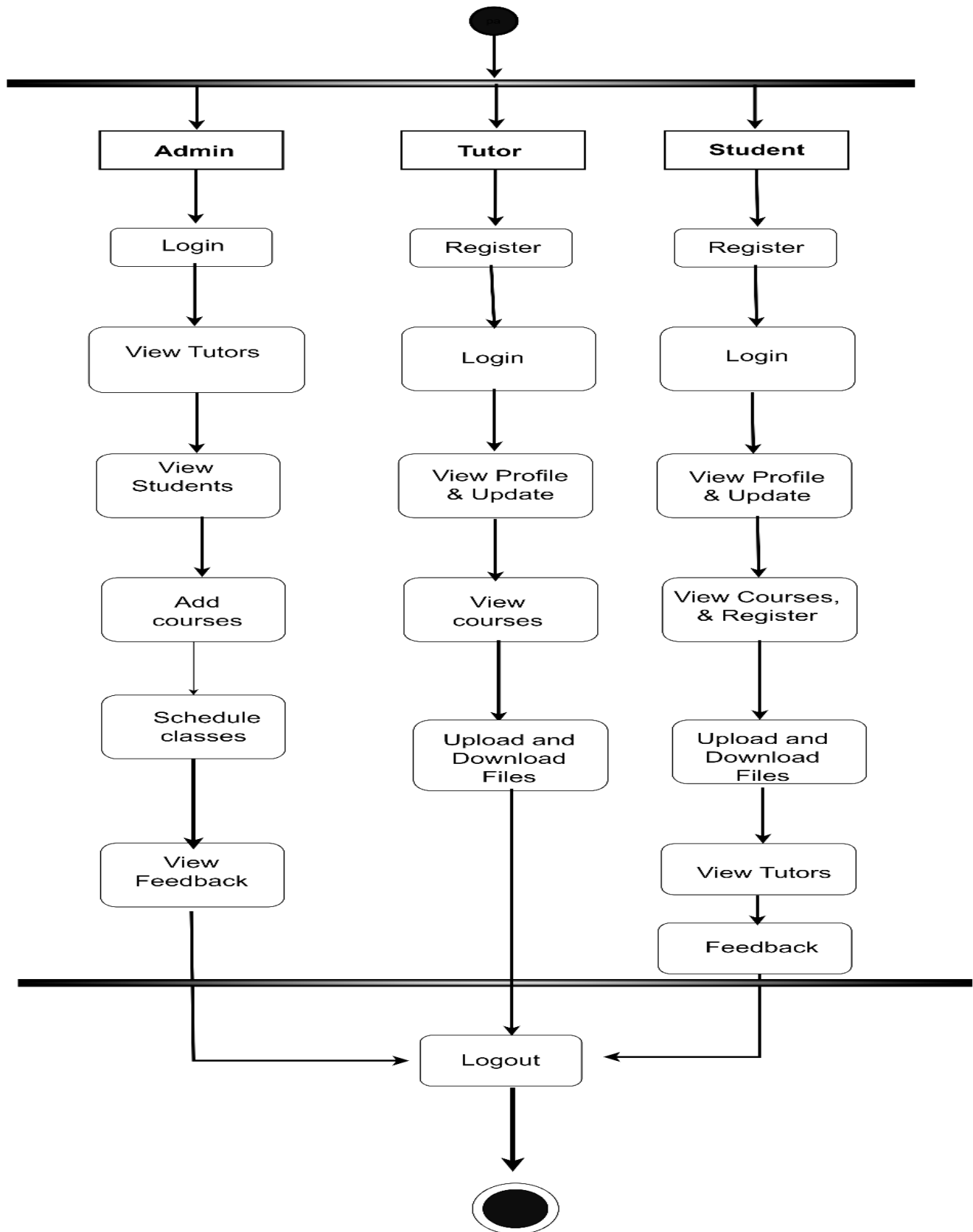
Use Case ID: 09	Use Case Name: Tutor Login
Description	<ul style="list-style-type: none"> · The tutor can log in to the Online Tutorial website, through any devices to access the website online. · After logging in, Tutor should click the submit button. · Meanwhile the credentials of tutor will be verified if it's correct the tutor will directly go to the home page or else error message will pop on the screen. · It is mandatory to have an account to access the application and its facilities.
Actor	Tutor
Preconditions	Tutor should have a valid account in the Online Tutorial System.
Post conditions	Tutor will be logged in.
Exception	Wrong credentials
Normal Course of Events	<ul style="list-style-type: none"> · The tutor opens up the website named as Online Tutorial System through their respective devices. · Opening up the website tutor will be redirected to the login page which contains various filling up fields to be provided by the client or the user. · The tutor will provide the ID which is unique throughout the software. Tutor will fill the ID Field & the password field. · After Successful Login, Tutor should be navigated to the Home Page. · If the credentials are wrong, tutor will be redirected displayed with a message "INVALID USERNAME OR PASSWORD".

Tutors:- My meeting

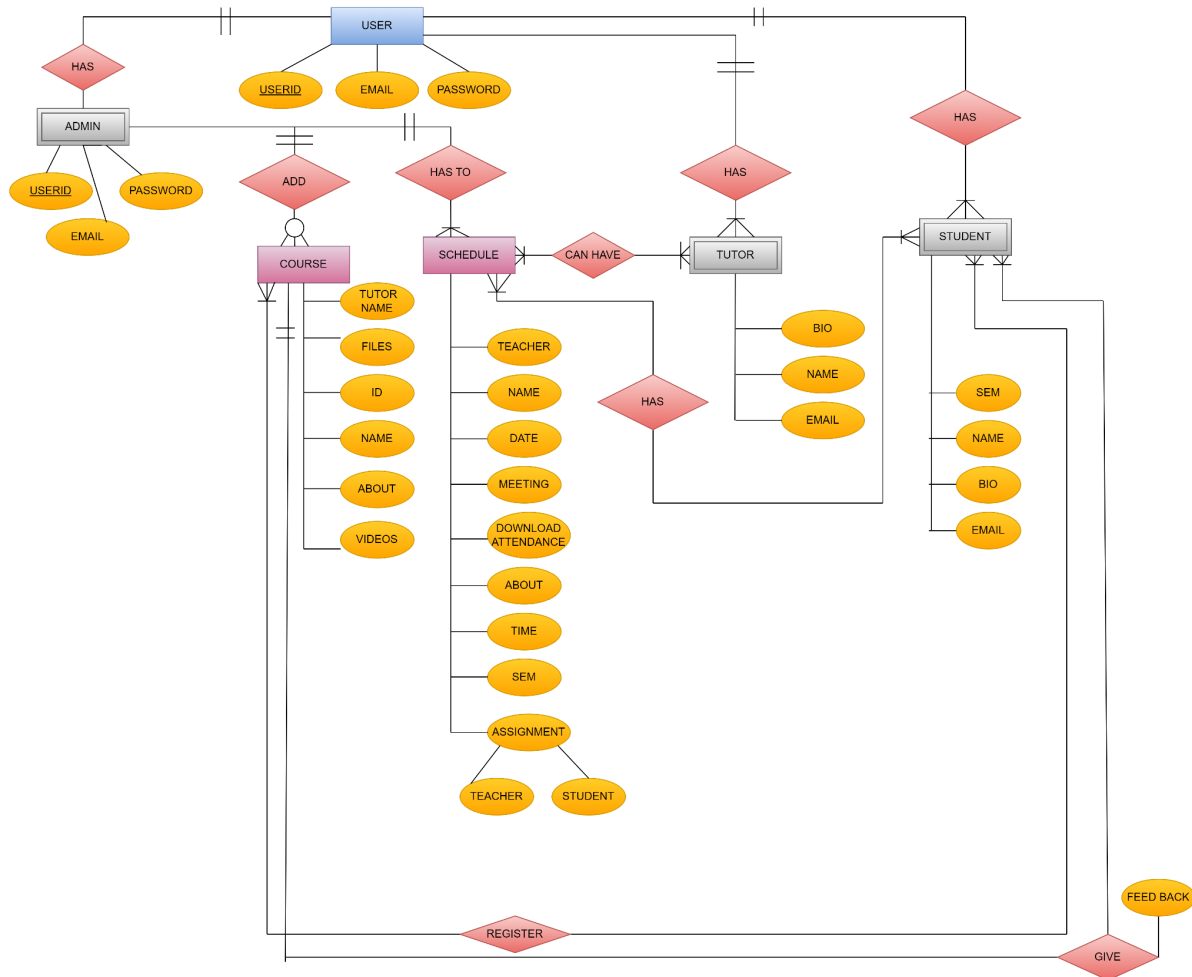


Use Case ID: 10	Use Case Name: Tutor meeting
Description	<ul style="list-style-type: none"> · Tutors have the features to upload assignments, Download attendance, check upload status of students, and can join the meeting at the class slot timing.
Actor	Tutor
Preconditions	Tutors should have a valid account in the Online Tutorial System and provide their valid details to the website.
Post conditions	Tutors can join the live session meeting as well as, can able to check the status of submission of assignment of the students registered for the respective courses.
Exception	Meeting not scheduled
Normal Course of Events	<ul style="list-style-type: none"> · The Tutor opens up the website named as Online Tutorial System through their respective devices. · Opening up the website tutor should be redirected to the registration page which contains various filling up fields to be provided by the admin or the user. · The tutor have the features on clicking on Mymeeting in Tutor profile page like On clicking on my meeting there are options of Downloaded attendance, seeing status, upload assignments also can see the upcoming meetings of the respective courses will be teachen by the respective Tutor.

CLASS DIAGRAM:



Entity Relationship Diagram:-



Description:-

USER-

USERID	INT	Primary Key
EMAIL	VARCHAR(25)	
PASSSSWORD	VARCHAR(25)	

ADMIN-

USERID	INT	Primary Key
EMAIL	VARCHAR(25)	
PASSSSWORD	VARCHAR(25)	

TUTOR-

NAME	VARCHAR(30)	
EMAIL	VARCHAR(25)	
BIO	VARCHAR(100)	

STUDENT-

NAME	VARCHAR(30)	
SEMESTER	VARCHAR(10)	
EMAIL	VARCHAR(25)	
BIO	VARCHAR(100)	
FEEDBACK	NUMERIC	

COURSE-

TUTOR NAME	VARCHAR(30)	
ID	INT	
FILES	FILE/RECORD	
ABOUT	VARCHAR(50)	
VIDEOS	ORDVideo	
NAME	VARCHAR(25)	

SCHEDULE-

NAME	VARCHAR(30)	
DATE	DATE	
MEETING	INT	
DOWNLOAD ATTENDANCE	ORDDoc	
ABOUT	VARCHAR(30)	
TIME	TIME	
SEMESTER	VARCHAR(25)	
ASSIGNMENT	FILE	
TEACHER	VARCHAR(25)	
STUDENT	VARCHAR(25)	

Technical Specifications:

Hardware:

- **Processor:** i3 8th gen or more
- **HardDrive:** 512 GB or more
- **RAM:** 2GB or more

Software

- **Technologies:** Spring, JSP, Node Js
- **Operating System-**Windows 10/11, Eclipse EE, JDK 1.8
- **Database:** Mysql
- **Server:** Apache Tomcat, XAMM Server
- **Frontend:** Html, Css, Javascript, ReactJs
- **Browser:** Google Chrome, Microsoft Edge

