

12/15/2022

# MY CLASSROOM

**DATABASE SYSTEMS (CS-2005)**

**BS(SE) FALL 2022**

Ashar (Leader)

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## INTRODUCTION

My Classroom is a platform that introduces the concept of an e-classroom. It allows users to register and login, and provides different features depending on whether the user is a teacher or a student. Teachers have access to additional functionality such as creating and managing assignments, announcements, and classes, as well as viewing and grading submitted assignments. Students can view announcements, assignments, and grades, and submit their own assignments. It is also possible for a user to be both a teacher and a student in different classes on the platform. Only teachers have access to certain features, such as creating/editing/deleting the post and Assignments ,viewing the unique class code, removing Students from the class, and viewing submitted assignments.

# Teacher\_Info

Username	name	password	Email	Phone_no	Gender	Age	Teacher_dept	Teacher_Designation	Teacher_education	Class_id	Class_name	Course_title	Course_code	Unique_class_code
Ashar88	Ashar Saleem	9XHhJcU87TqoBw2Ud7lZew==(encrpyted)	ashar@gmail.com	0354284545	M	25	Computer Science	Professor	PHD computer Science	4	Cyber Security II	CY2-Fall 22	CY-2006	J7zsnl8XD
Faizan88	Faizan Ahmend	ZmFpemFuQWhtZWQ=	faizan@gmail.com	0234567891	M	24	Computer Science	lecturer	MS-CS	3	Database System	DB-Fall 22	CS-2005	aGFpZGVy
Haider92	Haider Ali	aGFpZGVyfab92001Q=	haider@gmail.com	0456789358	M	22	Cyber Security	Instructor	BS in Cybersecurity	2	Cyber Security	CY-Fall 22	CY-2002	muqnl5xD
Haider92	Haider Ali	aGFpZGVyfab92001Q=	haider@gmail.com	0456789358	M	22	Cyber Security	Instructor	BS in Cybersecurity	5	Programming fundamentals	CS2014-Fall 22	CS-2014	RsQtI5xB
Haider92	Haider Ali	aGFpZGVyfab92001Q=	haider@gmail.com	0456789358	M	22	Cyber Security	Instructor	BS in Cybersecurity	5	Programming fundamentals	CS2014-Fall 22	CS-2014	RsQtI5xB

Class_created_date	Class_description	Post_id	Post_title	Post_description	Post_date_created	Assignment_id	Assignment_title	A_total_marks	A_DateCreated	A_dueDate	A_description	Comment_id	Comment_text	Comment_time
2022/12/3	Cyber Security classroom	2	First lecture details CY2	(post details)	2022/12/7	3	A1	100	2022/12/7	2023/1/3	(Assignment details)	1	(text)	2022/12/15
2022/11/3	DB classroom	1	First lecture details DB	(post details)	2022/12/7	2	A1	100	2022/12/9	2023/1/3	(Assignment details)	2	(text)	2022/12/19
2022/11/3	Cyber Security classroom	3	First lecture details CY	(post details)	2022/12/9	1	A1	100	2022/12/15	2023/1/3	(Assignment details)	3	(text)	2022/12/21
2022/11/3	PF classroom	3	First lecture details PF	(post details)	2022/12/9	4	A1	100	2022/12/15	2023/1/5	(Assignment details)	7	(text)	2022/12/22
2022/11/3	PF classroom	3	First lecture details PF	(post details)	2022/12/9	4	A1	100	2022/12/15	2023/1/5	(Assignment details)	8	(text)	2022/12/23

# Student\_Info

<u>Username</u>	name	password	Email	Phone_no	Gender	Age	<u>Class_id</u>	Class_name	Course_title	Course_code	Unique_class_code	Class_created_date	Class_descript	Std_dept
Yousuf22	Yousuf Ahmed	9XHHJcU87TqoBw2Ud7IZew==(encrpyted)	yousuf@gmail.com	0354284545	M	25	2	Cyber Security	CY-Fall 22	CY-2002	muqnl5xD	2022/11/3	Cyber Security classroom	Computer Science
Haider92	Haider Ali	aGFpZGVyfab92001Q=	haider@gmail.com	0456789358	M	22	4	Cyber Security II	CY2-Fall 22	CY-2006	J7zsnl8XD	2022/12/3	Cyber Security classroom	Cyber Security
Yousuf22	Yousuf Ahmed	9XHHJcU87TqoBw2Ud7IZew==(encrpyted)	yousuf@gmail.com	0354284545	M	25	2	Cyber Security	CY-Fall 22	CY-2002	muqnl5xD	2022/11/3	Cyber Security classroom	Computer Science

<u>Std_join_date</u>	<u>Post_id</u>	Post_title	Post_descript	Post_date_created	<u>Assignment_id</u>	Assignment_title	A_total_marks	A_DateCreated	A_dueDate	A_descript	Marks_obt	<u>Comment_id</u>	Comment_text	Comment_time	<u>submission_id</u>	FileName
2022/12/5	3	First lecture details CY	(post details)	2022/12/9	1	A1	100	2022/12/15	2023/1/3	(Assignmen t details)	78	9	(text)	2022/12/15	1	Algo Assignment 4.pdf
2022/12/5	2	First lecture details CY2	(post details)	2022/12/7	3	A1	100	2022/12/17	2023/1/3	(Assignmen t details)	97	8	(text)	2022/12/15	2	Project_ERD.png
2022/12/5	3	First lecture details CY	(post details)	2022/12/9	1	A1	100	2022/12/15	2023/1/3	(Assignmen t details)	78	9	(text)	2022/12/15	3	Triggers.sql

FileSize	FileContentType	Submission_date	DownloadUrl	External_File
5.6 MB	application/pdf	2022-12-15	http://localhost:8086/download/2	(blob)
2.3 MB	image/png	2022-12-15 16:10:44	http://localhost:8086/download/3	blob
1.8 kB	application/x-sql	2022-12-15 17:29:50	http://localhost:8086/download/4	blob

## Primary Keys:

- Student\_info ( Username ,Class\_id ,Assignment\_id ,Post\_id ,Comment\_id ,submission\_id)
- Teacher\_info ( Username ,Class\_id ,Assignment\_id ,Post\_id ,Comment\_id)

## Functional Dependencies:

### Student\_info

- username -> name, password, email, phone\_no, gender, age, comment\_by, std\_dept
- class\_id -> class\_name, course\_title, Course\_Code, Unique\_Class\_code, Class\_created\_date, class\_descript
- Class\_created\_date -> Std\_join\_date, Post\_date\_created, A\_DateCreated
- post\_id-> Post\_title, Post\_descript, Post\_date\_created
- Assignment\_id -> Assignment\_title, A\_total\_marks, A\_DateCreated, A\_dueDate, A\_descript, Marks\_obt
- Comment\_id -> Comment\_text Comment\_time
- submission\_id-> FileName, FileSize, FileContentType, Submission\_date, DownloadUrl, External\_File

### Teacher\_info

- username -> name, password, email, phone\_no, gender, age, comment\_by, Teacher\_dept, Teacher\_Designation, Teacher\_education
- class\_id -> class\_name, course\_title, Course\_Code, Unique\_Class\_code, Class\_created\_date, class\_descript
- Class\_created\_date -> Post\_date\_created, A\_DateCreated
- post\_id-> Post\_title, Post\_descript, Post\_date\_created
- Assignment\_id -> Assignment\_title, A\_total\_marks, A\_DateCreated, A\_dueDate, A\_descript, Marks\_obt
- Comment\_id -> Comment\_text, Comment\_time

# Applying Normalization

## 1NF:

Already in 1NF. As columns being single valued and each row can be uniquely identified.

## 2NF:

We have already defined the Primary keys of the Relations; hence we can easily identify the partial dependencies.

### User

<u>username</u>	f_name	l_name	password	email	phone_no	gender	age
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### Teacher

<u>username</u>	department	designation	education
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### Class

<u>class_id</u>	username	class_name	course_title	Course_Code	Unique_Class_code	Date_created	descript
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### Student

<u>username</u>	<u>class_id</u>	Department	Date_joined
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### Post

<u>post_id</u>	class_id	title	descript	dateCreated
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Assignment

<u>a_id</u>	class_id	a_title	total_marks	Date_created	due_date	descript
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Grade

<u>std_username</u>	<u>assign_id</u>	marks_obtained
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Post\_comment

<u>comment_id</u>	post_id	comment_time	comment_text	comment_by
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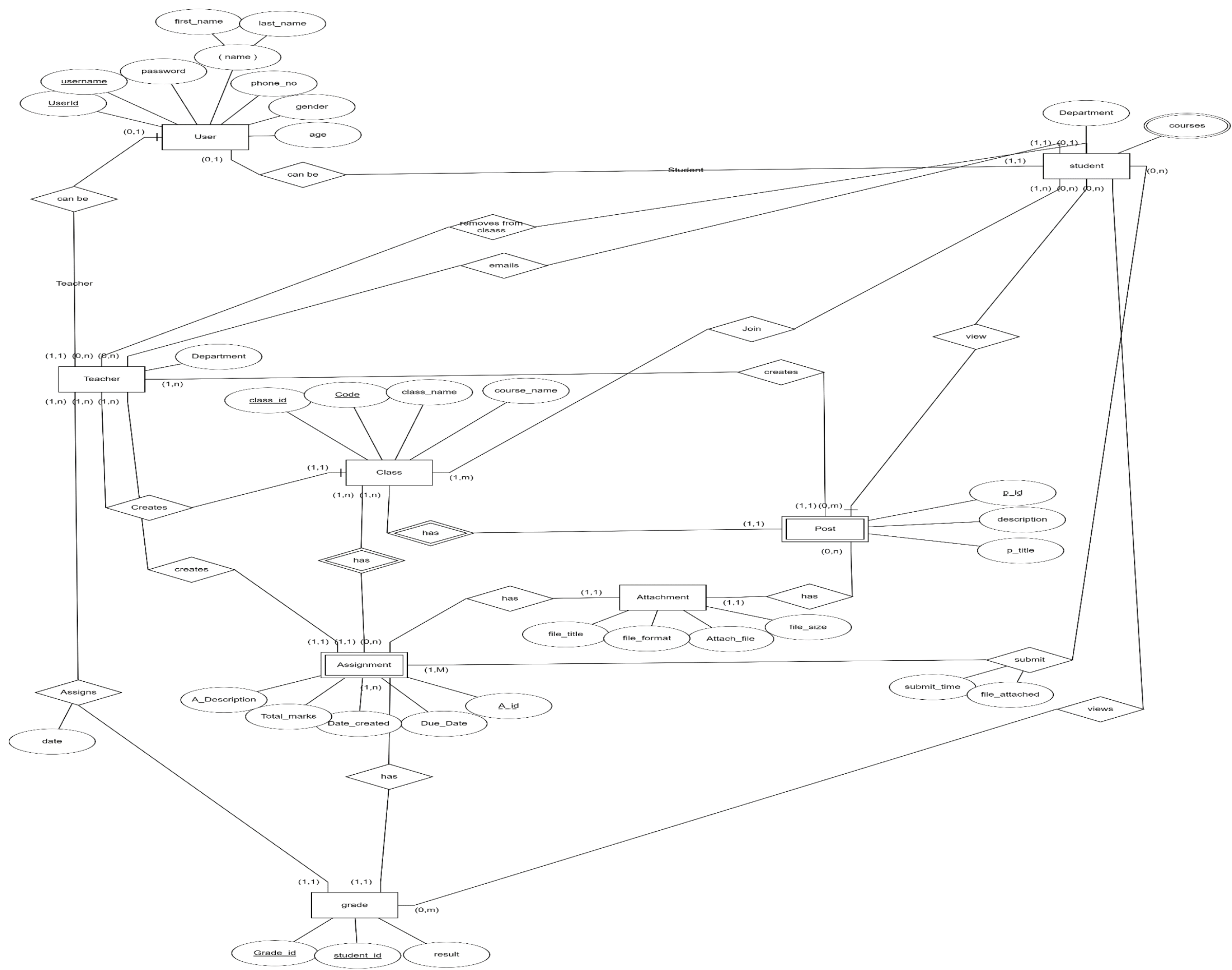
Assignment\_Submission

<u>submission_id</u>	std_username	assign_id	FileName	FileSize	FileContentType	Data_submitted	DownloadUrl	External_File
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3NF:

After 2NF, it’s already in 3NF.

ENTITY RELATIONSHIP DIAGRAM (ERD)






## FEATURES

Below screenshots are self-explanatory.



  
Sign in

Activate Windows  
Go to Settings to activate Windows.



My Classroom +

CREATE CLASS

AP-Fall 22



DB CS2005

1254

SCD



SCD

12

TBW



TBW

dfa

Activate Windows

Go to Settings to activate Windows.



My Classroom +

CREATE CLASS

AP-Fall 22

DB CS2005

1254

SCD

SCD

12

### Create Class

Programming Fundamentals

PF-Fall 22

CS-2014

Programming Fundamentals fundamentals|

SUBMIT

Activate Windows  
Go to Settings to activate Windows.



# Welcome To Programming Fundamentals

## Class Code

ujbvnhrh



Announce something to your class



Activate Windows  
Go to Settings to activate Windows.

# Welcome To Programming Fundamentals

## Class Code

ujbvnhrh

😊 Hello, This is the first post



👤 haider92 2022-12-15 18:56:44

Hello, This is the first post

DELETE

EDIT

Add class comments

Activate Windows  
Go to Settings to activate Windows.

ClassW  
+

### Create Assignment

A1

100

PF Assignment 1

2023/2/2|

SUBMIT

Activate Windows  
Go to Settings to activate Windows.

# ClassWork

## +

6A1

EDIT

DELETE

Activate Windows  
Go to Settings to activate Windows.

# Welcome to AP-Fall 22

## Class Code

1254

🗣️ Announce something to your class



👤 haider92 2022-12-12 12:33:41

hello students!

DELETE

👤 aq 2022-12-12 12:37:31

hello mam

Activate Windows  
Go to Settings to activate Windows.




## Teachers

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 haider92

## Classmates


---

 anam qureshi 

---

 Ashar Saleem 

---

 Yousuf sharif 


---

Activate Windows  
Go to Settings to activate Windows.

## Teachers

 haider92


## Classmates

 anam qureshi

DISPLAY ALL ASSIGNMENT

 Ashar Saleem

DISPLAY ALL ASSIGNMENT

 Yousuf sharif

DISPLAY ALL ASSIGNMENT

Activate Windows  
Go to Settings to activate Windows.



aq

 Assignment No:1

DISPLAY

 Assignment No:3

DISPLAY

Activate Windows  
Go to Settings to activate Windows.



Ashar88

DOWNLOAD

ASSIGN  
GRADE

Project\_ERD (1).png



Activate Windows  
Go to Settings to activate Windows.

Show all





### Assign Grade

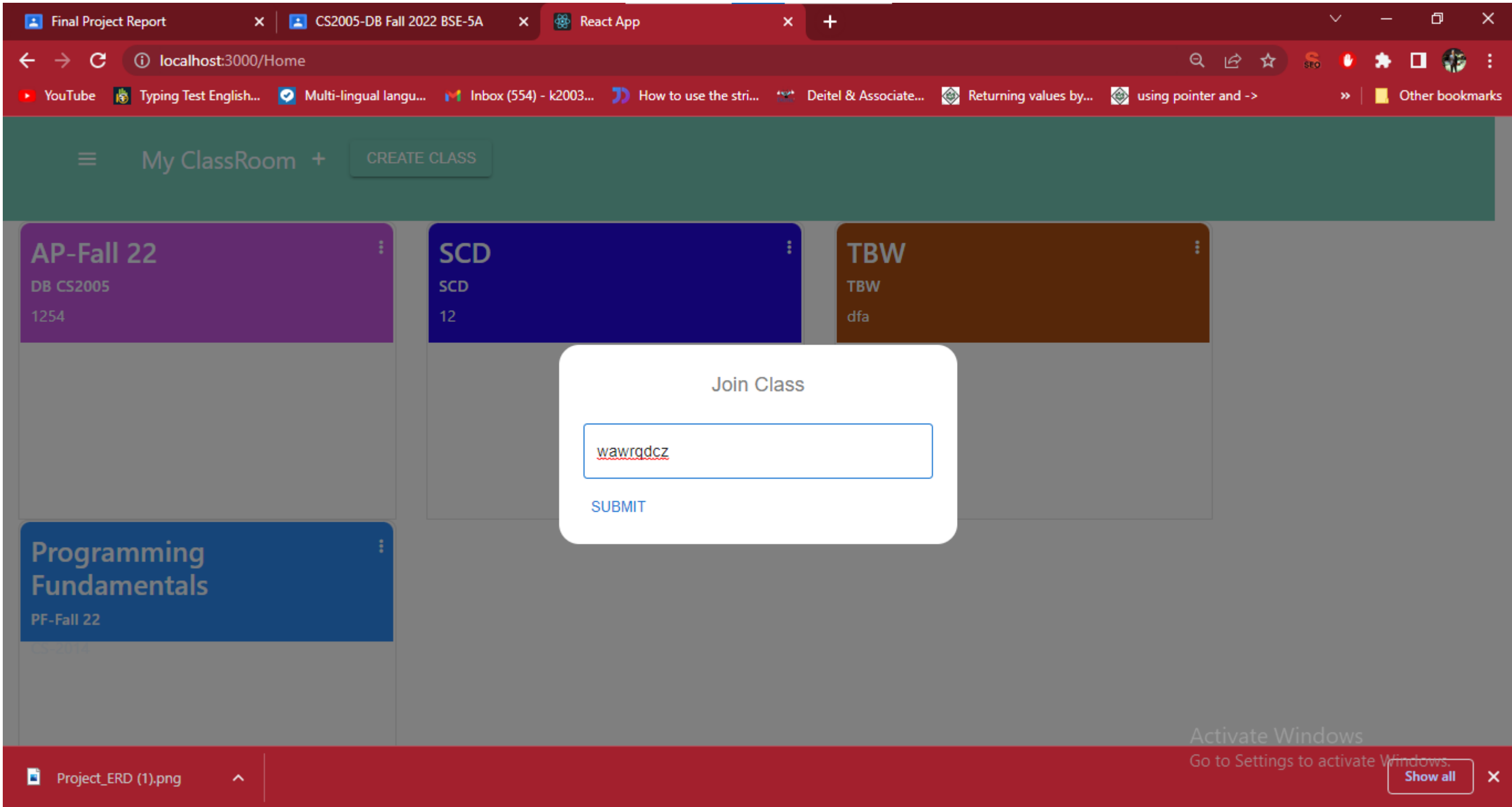
89

SUBMIT

DOWNLOAD

ASSIGN  
GRADE





## Assignment

haider92

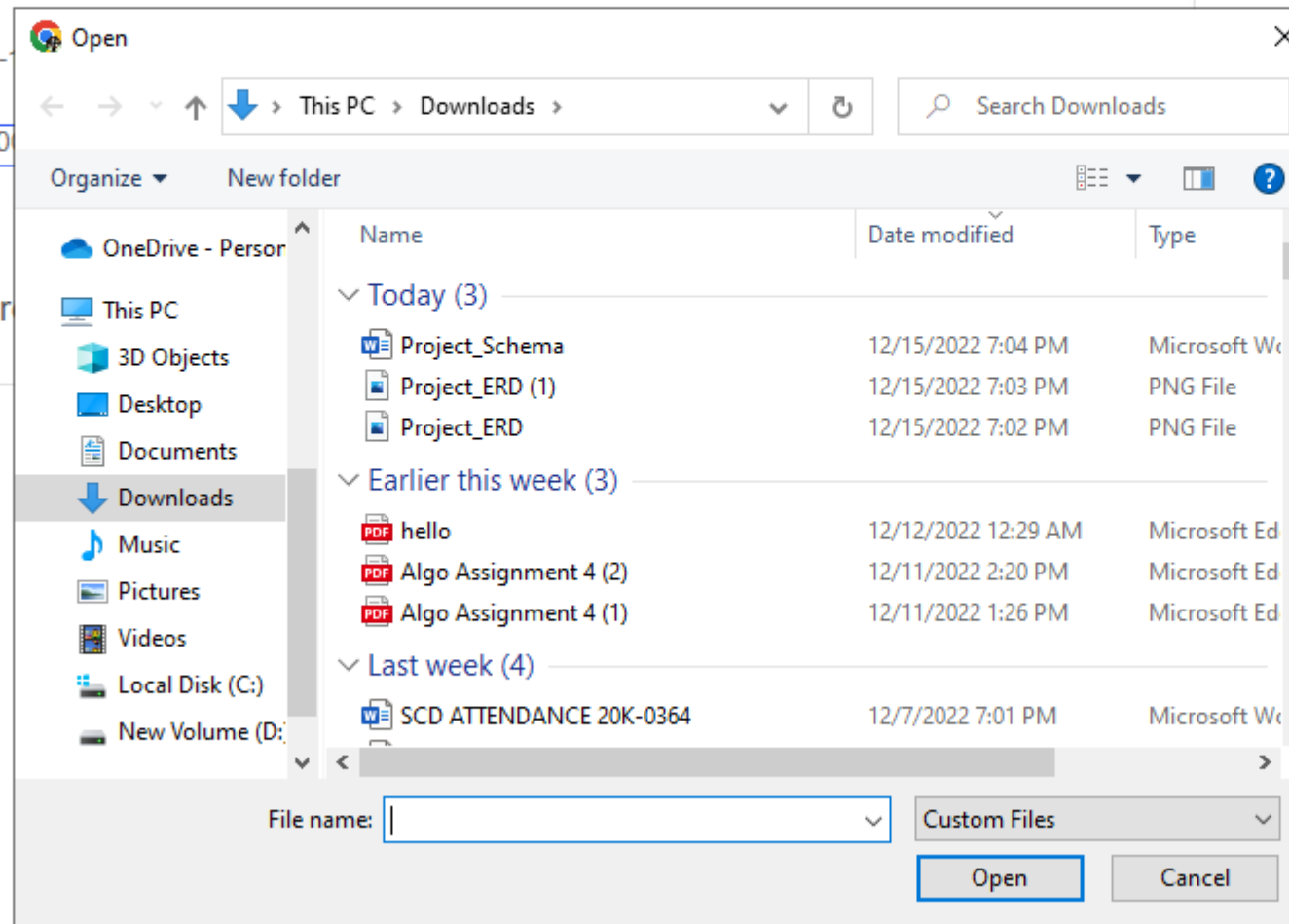
**Date Created:**2022-12-15 07:04 PM

**Marks:**100

**Due Date:**2022-12-27 07:04 PM

## Description

First Assignment her



## Your work

Status

UPLOAD

Activate Windows  
Go to Settings to activate Windows.