



IT320
Software Engineering
TAO FITNESS
Final Report

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INTRODUCTION

The physical activities in all shapes are very important to the human health and when we talk about physical activities we mean by aerobics. With the technologies we're facing these days there are hardly enough trusted sources in the internet that offers free fitness classes. So, in order to solve this problem we built a system that helps the people who are looking for free and trusted fitness classes and fitness trainers who are willing to volunteer. Our system provides each of the trainers and trainees several services. Where firstly, the system allows the Trainers to add courses and modify them, and allows the Trainers to view their trainees. Secondly, the system allows the trainees to enroll courses and drop them. Moreover, trainees can calculate their BMI through our website and can get the needed feedback about their BMI. Finally, all users can see the number of the visitors.

USER CHARACTERISTICS

User As a Trainer:

The user can be either male or female.

The user must have at least 2 years of experience or an educational training degree.

The age of the user should be 21+ with good health.

The user must be familiar with technology.

User As a Trainee:

The user can be either male or female.

The user should be interested in fitness and aerobics

The age of the user must be 18+ with good health.

The user must be familiar with technology.

REQUIREMENTS DETERMINATION

Literate Review

Criteria	https://athleticlab.online/	https://sportsedtv.com/	https://www.sportcoach.com.au/
Appearance	The website is organized. and all the links works. but the colors of the font are annoying .	The website is very well organized and, all the links works and the design is comfortable and Professional	The website is very well organized and, all the links works, and the design is comfortable and Professional
Authority	Clear who is responsible for Web sites , contact information not clearly provided and they are not accurate about Their information	Its clear who are The leadership team and who is responsible for Web sites and there are enough information about the coaches	It doesn't clear who developed the site and who is responsible for it ,they provide information about the educators
Currency	All the information are updated including the copy write and the certificate . and it was clear when the site created	All the information are updated and the site always in update including the copy write and the certificate .and it doesn't clear when the site created	The website not updated , the certificate is updated , and it doesn't clear when the site created
Coverage	The site is selective, some links go outside the site and it doesn't provide information with no relevant outside links	The site is comprehensive in sports .the site is complete and it does not need to outside links , comparing to the previous site the value of the information is higher	The site is selective ,They don't have about us page , some links go outside the site ,and the website doesn't include about us page. provide a high value information .
Accuracy	they are not accurate about courses information . misleading mean idea of this website is making money . the text does not follow basic rules of grammar and spelling	the information seem accurate and the resources are very clear , the text follows basic rules of grammar and spelling	They are accurate about the courses and the outcome of it and all of the information seem accurate .provide resources , the text follows basic rules of grammar and spelling

SUMMARY:

Appearance : all the websites are organized and all the links on them are working .

Authority : the first two were very clear about who is responsible for the website which made them more trustworthy .

Currency : the information in the first two were updated and the information about when it was created was exacted which give the websites integrity .

Coverage : the collected information about this Criteria is various the third website fulfill the concept by being complete without outside links .

Accuracy : the last two website are accurate their information unlike the first website it was not accurate even about the profit services which makes it untrusted and

In the conclusion our website has to cover all the links without outside links and the links has to be working and the appearance most be organized and we have to provides the viewers all the information they need about who is responsible and the copy right and since when we started and the information in our website has to be accurate and trusted.

Interview

Q1) Would you rather sign up to an online training platform than going to a gym? why?

- Yes, it would save me a lot of time doing my training at home also it would be available anytime i want.

-Yes I would. Its much easier.

Q2) Would you like to have a group chat with all the trainees?

- No I'd rather not.

-No.

Q3) What do you think about having one trainer for each course?

- I think it wouldn't matter as long as they deliver the lesson right.

-It would be better but its not that important.

Q4) How do you want to decide your goal from the course?

- I want to decide my goal from the enrolled course by checking the BMI after each 3-4 lessons to see the difference

-Obtain a healthy lifestyle.

Q5) What would you like the website to provide?

- The ability to download the videos to watch offline.

-The ability to enroll in multiple courses.

SUMMARY:

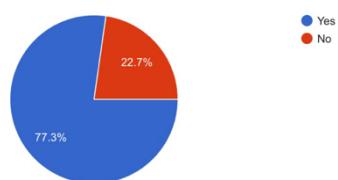
Madawi interviewed Basmah and Elaf, they are both Bachelor Students "Information Technology" and 21 years old

After the interview, we concluded from the interviewees, the user's requirements. We came up from our conclusions toward the interview, that the users (trainees) preferred an online training platform since it can save them a lot of time and it would be available to them at all time. However, they made sure that they rather not have a group chat with other enrolled trainees. The users (trainees) pointed out the importance of the right delivery of the lesson, they didn't care much regarding having multiple

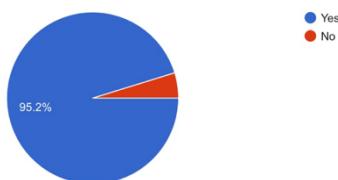
trainers for one course. In addition, they wanted to include a BMI calculator to follow their progress after a couple of lessons to pursue their healthy goal. Lastly, they requested to have the ability to download the training videos so they can be able to watch it when they're offline and enroll in multiple courses. In conclusion, the user's (trainees) were very thrilled to finally come across an online training platform where it can change their lifestyle so effortlessly.

Questionnaire

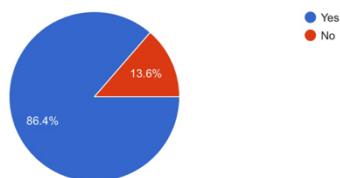
Do you have a problem in finding a trainer?



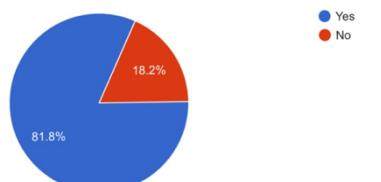
Do you prefer to have a record of your progress?



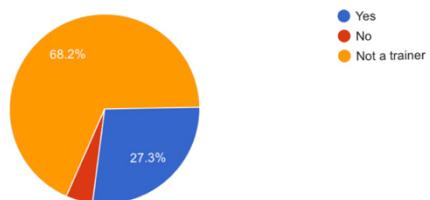
Would you be interested in making a weekly schedule?



Would you prefer to rate and review instructors?



As a trainer, do you find any difficulties in finding a platform that meets your fitness requirements?



SUMMARY:

After gathering the answers of 22 people, we concluded that users(trainees) face a problem in finding a trainer, and also trainers find it difficult to find the right fitness platform. In addition, the results show that trainees would prefer to have a record of their progress and a weekly schedule. While some of them would prefer to rate and review the trainers.

SPECIFIC REQUIREMENTS**Functional Requirements**

1. The Trainer shall be able to log in into the system .
 - 1.1 The system shall allow the Trainer to enter email .
 - 1.2 The system shall allow the Trainer to enter password .
 - 1.3 The system shall validate the entered information.
 - 1.4 The system shall indicate that there is invalid input if the Trainer enters invalid input.
 - 1.5 The system shall confirm the logging-in by opening the Trainer home page.
2. The Trainer shall be able to add a new course.
 - 2.1 The system shall allow the Trainer to enter course name.
 - 2.2 The system shall allow the Trainer to enter course field.
 - 2.3 The system shall allow the Trainer to enter course description.
 - 2.4 The system shall validate the entered information.
 - 2.5 The system shall indicate that there is invalid input if the Trainer enters invalid input.
 - 2.6 The system shall confirm the addition by opening the Trainer home page with the added course.
3. The Trainer shall be able to view all the courses he teaches from his home page.
4. The Trainer shall be able to edit course from his home page.
5. The Trainer shall be able to view the enrolled Trainees for each course he teaches.
 - 5.1 The system shall display the course name of the selected list.
 - 5.2 The system shall display list contain Trainees' names and IDs' of the enrolled Trainees.
6. The Trainer shall be able to view every single course in dividedly in separate page.
 - 6.1 The system shall display the course name of the selected course.
 - 6.2 The system shall display the description name of the selected course.
 - 6.3 The system shall allow the Trainer to edit the course.
7. The Trainer shall be able to log-out.
8. The Trainees shall be able to sign up into the system.
 - 8.1 The system shall allow the Trainees to enter name.
 - 8.2 The system shall allow the Trainees to enter username.
 - 8.3 The system shall allow the Trainees to enter email.
 - 8.4 The system shall allow the Trainees to enter password.
 - 8.5 The system shall validate the entered information.
 - 8.6 The system shall allow the Trainees to confirm the password by enter it again.
 - 8.7 The system shall indicate that there is invalid input if the Trainees enters invalid input.
 - 8.8 The system shall confirm the sign-up by opening the Trainees log-in page.
9. The Trainees shall be able to log in into the system.
 - 9.1 The system shall allow the Trainees to enter email.
 - 9.2 The system shall allow the Trainees to enter password.

- 9.3 The system shall validate the entered information.
- 9.4 The system shall indicate that there is invalid input if the Trainees enters invalid input.
- 9.5 The system shall confirm the logging-in by opening the Trainees home page.
- 10. The Trainees shall be able to view all the courses in his home page.
 - 10.1 The system shall allow the Trainees to drop a course from the home page.
 - 10.2 The system shall allow the Trainees to enroll to course from the home page.
- 11. The Trainees shall be able to view course.
 - 11.1 The system shall display the course name of the selected course.
 - 11.2 The system shall display the course description of the selected course.
 - 11.3 The system shall allow the Trainees to enroll to the course if he didn't enroll in.
 - 11.4 The system shall allow the Trainees to drop the course if he enrolled.
- 12. The Trainees shall be able to review the Trainers.
 - 12.1 The system shall allow the Trainees to select the Trainer name from drop-down list.
 - 12.2 The system shall allow the Trainees to rate the Trainer by select from 1-5 (radio-button).
- 13. The Trainees shall be able calculate his BMI (Body Mass Index).
 - 13.1 The system shall allow the Trainees to enter his Weight (kg).
 - 13.2 The system shall allow the Trainees to enter his Height (cm).
 - 13.3 The system shall be able to calculate the BMI by this formula $BMI = \frac{kg}{m^2}$.
 - 13.4 The system shall be able to display the BMI and its evaluation.
- 14. The Trainees shall be able to log-out.

Non Functional Requirements

The website shall be able to interface with any HTML browser.

The website shall be able to handle 20 thousand users at the same time without affecting its performance

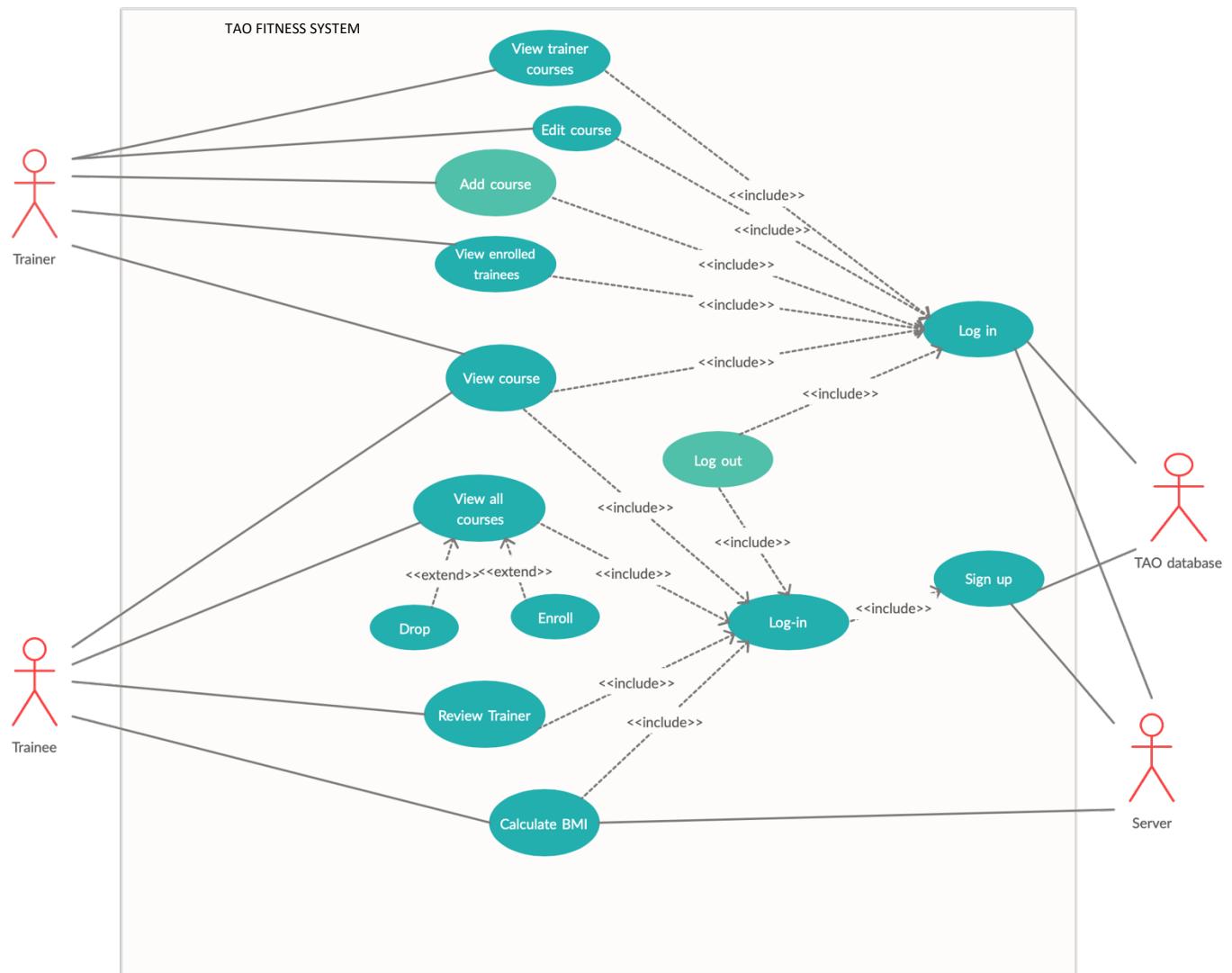
The website shall not be shut down for maintenance more than 1 hour in a 24-hour period.

The website shall be accessible through mobile phones, tablets and computers without creating any problem.

The website shall not be use pictures and icons that could be considered offensive in Saudi Arabia.

REQUEST MODELLING DESIGN

Scenario Based Models



Use Cases

Use case Name: sign up		
Actor	Trainee	
Purpose	Allow the trainee to sign up in the system	
Overview	This use case begins when a trainee wants to sign up in the website, the trainee enters the required information and the system validates it. then the system creates an account for the trainee.	
Cross References	R8.1, R8.2, R8.3, R8.4, R8.5, R8.6, R8.7, R8.8	
Type	primary and essential	
Typical Course of Events	User Actions	System responses
	1. Use case begins when the user wants to sign up the system	2.The system will ask the user to enter the required information.
	3. The user enters username, email, password and his/her full name.	4.The system will validate that the required fields are not empty and the inputs are correct.
		5.The system will redirect the user to his homepage.
Alternatives: In step 4, if any data is missing or incorrect the system will ask you to fill out the missing field.		

Use case Name: Log-in	
Actor	Trainee/Trainer
Purpose	Allow the trainer\trainee to log in the system
Overview	This use case begins when a user wants to log in the system, the user enters the required information and the system validates it.
Cross References	R1.1 ,R1.2, R1.3, R1.4, R1.5, R9.1, R9.2, R9.3, R9.4, R9.5
Type	Primary
Typical Course of Events	User Actions
	1. Use case begins when the user wants to log in
	2.The system will ask the user to enter the required information.
	3. The user will enter his E-mail and password
	4. The system will redirect the user to his homepage
Alternatives: In step 3, if any data is wrong or missing the system will ask you to repeat the entries	

Use case Name: View course	
Actor	Trainee/trainer
Purpose	Allow the trainee/trainer to view course information
Overview	This use case begins when a user wants to view course information
Cross References	R6.1, R6.2, R6.3, R11.1, R11.2, R11.3, R11.4
Type	Essential
Typical Course of Events	User Actions
	1. Use case begins when the user wants view course information
Alternatives:	

Use case Name: Enroll in course	
Actor	Trainee
Purpose	Allow the trainee to enroll to new courses
Overview	This use case begins when a user wants to enroll to a new course in the system.
Cross References	R10.2
Type	Essential
Typical Course of Events	User Actions
	1. Use case begins when the user wants to enroll to a new course
	3. The user will press enroll.
	2.The system will show available courses 4.The system will add the course to the user's list
Alternatives:	
Use case Name: Drop course	
Actor	trainee
Purpose	Allow the trainee to drop any course

Overview	This use case begins when a user wants to drop a course.	
Cross References	R10.1	
Type	Essential	
Typical Course of Events	User Actions	System responses
	1. Use case begins when the user wants to drop any course	2.The system will show available courses
	3. The user will press “drop”.	4.The system will drop the course from the user’s list
	Alternatives:	

Use case Name: View all courses	
Actor	Trainee
Purpose	Allow the trainee to view all available courses.
Overview	This use case begins when a user wants to view the courses.
Cross References	R10.1, R10.2
Type	Primary
Typical Course of Events	User Actions
	1. Use case begins when the user wants to view available courses.
	2. The system will show available courses

Use case Name: Review trainer	
Actor	Trainee
Purpose	Allow the trainee to rate trainers.
Overview	This use case begins when a user wants to rate a trainer.
Cross References	R12.2, R12.2
Type	Essential
Typical Course of Events	User Actions
	1. Use case begins when the user wants rate a trainer
	2. The system will allow the user to rate the trainer by choosing from 1-5.
	3. The user will choose the rating.
	4. The system will add the rating to the trainer in the course information page.
Alternatives:	

Use case Name: Calculate BMI.		
Actor	Trainee	
Purpose	Allow the trainee to calculate BMI.	
Overview	This use case begins when a user wants to calculate his BMI.	
Cross References	R13.1, R13.2, R13.3, R13.4	
Type	Essential	
Typical Course of Events	User Actions	System responses
	1.This use case begins when a user wants to calculate his BMI.	2.The system will ask the user to enter the required information.
	3. The user enters his weight and height.	4.The system will calculate the BMI and displays it to the user.
Alternatives:		

Use case Name: View trainer courses	
Actor	Trainer
Purpose	Allow the trainer to view his courses.
Overview	This use case begins when a user wants to view his courses.
Cross References	R3
Type	Primary
Typical Course of Events	User Actions
	1. Use case begins when the user wants to view his courses.
	System responses
	2. The system will show all user's courses.

Use case Name: Edit course.		
Actor	Trainer	
Purpose	Allow the trainer to edit course.	
Overview	This use case begins when a trainer wants to edit a course.	
Cross References	R4	
Type	Essential	
Typical Course of Events	User Actions	System responses
	1. Use case begins when the user wants to edit a course.	2.The system will allow the trainer to edit course name, description and content.
	3. The user will update the course information.	4.The system will apply the changes to the course information page.
	Alternatives:	

Use case Name: Add course.		
Actor	Trainer	
Purpose	Allow the trainer to add a new course.	
Overview	This use case begins when a trainer wants to add a course.	
Cross References	R2.1, R2.2, R2.3, R2.4, R2.5, R2.6	
Type	Essential	
Typical Course of Events	User Actions	System responses
	1. Use case begins when the user wants to add a course.	2. The system will ask the user to enter the required information.
	3. The user will enter the course name, field and description.	4. The system will add the course to the trainer's home page.
Alternatives:		

Use case Name: View enrolled trainees.	
Actor	Trainer
Purpose	Allow the trainer to view enrolled trainees.
Overview	This use case begins when a trainer wants to view a list of all enrolled trainees.
Cross References	R5.1, R5.2
Type	Essential
Typical Course of Events	User Actions
	1. Use case begins when the user wants view enrolled trainees.
	3. The user will press "Display trainees list"
	2.The system will display trainee listings for each course. 4.The system will redirect the trainer to the list.
Alternatives:	

Use case Name: Logout	
Actor	Trainee/trainer.
Purpose	Allow the user to sign out from the system
Overview	This use case begins when a user wants to sign out from the system.
Cross References	R7, R14
Type	Primary
Typical Course of Events	User Actions
	1. Use case begins when the user wants to sign out
	2. The system shows the sign out button
	3. The user will press the sign out button
	4. The system will redirect the signed-out user to the homepage
Alternatives:	

User stories

As a Trainer, I want to log-in in so that I can access my trainer account
As a Trainer, I want to view trainer courses so that I can edit my courses
As a Trainer, I want to edit courses so that I can manage my courses information
As a Trainer, I want to add courses so that I can pursue with my training knowledge
As a Trainer, I want to view enrolled trainees so that I can be full aware of who's enrolled in my course
As a Trainer, I want to view a course so that I can view the courses descriptions
As a Trainer, I want to log-out so that I can end my session

As a Trainee, I want to sign-up so that I can be a part of the training platform
As a Trainee, I want to log-in so that I can access my trainee account
As a Trainee, I want to view all courses so that I have the ability to enroll into a course
As a Trainee, I want to view all courses so that I have the ability to drop any of the enrolled courses
As a Trainee, I want to review my trainers so that I can give my opinion to other trainees
As a Trainee, I want to calculate my BMI so that i can keep track of my progress
As a Trainee, I want to log-out so that I can end my session

DESIGN INTRODUCTION

In this document we are going to represent the System Design Document (SDD) that shows how the software system will be structured to satisfy the requirements identified in the software requirements specification. It is a translation of requirements into a description of the software structure, software components, interfaces, and data necessary for the implementation phase. This document provides a project design for our system that depends on previous Software Requirements Specification (SRS) document. The main intended audiences for this document are programmer and tester. In this document will be providing System Overview, system Detailed architecture design (our architecture and why) , component design (class diagram, activity diagram) , System Design and Data Design (which are ER diagram and Database Schema). After that we will provide Interface Design (which contains User Interface Design Overview, Navigation Hierarchy and User Function Interfaces).

USER INTERFACE DESIGN OVERVIEW

The user interface designers considered how our users are using our platform to achieve their training goals via online courses, so they made sure that the interface design would be as simple as possible considering there are many who might not have the experience with online courses. The user interface designers also contemplated the platforms colors and backgrounds where they wanted it to be as much relaxing to the users eyes. Our designers have added to the platform the number of visitors that visits the website to the publics eyes to show the popularity of the platform. Furthermore, they added a BMI calculator to calculate the body mass of those who are members in the training platform. Lastly, the designers added the add and edit courses for the instructors to use to fulfill their teaching career as easy as possible.

SYSTEM ARCHITECTURE

Since " Tao Fitness" is a website serves different and multiple clients and they all need to share and user the same resources and the system need a host to divide the privilege and manages the resources and services between the different type of the client so that chose the (client server architecture) because this architecture accept many requests from multiple clients at the same time and respond to many requests at the same time over the network and this is what our system need .

We have not used the MVC model because our instruction is simple and MVC will cause code complexity and since we want our system to be fast we didn't use the layered model because the Performance can be a problem because of multiple levels of interpretation of a service request as it is processed at each layer.

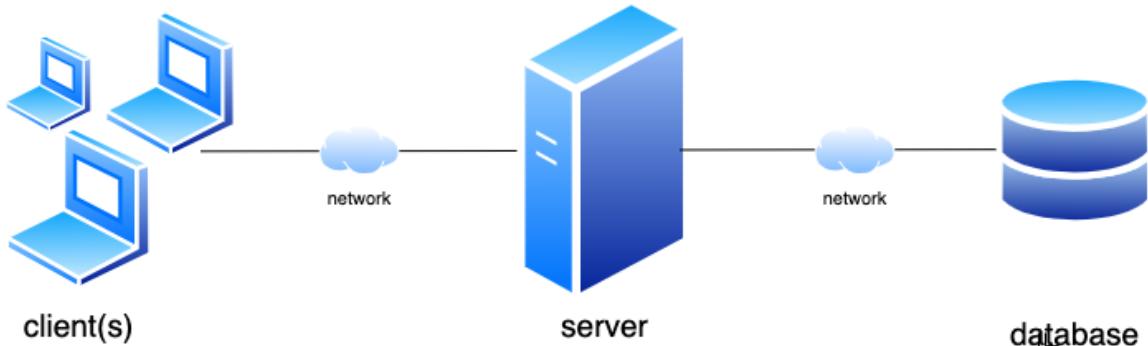
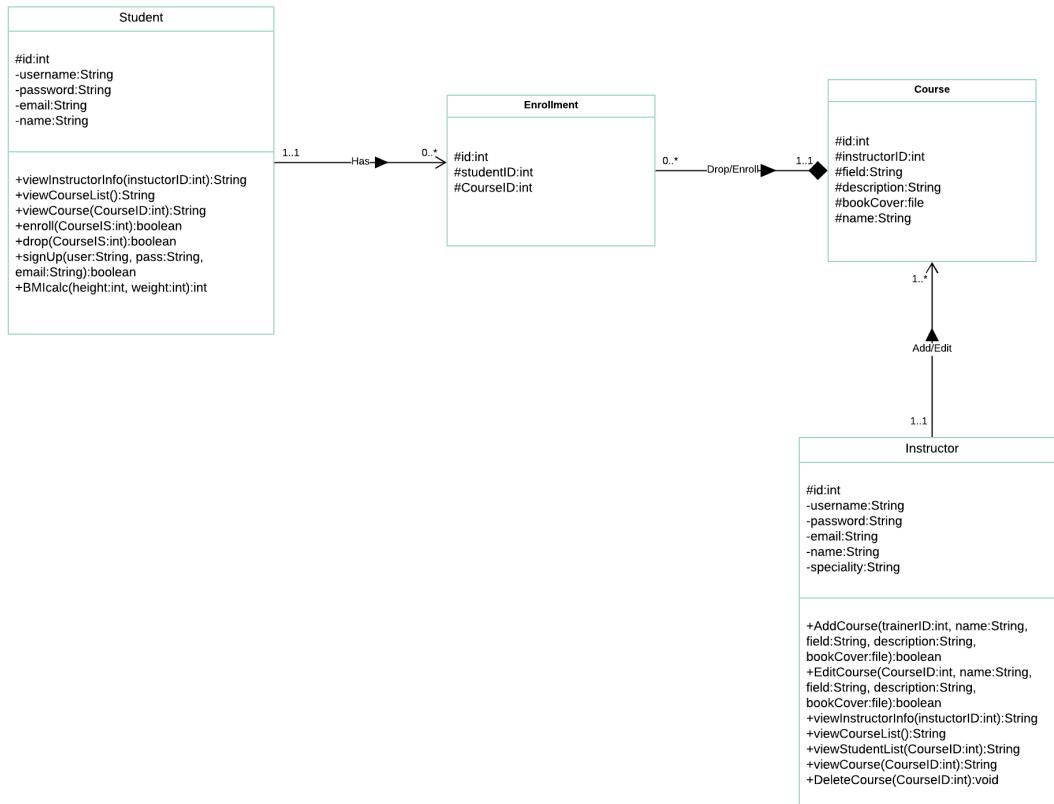
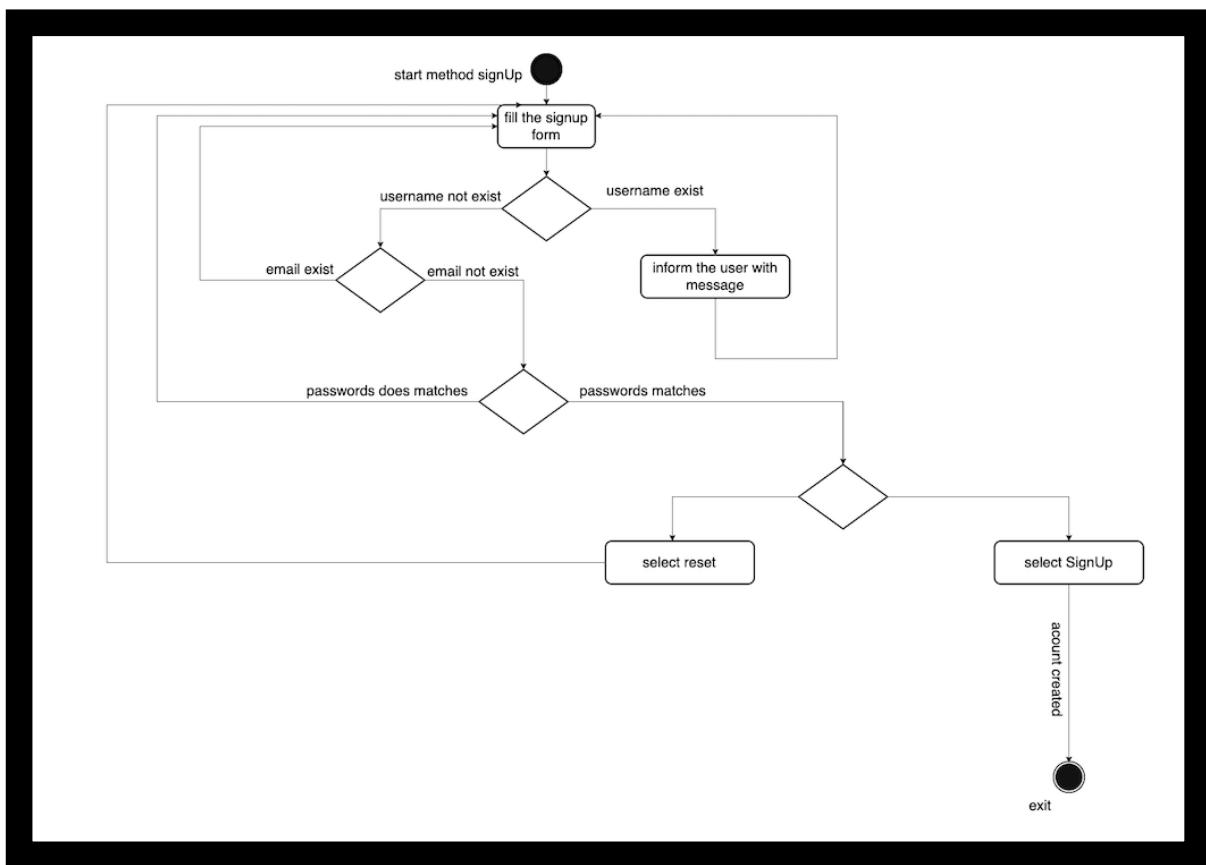


Figure.1 SYSTEM ARCHITECTURE

COMPONENT LEVEL DESIGN

Class diagram



SIGNUP**Figure.1 COMPONENT LEVEL DESIGN**

Add course

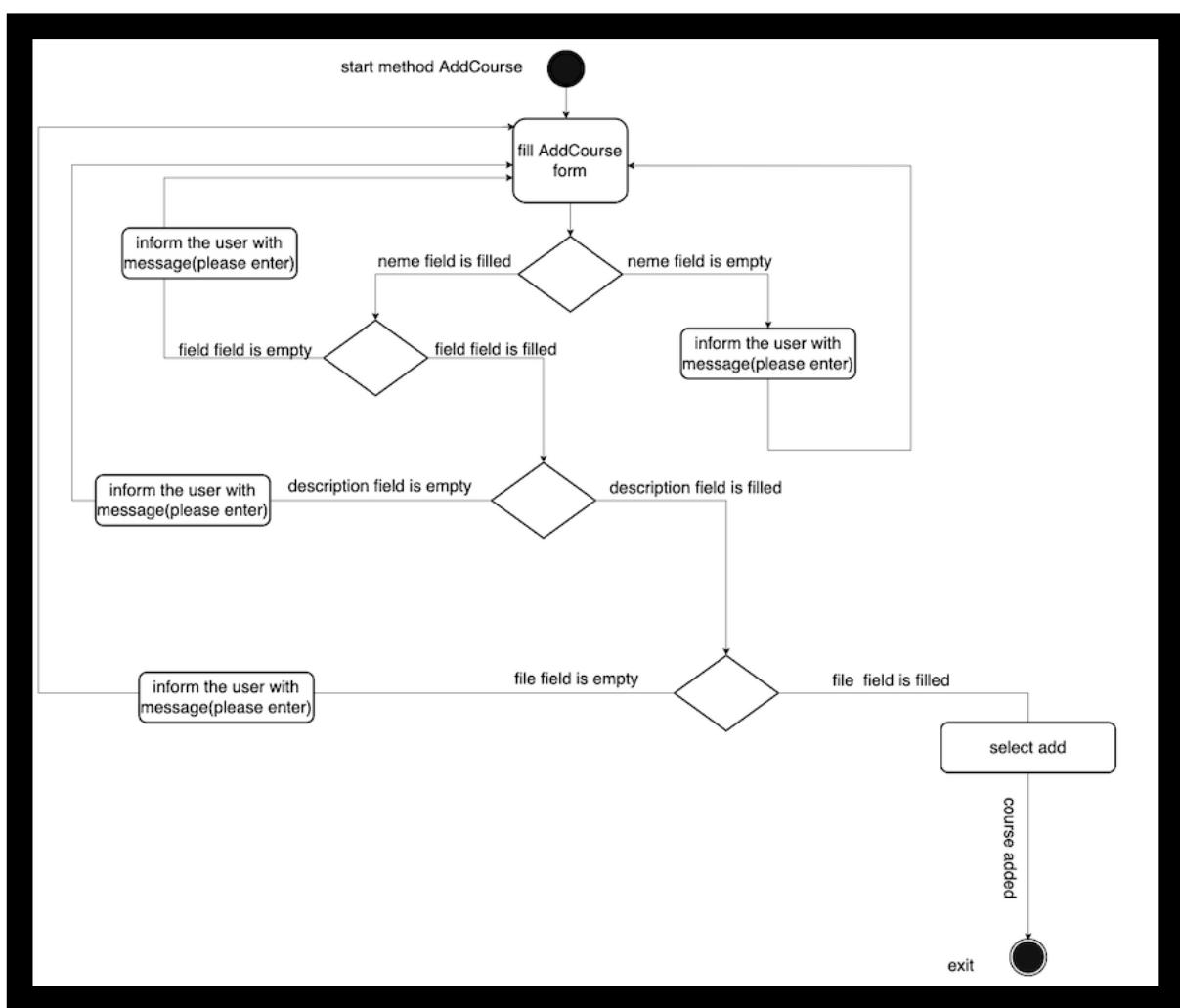


Figure.2 COMPONENT LEVEL DESIGN

Edit course

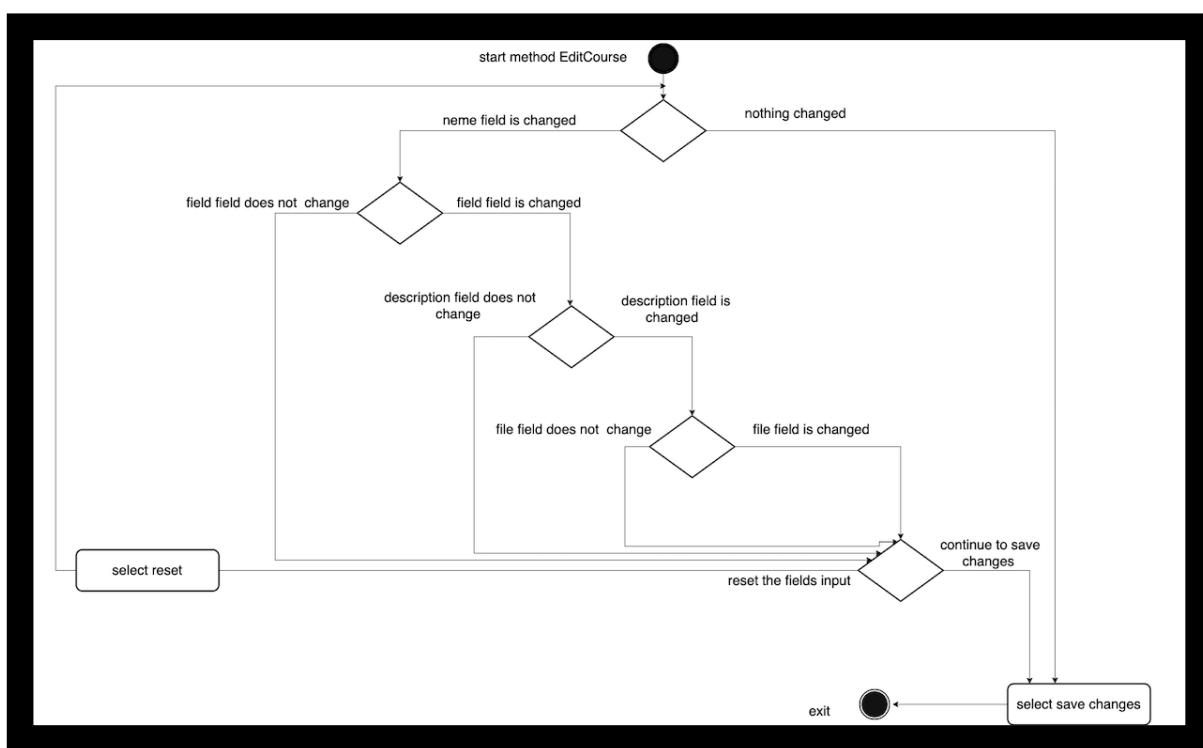


Figure.3 COMPONENT LEVEL DESIGN

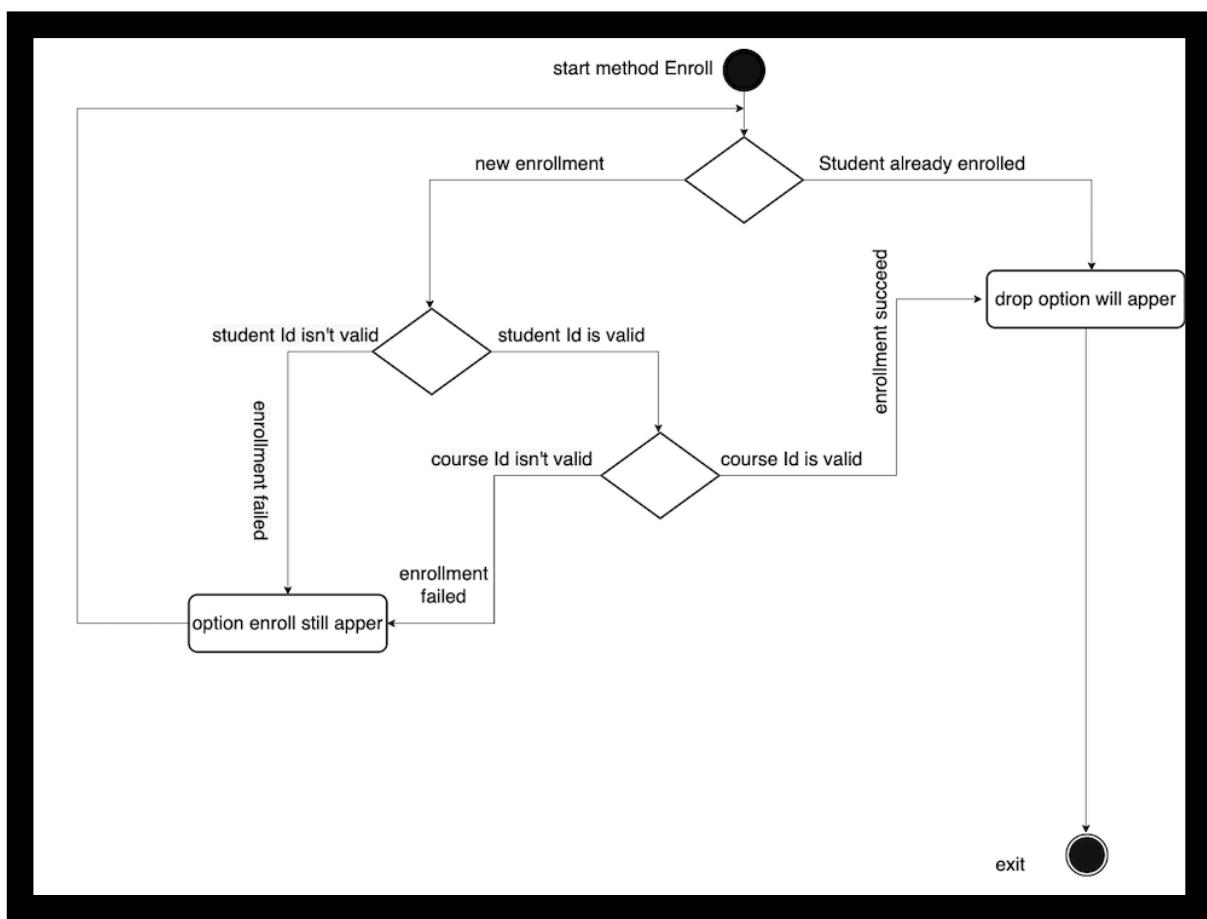
Enroll

Figure.4 COMPONENT LEVEL DESIGN

USER INTERFACE NAVIGATION HIERARCHY



DETAILED SYSTEM DESIGN

Register

Classification

Function.

Definition

The user will be able to register in the system by providing username, full name, Email and password.

Responsibilities' Reference

1

Constraints

Pre condition: the user doesn't have an account.

Username and email must be valid and not be used before.

The user should be warned if his/her information were not valid.

Post condition: the user profile page will open and the information will be saved in the database.

Cancel button will be provided.

Composition

None.

Resources

Database.

Processing

The user clicks on the register button and fills his/her information (username ,full name ,Email, password) then clicks sign up if it's not valid or existing or empty the user will be warned otherwise the registration will be complete and the user profile page will open.

Pseudocode

1. Enter information, when the user clicks the Register button
 2. IF the username or Email exists THEN,
 3. Notify the user that it already exists.
 4. Enable the user to enter the information again.
 5. ELSE IF any of the textboxes are empty THEN
 6. Notify the user
 7. ELSE IF the password and Confirm password text boxes don't match THEN
 8. Notify the user.
 9. ELSE IF the Email or password text boxes are in the wrong format THEN
 10. Notify the user.
 11. ELSE IF the user cancels the registration operation THEN
 12. Exit the registration page
 13. Else
 14. Create account with the given information on the database, and no enrolled classes.
 15. Proceed to the user's Homepage through the created account.
- End if

Add Course

Classification

Function.

Definition

The user will be able to add a new course by entering title, field, description and select an image file.

Responsibilities' Reference

2

Constraints

Pre condition: the user must be registered.

The course shouldn't be existing already if so the user will be notified.

The information entered should be valid and not empty.

Post condition: the course information page will open and a new course with the given information is created in the database.

Back button will be provided.

Exit button will be provided.

Composition

None.

Resources

Database.

User/Interactions

Class course and class instructor interact when an instructor wants to add a new course in the system.

Processing

The user clicks on the add course button and fills the required information(title, field, description and selecting an image file) then clicks insert if it's not valid or existing or empty the user will be warned otherwise adding the course will be successful and the course information page will open.

Pseudocode

1. Enter title, field , description and select an image file, then user clicks the insert button
2. IF the combination of title, field and description and select an image file exists THEN
3. Notify the user PRINT “ the course already exists”.
4. Enable the user to enter another title, field , description and select an image file.
5. ELSE IF the textboxes contains special characters THEN
6. Notify the user PRINT “except only characters”.
7. ELSE IF the title or field or file or description boxes or file has no value THEN
8. Notify the user PRINT “ fill all the fields”.
9. ELSE IF (the user click on the Back button) THEN
10. Proceed to the instructor home page

System Testing

Page

6

11. ELSE IF (the user cancelled the insertion operation by log-out) THEN
 12. no changes
 13. Proceed to the index page.
 14. ELSE
 15. Create a new course with the given title, field , description and select an image file on the database..
 16. Proceed to the course information page ,where the changes appear.
- End if

Edit Course

Classification

Function.

Definition

The user will be able to perform changes to an available course.

Responsibilities' Reference

3

Constraints

Pre condition: the user must be registered, the course must be available.

The information entered should be valid and not empty.

Post condition: the course information page will open and the data is updated in the database.

Back button will be provided.

Exit button will be provided.

Composition

None.

Resources

Database.

User/Interactions

Class course and class instructor interact when an instructor wants to edit his/her course in the system.

Processing

The user clicks on the edit course button and fills the required information then clicks save changes button if the information not valid or empty the user will be warned otherwise editing the course will be successful and the course information page will open with the updates.

Pseudocode

1. Retrieve the specified course information into the edit form when the user clicks on edit button.
2. IF the user clicked submit button without filling the form THEN
3. notify the user to fill in the required information.
4. ELSE IF the user clicked the submit button after modifying the required information THEN
5. It will redirect him to the Course Information page with the updated data
6. ELSE IF the user missed filling in fields THEN

System Testing

Page

7

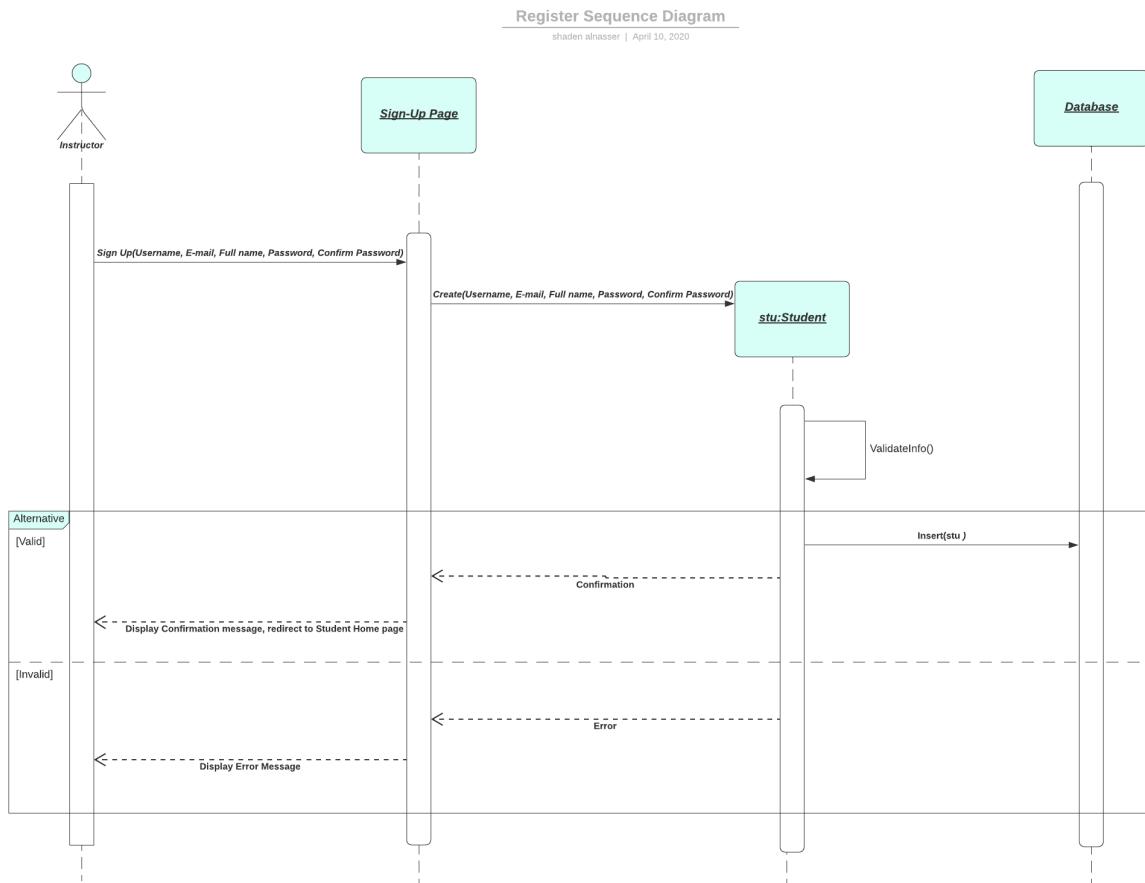
7. The user will be notified to fill in the uncompleted fields
8. ELSE IF the user clicked on back button THEN
9. A redirection to the Instructor home page will occur

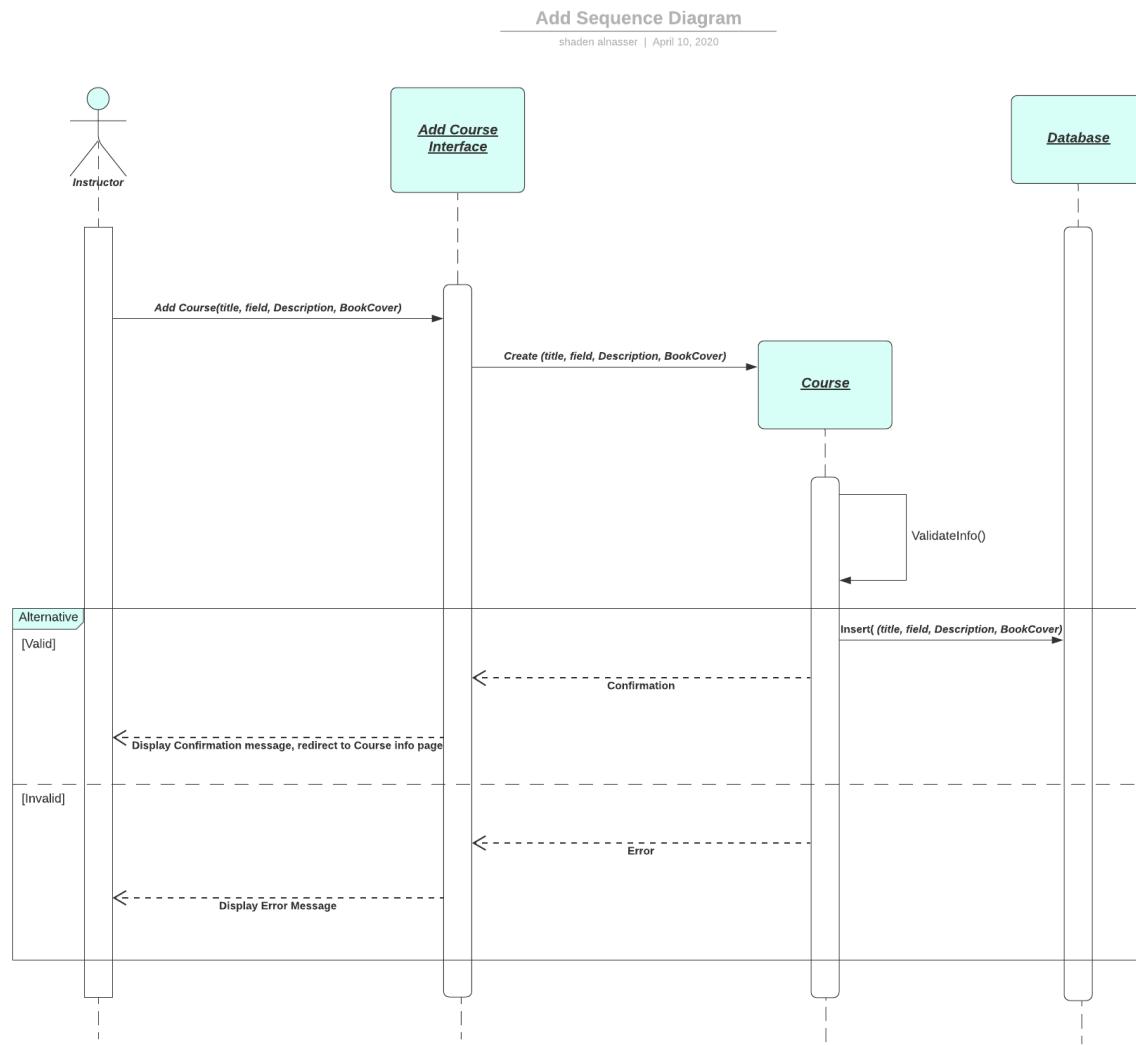
END IF

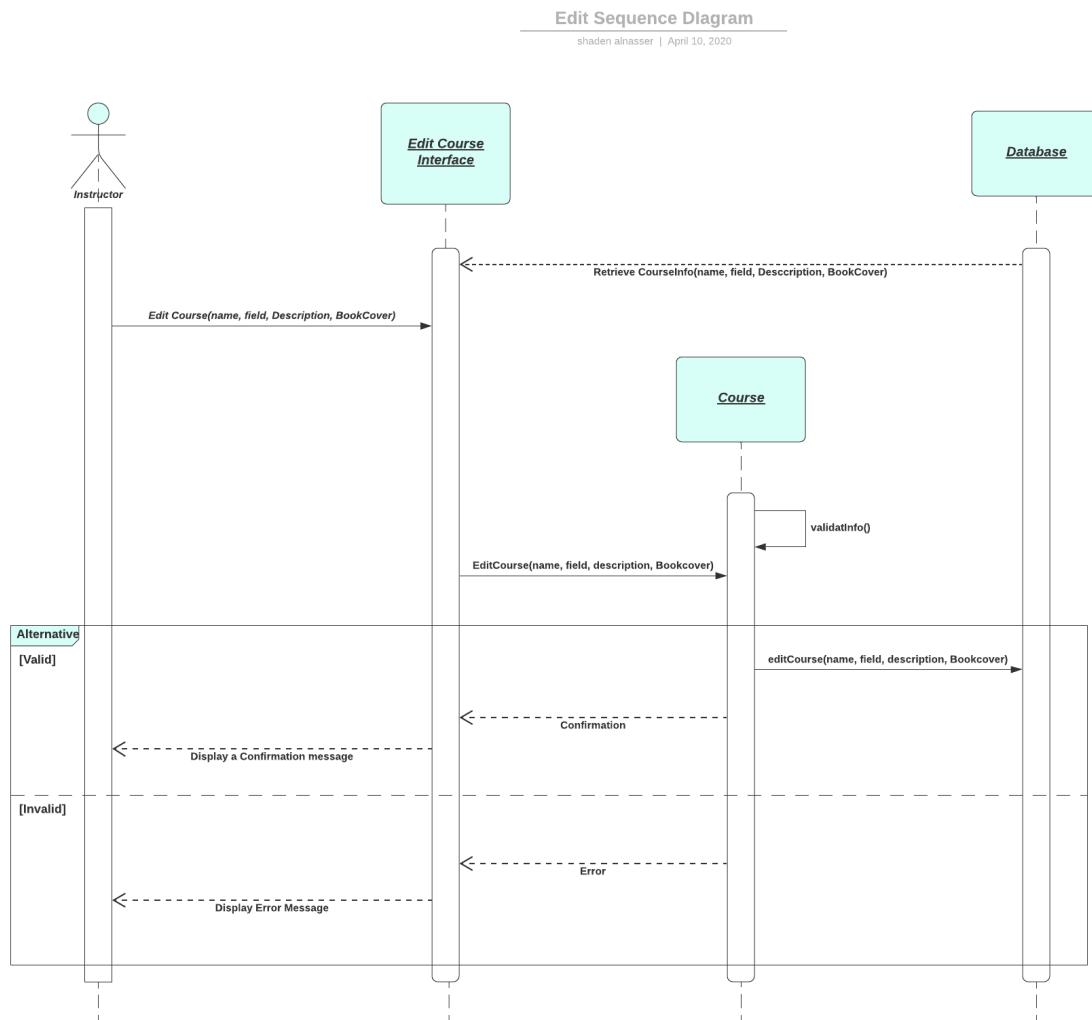
DATA DESIGN

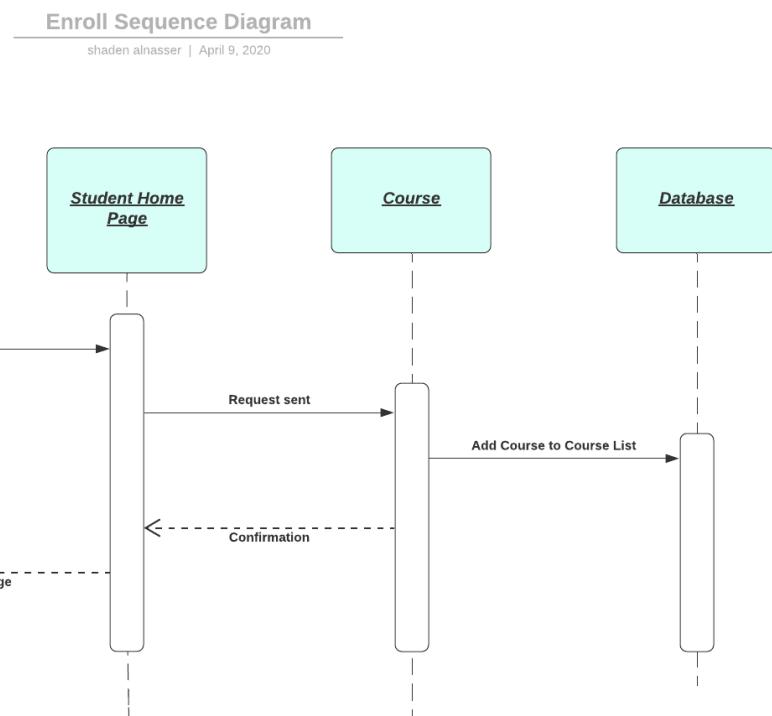
Behavioral Models

Register :

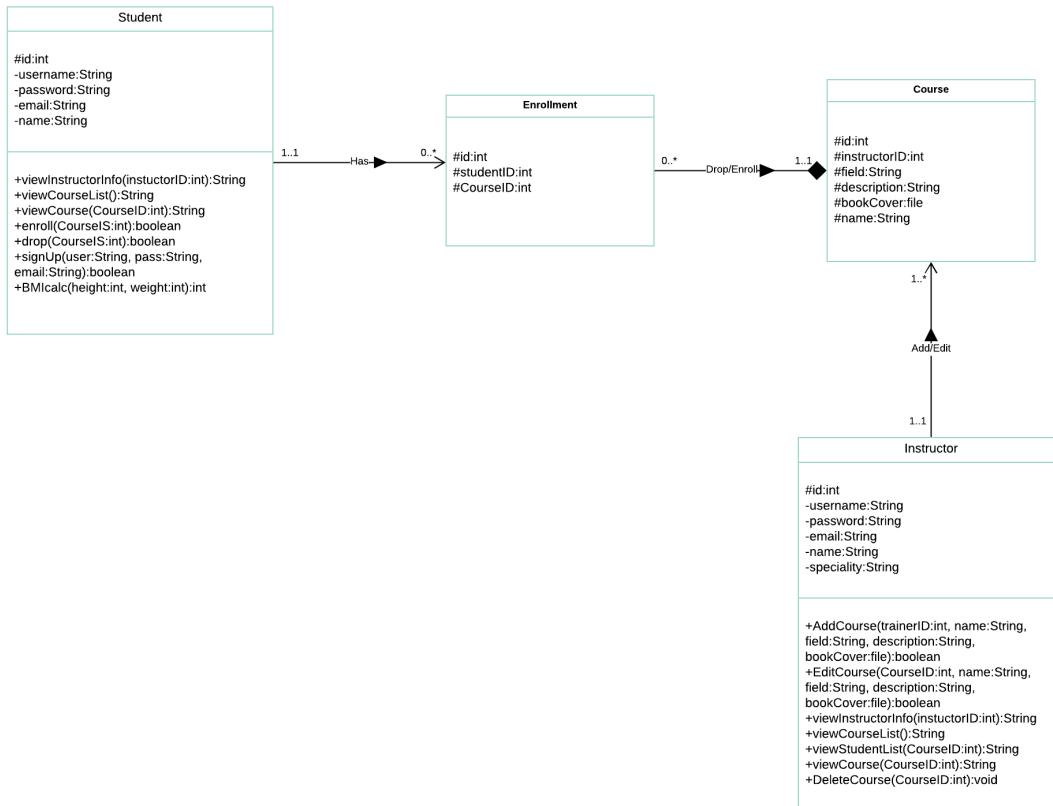


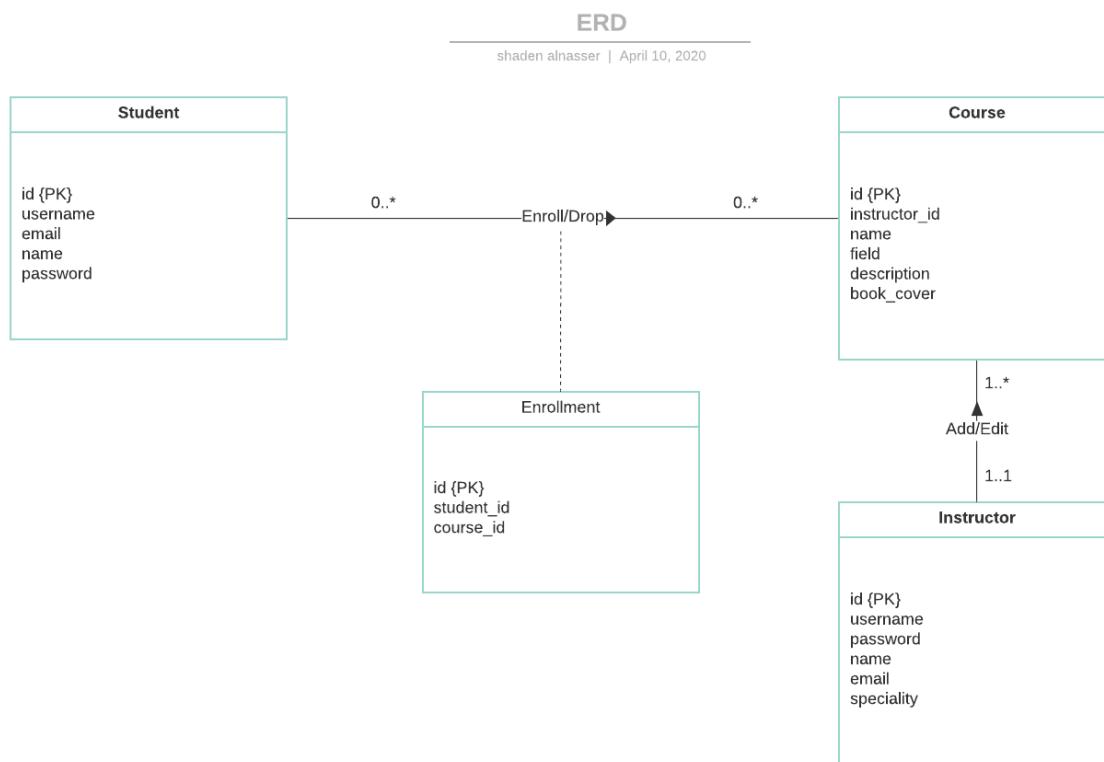
Add course :

Edit course :

Enroll :

Class Models



ER**Schema**

Instructor ([id](#), [username](#), [password](#), [name](#), [email](#), [speciality](#))
Course ([id](#), [instructor_id](#), [name](#), [field](#), [description](#), [book_cover](#))
Student ([id](#), [username](#), [password](#), [name](#), [email](#))
Enrolment ([id](#), [student_id](#), [course_id](#))

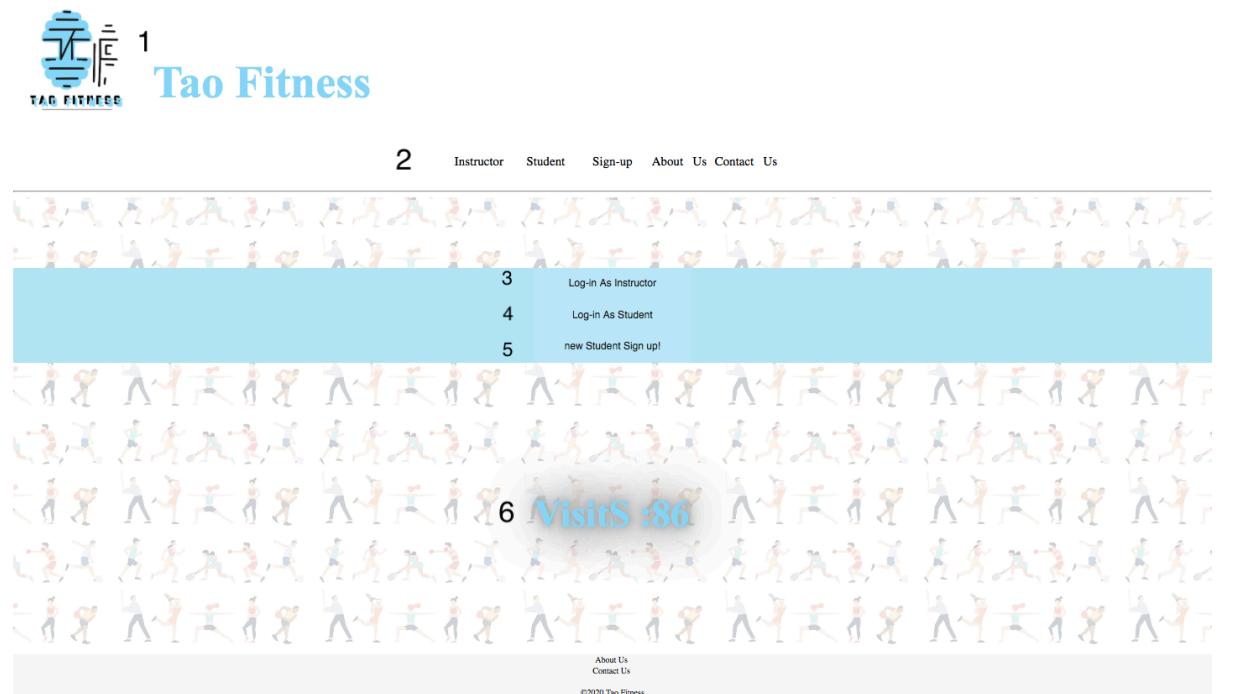
Attribute Dictionary

Entity name	Attribute	Description	Data type	Length	Nulls	Multivalued	Default value	Project Range	PK
Student	id	The student identification number	int	30	No	No	None		PK
	username	The student username	varchar	40	No	No	None		
	email	The student email	varchar	100	No	No	None		
	name	The student name	varchar	40	No	No	None		
	password	The student password	varchar	400	No	No	None		
Instructor	id	The instructor identification number	int	30	No	No	None		PK
	username	The instructor username	varchar	80	No	No	None		
	email	The instructor email	varchar	80	No	No	None		
	name	The instructor name	varchar	40	No	No	None		
	password	The instructor password	varchar	1000	No	No	None		
	speciality	The instructor specialty	varchar	40	No	No	None		
Course	id	The courses identification number	int	30	No	No	None		PK
	instructor_id	The instructor identification number	int	30	No	No	None		
	name	The course name	varchar	80	No	No	None		
	field	The course field	varchar	120	No	No	None		

	description	A paragraph or a sentence that describes the course	varchar	500	No	No	None		
	book_cover	A display picture for the course	blob	-	Yes	No	Null		
Enrolment	id	The Enrolment id	int	30	No	No	None		PK
	student_id	The student identification number	int	30	No	No	None		
	course_id	The course identification number	int	30	No	No	None		

USER FUNCTION INTERFACE

HomePage



The screenshot shows the Tao Fitness homepage. At the top left is the logo 'Tao Fitness' with a stylized blue and white icon. To its right is the number '1'. Below the logo is the text 'Tao Fitness' in a large, light blue font. A navigation bar follows, containing links: 'Instructor', 'Student', 'Sign-up', 'About Us', 'Contact Us', and a small separator. A large grid of small, colorful icons representing various exercises covers the main area. Overlaid on this grid are several interactive elements: a light blue rectangular box at the top center containing three buttons labeled '3 Log-in As Instructor', '4 Log-in As Student', and '5 new Student Sign up!'; a large blue button in the center labeled '6 VisitS :86'; and a small grey footer bar at the bottom with links 'About Us' and 'Contact Us', and the copyright notice '©2020 Tao Fitness'.

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This is a button that logs the instructor in
4	This is a button that logs the student in
5	This is a button that signs up a new student
6	This EXTRA Function shows how many users have visited the website

Figure1.1
Home Page
Print
Screen

Figure1.2 Home Page Table

Instructor Log-In page

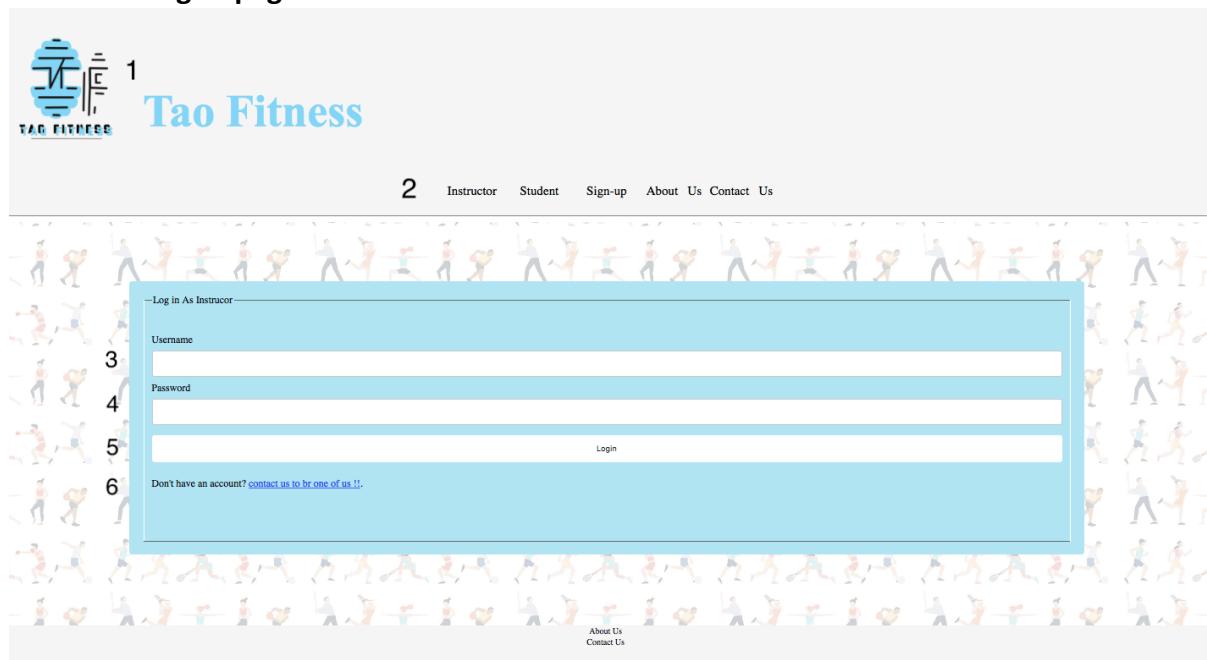


Figure2.1 Instructor Log-In Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	The Instructor should put his/her username
4	The Instructor should put his/her password
5	This button redirects the instructor to the instructor home page opening his/her account, and closes the instructors log in page
6	This link redirects the new instructor who wants to sign up to the Contact Us page in

Figure2.2 Instructor Log-In Page Table

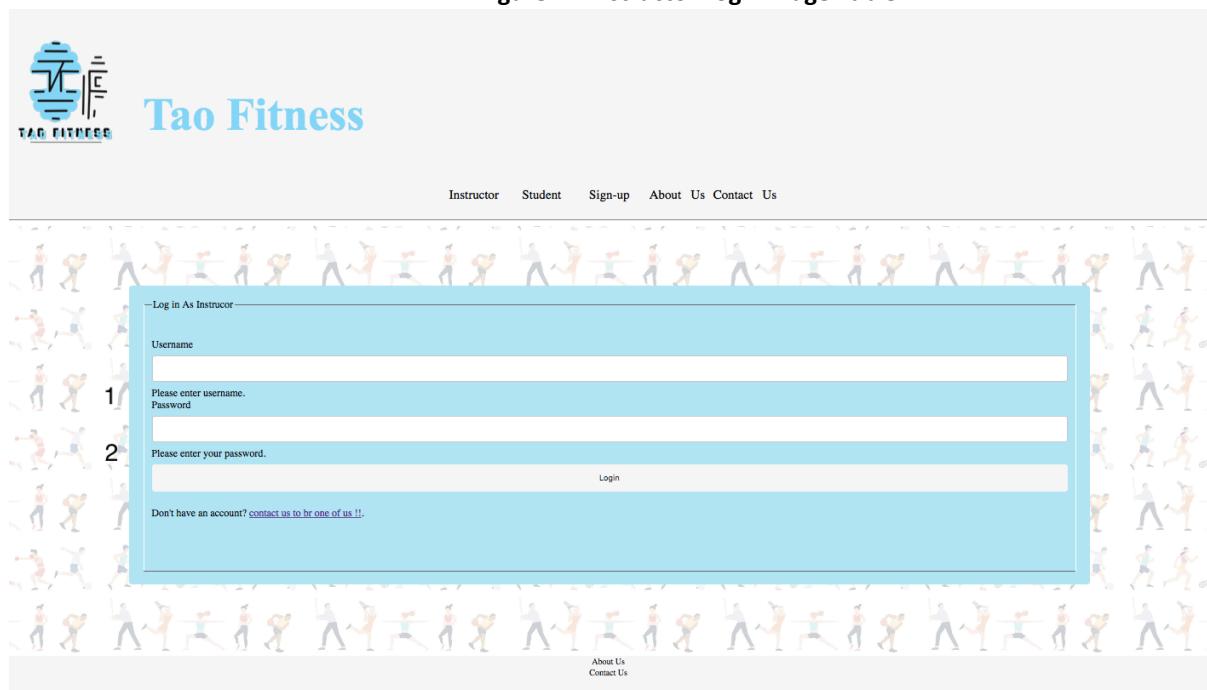


Figure2.3 Instructor Log-In Page with Error Message(1) Print Screen

#	Description
1	This error message appears if the Login button was pressed with empty Username field
2	This error message appears if the Login button was pressed with empty password field

Figure2.4 Instructor Log-In Page with Error Message(1) Table

The screenshot shows the Tao Fitness website's log-in page for instructors. The header features the "Tao Fitness" logo and navigation links for Instructor, Student, Sign-up, About Us, Contact Us, and a search bar. Below the header is a decorative banner with silhouettes of people performing various exercises. The main form area has a light blue background. It contains fields for "Username" (with the value "sara") and "Password" (empty). A red error message box labeled "1" contains the text "Please enter your password." To the right of the password field is a "Login" button. At the bottom of the form is a link: "Don't have an account? [contact us to be one of us !!.](#)" The footer includes links for About Us, Contact Us, and the copyright notice "©2020 Tao Fitness".

Figure2.5 Instructor Log-In Page with Error Message(2) Print Screen

#	Description
1	This error message appears if the Login button was pressed with empty Password field

Figure2.6 Instructor Log-In Page with Error Message(2) Table

The screenshot shows the Tao Fitness website's log-in page for instructors. The layout is identical to Figure 2.5, with the "Tao Fitness" logo, navigation links, and exercise banner. The main form area shows a "Username" field that is empty. A red error message box labeled "1" contains the text "Please enter username.". The "Password" field contains the placeholder ".....". To the right of the password field is a "Login" button. The footer links and copyright notice are present.

Figure2.7 Instructor Log-In Page with Error Message(3) Print screen

#	Description
1	This error message appears if the Login button was pressed with empty Username field

Figure2.8 Instructor Log-In Page with Error Message(3) Table

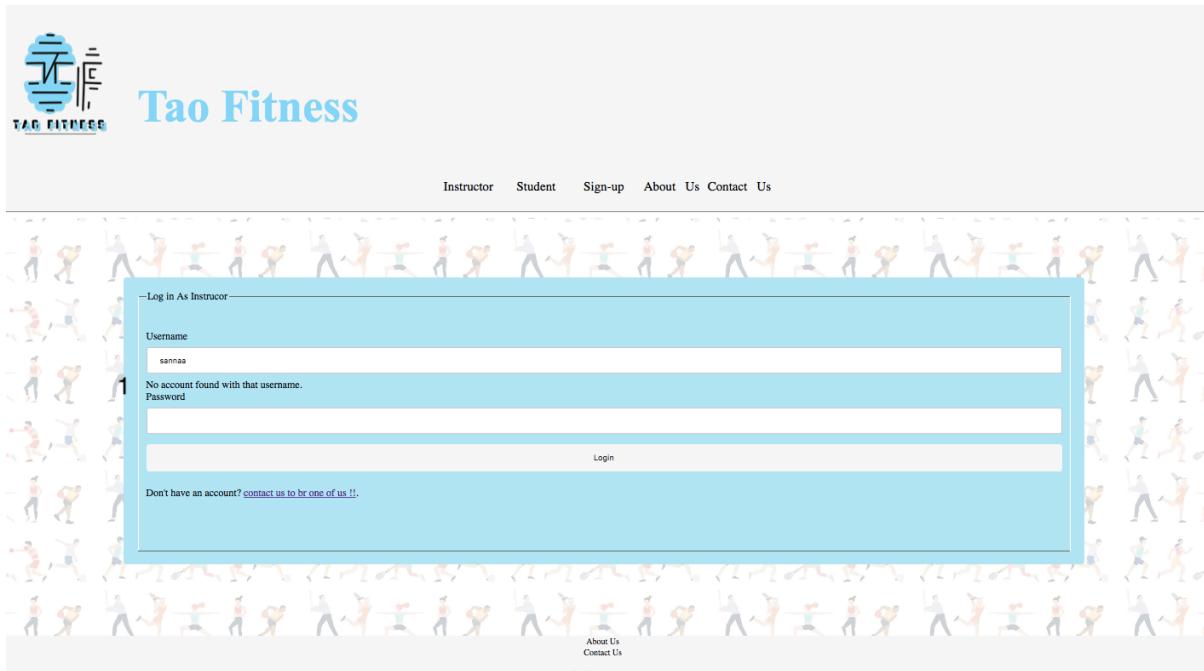


Figure2.9 Instructor Log-In Page with Error Message(4) Print screen

#	Description
1	This error message appears if the Login button was pressed with invalid input

Figure2.10 Instructor Log-In Page with Error Message(4) Table

Student Log-In page HomePage

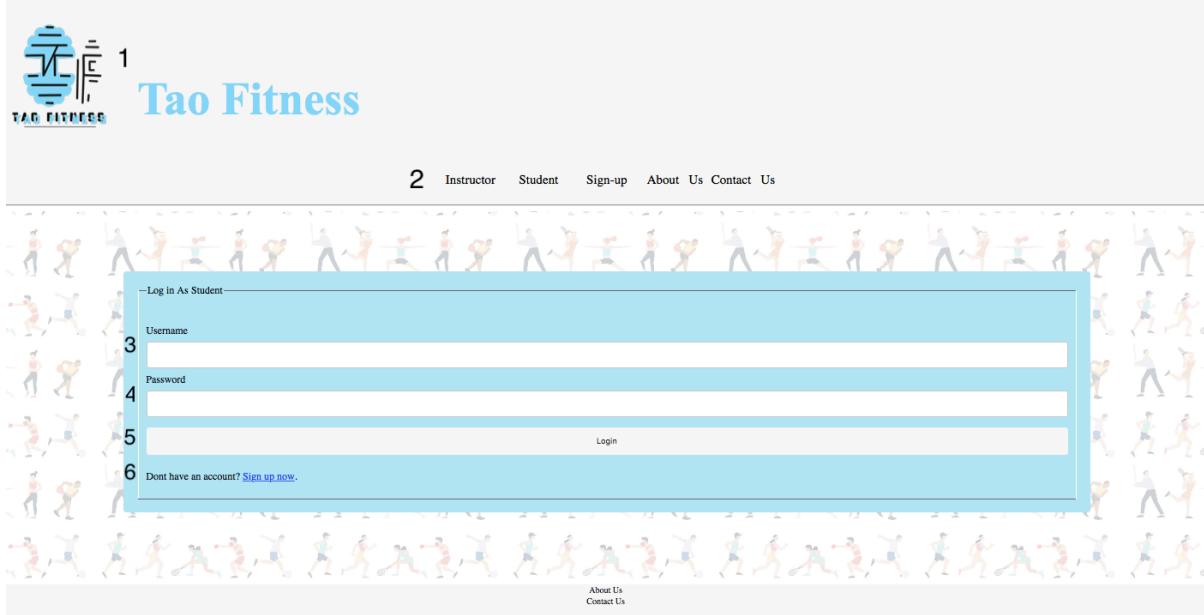


Figure3.1 Student Log-In Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	The Student should put his/her username
4	The Student should put his/her password
5	This button redirects the Student to the Student home page opening his/her account, and closes the Student log in page

6	This link redirects the new Student who wants to sign up to the Sign up page
---	--

Figure3.2 Student Log-In Page Table

The screenshot shows the Tao Fitness website's student log-in page. At the top, there is a navigation bar with links for Instructor, Student, Sign-up, About Us, Contact Us, and a search bar. Below the navigation is a decorative banner featuring various fitness icons. The main content area has a light blue background and contains a form titled "Log in As Student". It includes fields for "Username" (containing "1") and "Password" (containing "2"). Below these fields, two error messages are displayed: "1 Please enter username." and "2 Please enter your password.". A "Login" button is located to the right of the password field. At the bottom of the form, there is a link "Dont have an account? [Sign up now.](#)". The footer of the page includes links for About Us, Contact Us, and a copyright notice: "©2020 Tao Fitness".

Figure3.3 Student Log-In Page with Error Message(1) Print Screen

#	Description
1	This error message appears if the Login button was pressed with empty Username field
2	This error message appears if the Login button was pressed with empty password field

Figure3.4 Student Log-In Page with Error Message(1) Table

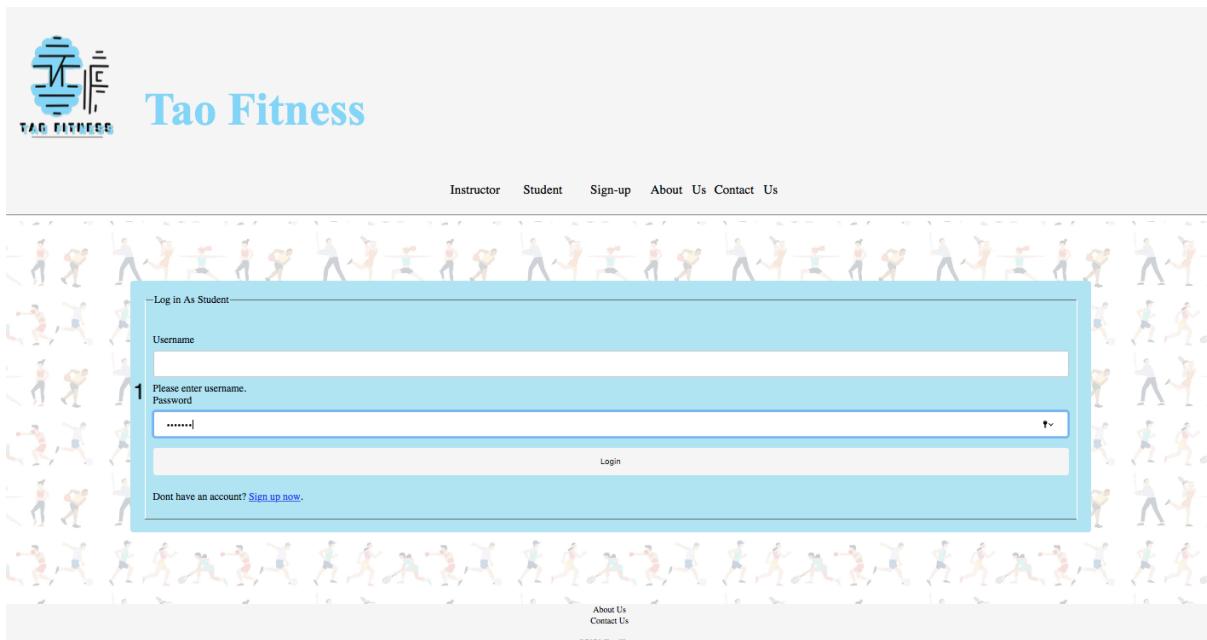
The screenshot shows the Tao Fitness website's student log-in page. The layout is identical to Figure 3.3, with a navigation bar, a decorative banner, and a "Log in As Student" form. In this version, the "Username" field contains the value "dana" and the "Password" field is empty. The same error message "1 Please enter your password." is displayed below the password field. The "Login" button is visible to the right. The footer links and copyright notice are also present.

Figure3.5

Student Log-In Page with Error Message(2) Print Screen

#	Description
1	This error message appears if the Login button was pressed with empty Password field

Figure3.6 Student Log-In Page with Error Message(2) Table

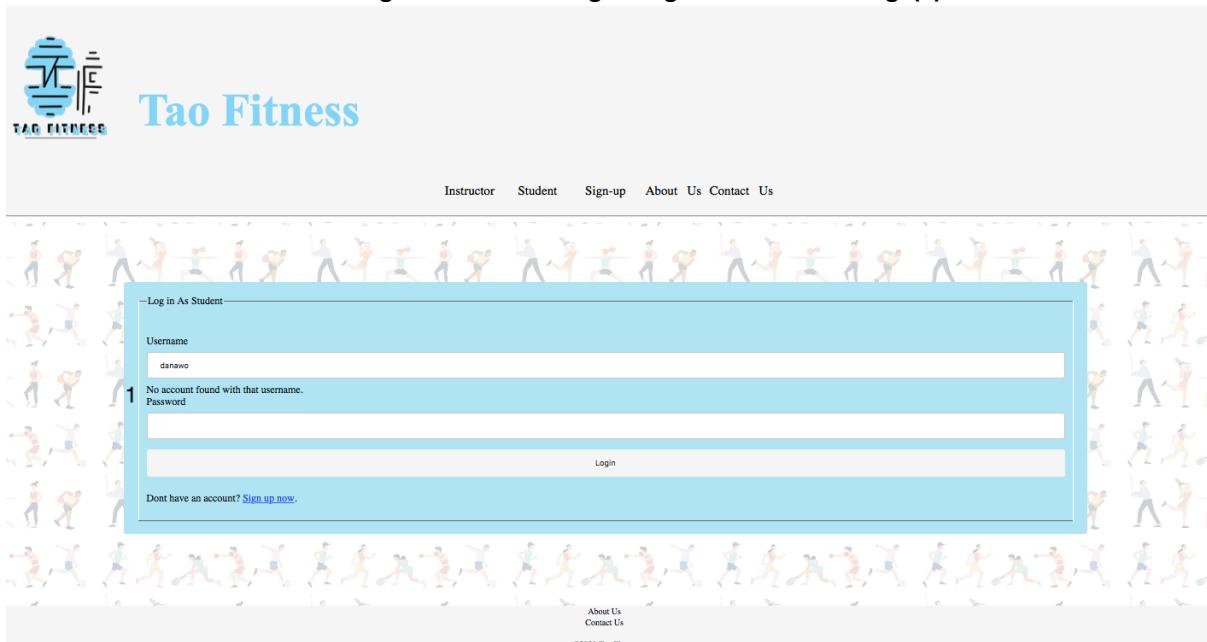


The screenshot shows the Tao Fitness website's student log-in page. The header features the Tao Fitness logo and the text "Tao Fitness". Below the header is a navigation bar with links: Instructor, Student, Sign-up, About Us, Contact Us. The main content area has a light blue background with a decorative border of small human figures. It contains a form titled "Log in As Student". The "Username" field is empty, and the "Password" field contains ".....". A red error message "1 Please enter username." is displayed above the fields. At the bottom of the form is a link "Dont have an account? [Sign up now.](#)". The footer includes links for "About Us", "Contact Us", and the copyright notice "©2020 Tao Fitness".

Figure3.7 Student Log-In Page with Error Message(3) Print screen

#	Description
1	This error message appears if the Login button was pressed with empty Username field

Figure3.8 Student Log-In Page with Error Message(3) Table



The screenshot shows the Tao Fitness website's student log-in page. The header features the Tao Fitness logo and the text "Tao Fitness". Below the header is a navigation bar with links: Instructor, Student, Sign-up, About Us, Contact Us. The main content area has a light blue background with a decorative border of small human figures. It contains a form titled "Log in As Student". The "Username" field contains "danavvo", and the "Password" field is empty. A red error message "1 No account found with that username." is displayed above the fields. At the bottom of the form is a link "Dont have an account? [Sign up now.](#)". The footer includes links for "About Us", "Contact Us", and the copyright notice "©2020 Tao Fitness".

Figure3.9 Student Log-In Page with Error Message(4) Print screen

#	Description
1	This error message appears if the Login button was pressed with invalid input

Figure3.10 Student Log-In Page with Error Message(4) Table

Sign Up page

Figure4.1 Sign Up Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	The Student should enter his/her Username
4	The Student should enter his/her E-mail
5	The Student should enter his/her Full name
6	The Student should enter his/her Password
7	The Student should confirm his/her Password
8	This button clears the fields and set it back to its default from
9	This button creates an account for the newly signed student, then redirects the him/her to the Student home page

Figure4.2 Sign Up Page Table

Figure4.3 Sign Up Page with Error Message(1) Print Screen

#	Description
1	This error message appears if the Sign Up button was pressed with empty Username field
2	This error message appears if the Sign Up button was pressed with empty E-mail field
3	This error message appears if the Sign Up button was pressed with empty Password field
4	This error message appears if the Sign Up button was pressed with empty Confirm Password field
5	This error message appears if the Sign Up button was pressed with empty Confirm Password field

Figure4.4 Sign Up Page with Error Message(1) Table

The print screen shows the Tao Fitness website with a sign-up form. The form fields are as follows:

- Username: dana123@gmail.com (Error message: This username is already taken.)
- E-mail: dana123@gmail.com
- Full name: dana g
- Password: *****
- Confirm Password: *****

The "Sign Up" button is at the bottom right of the form.

Figure4.5 Sign Up Page with Error Message(2) Print Screen

#	Description
1	This error message appears if the user entered an existing Username

Figure4.6 Sign Up Page with Error Message(2) Table

The print screen shows the Tao Fitness website with a sign-up form. The form fields are as follows:

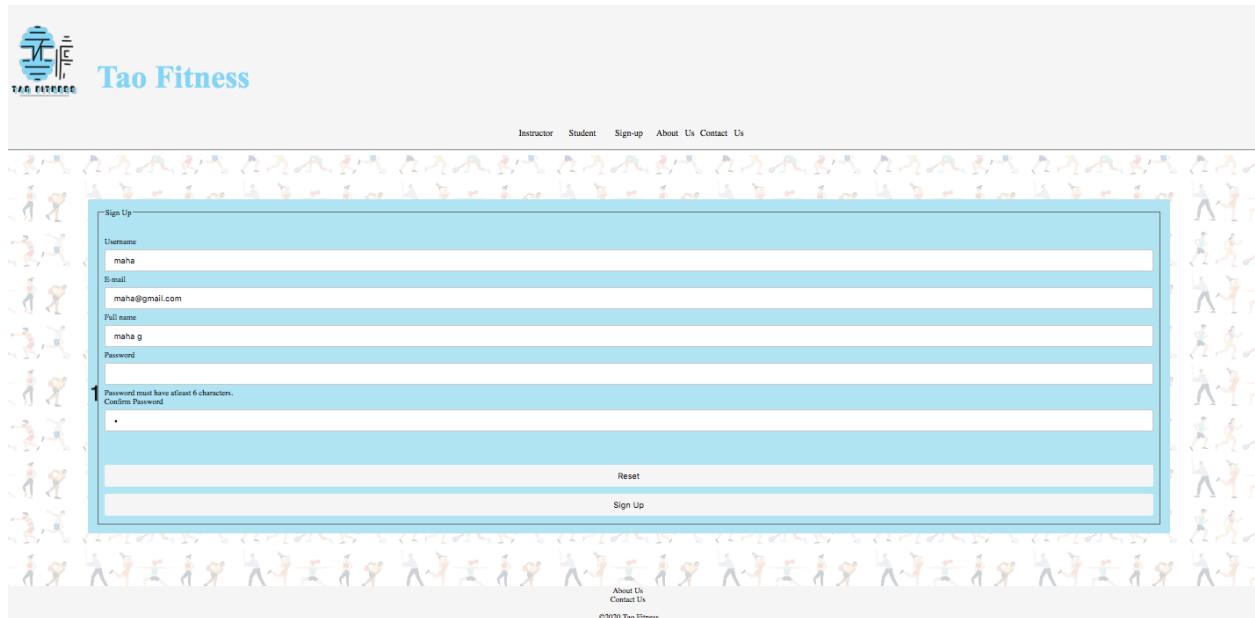
- Username: maha
- E-mail: maha (Error message: Enter an email address.)
- Full name: maha g
- Password: *****
- Confirm Password: *****

The "Sign Up" button is at the bottom right of the form.

Figure4.7 Sign Up Page with Error Message(3) Print Screen

#	Description
1	This error message appears if the user entered an incorrect email format

Figure4.8 Sign Up Page with Error Message(3) Table



The screenshot shows the Tao Fitness sign-up page. At the top, there is a logo and the text "Tao Fitness". Below the logo, there is a navigation bar with links: Instructor, Student, Sign up, About Us, Contact Us. The main area is titled "Sign Up". It contains fields for Username (maha), E-mail (maha@gmail.com), Full name (maha g), and Password. A message at the bottom of the password field says "Password must have atleast 6 characters." There is also a "Confirm Password" field which is currently empty. At the bottom of the form are "Reset" and "Sign Up" buttons.

Figure4.9 Sign Up Page with Error Message(4) Print Screen

#	Description
1	This error message appears if the user entered a very short Password

Figure4.10 Sign Up Page with Error Message(4) Table



The screenshot shows the Tao Fitness sign-up page. At the top, there is a logo and the text "Tao Fitness". Below the logo, there is a navigation bar with links: Instructor, Student, Sign up, About Us, Contact Us. The main area is titled "Sign Up". It contains fields for Username (naajlas), E-mail (naajla@outlook.com), and Full name (najla alashaikh). A message at the bottom of the E-mail field says "This email is already taken.". There are also fields for Password and Confirm Password, both containing several dots. At the bottom of the form are "Reset" and "Sign Up" buttons.

Figure4.11 Sign Up Page with Error Message(5) Print Screen

#	Description
1	This error message appears if the user entered an existing E-mail

Figure4.12 Sign Up Page with Error Message(5) Table

Instructor Home Page

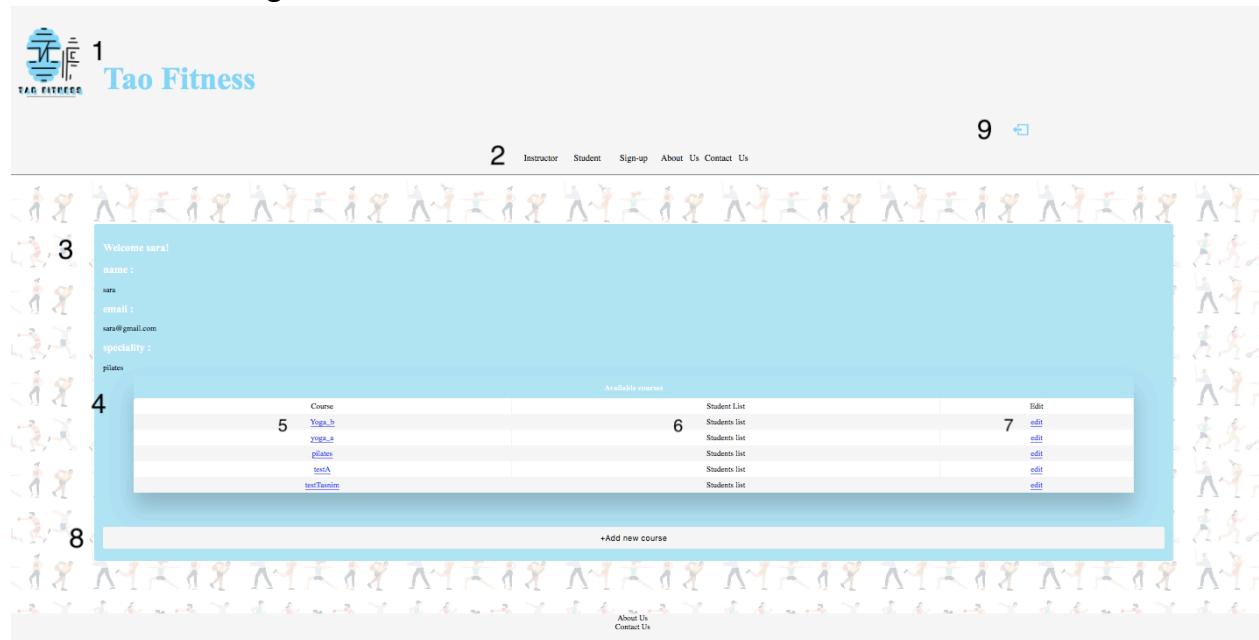


Figure5.1 Instructor Home Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This is the displayed instructor information (Name, E-mail, Specialty)
4	This is the Available courses table it displays information about the current courses (Course, Student List, Edit)
5	This link displays the course information of the selected course
6	This link displays the students list of the selected course
7	This link enables the instructor to edit the selected course
8	This button enables the instructor to add a new course
9	This is the Sign out button, sign the user out

Figure5.2 Instructor Home Page Table

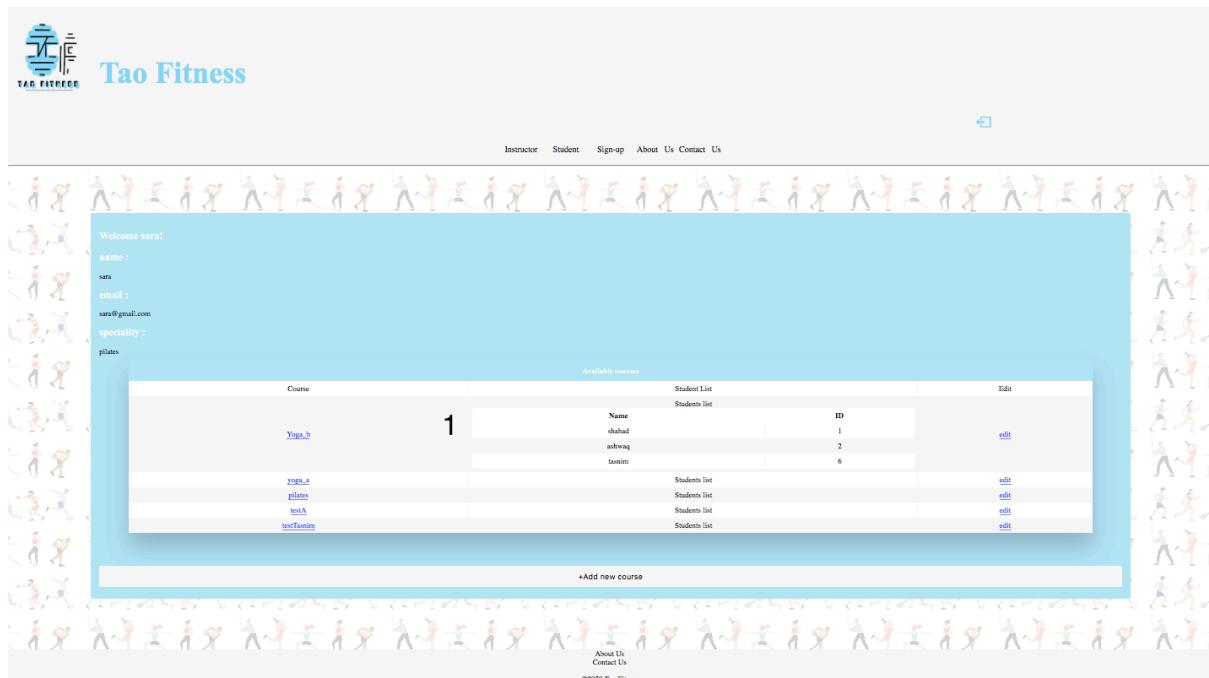


Figure5.3 Instructor Home Page Print Screen

#	Description
1	A display of the student list

Figure5.4 Instructor Home Page Table

Add Course Page

1 Tao Fitness

2 Instructor Student Sign-up About Us Contact Us

3 Add New Course

Course title:
Enter title

Course field:
Enter field

Course description:
Enter description

Course image file:
Choose file no file selected

Submit

Figure6.1 Add Course Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	The instructor should enter the Course title
4	The instructor should enter the Course field
5	The instructor should enter the Course description
6	The instructor should insert the Course display picture
7	This button adds the course to the course list, and redirects the instructor to Course information page

Figure6.2 Add Course Page Table

1 Please enter character only.

2 Instructor Student Sign-up About Us Contact Us

3 Add New Course

Course title:
Enter title

Course field:
Enter field

Course description:
Enter description

Course image file:
Choose file no file selected

Submit

Figure6.3 Add Course Page with Error Message(1) Print Screen

#	Description
1	This error message appears if the user pressed submit button with empty fields

Figure6.4 Add Course Page with Error Message(1) Table

Course Information Page

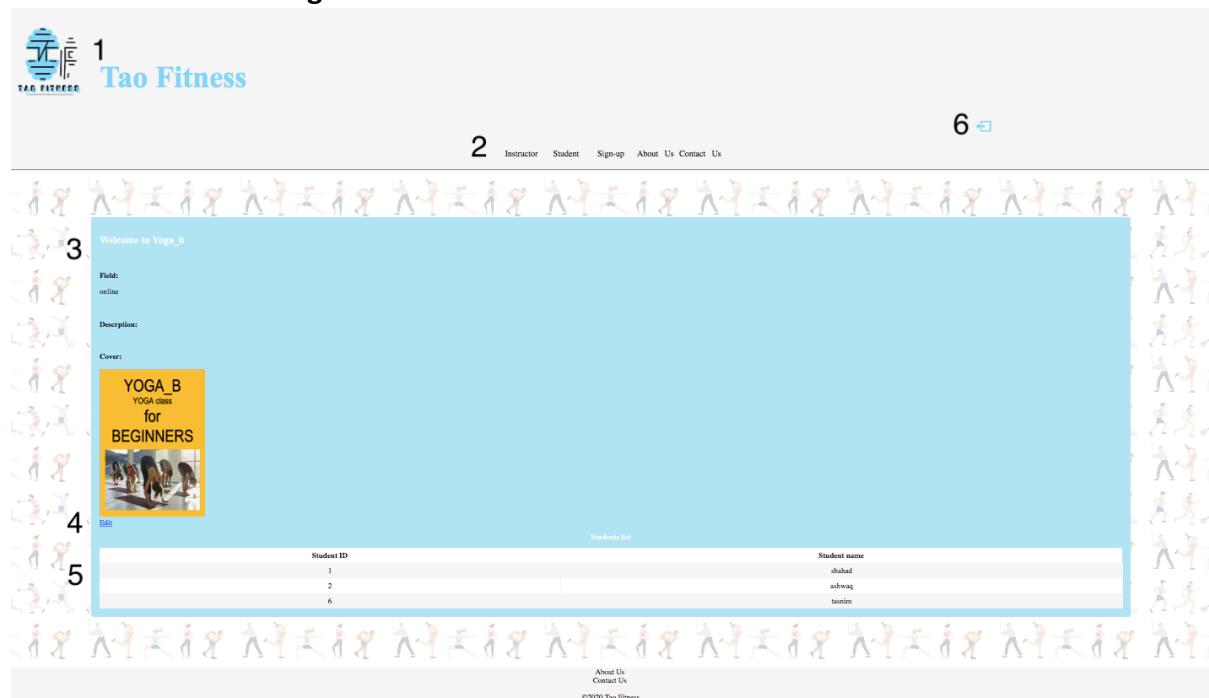


Figure7.1 Course Information Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This the Course information
4	This is the edit button, enables the instructor to modify the course information
5	This is the enrolled student list
6	This is the Sign out button, it signs the user out

Figure7.2 Course Information Page Table

Edit page

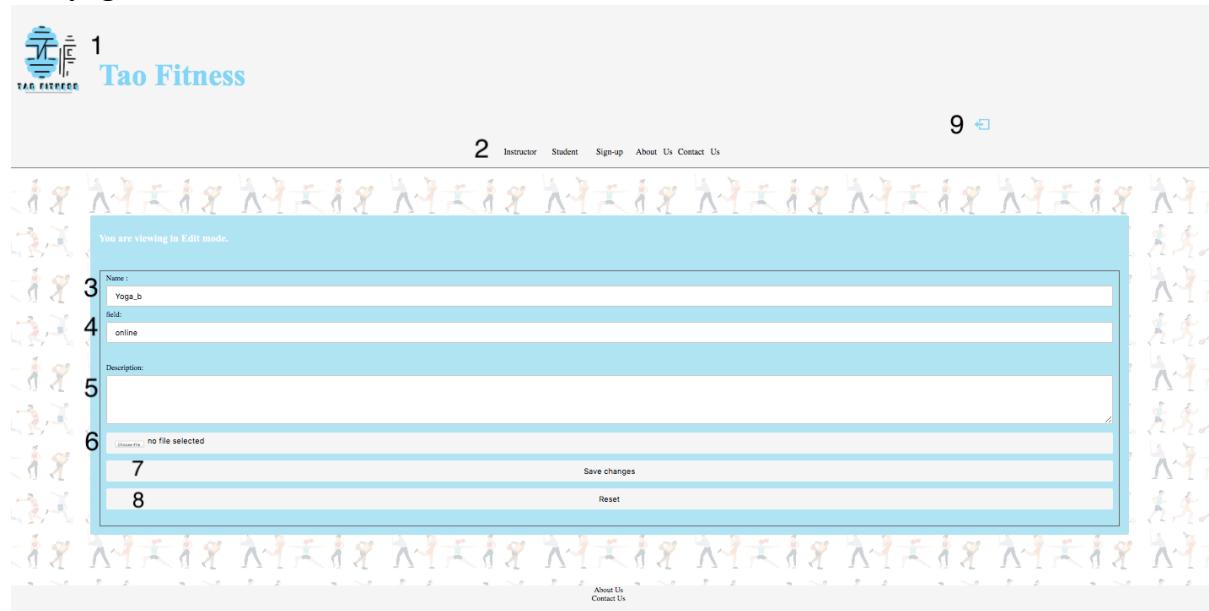


Figure8.1 Edit Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	The instructor is able to modify the course name
4	The instructor is able to modify the course field
5	The instructor is able to modify the course description
6	The instructor is able to modify the course display picture
7	This button save the changes made by the instructor
8	This button resets the fields to its default form
9	This is the Sign out button, sign the user out

Figure8.2 Edit Page Table

You are viewing in Edit mode.
Please fill the fields you want to edit.

Name :

field:

Description:

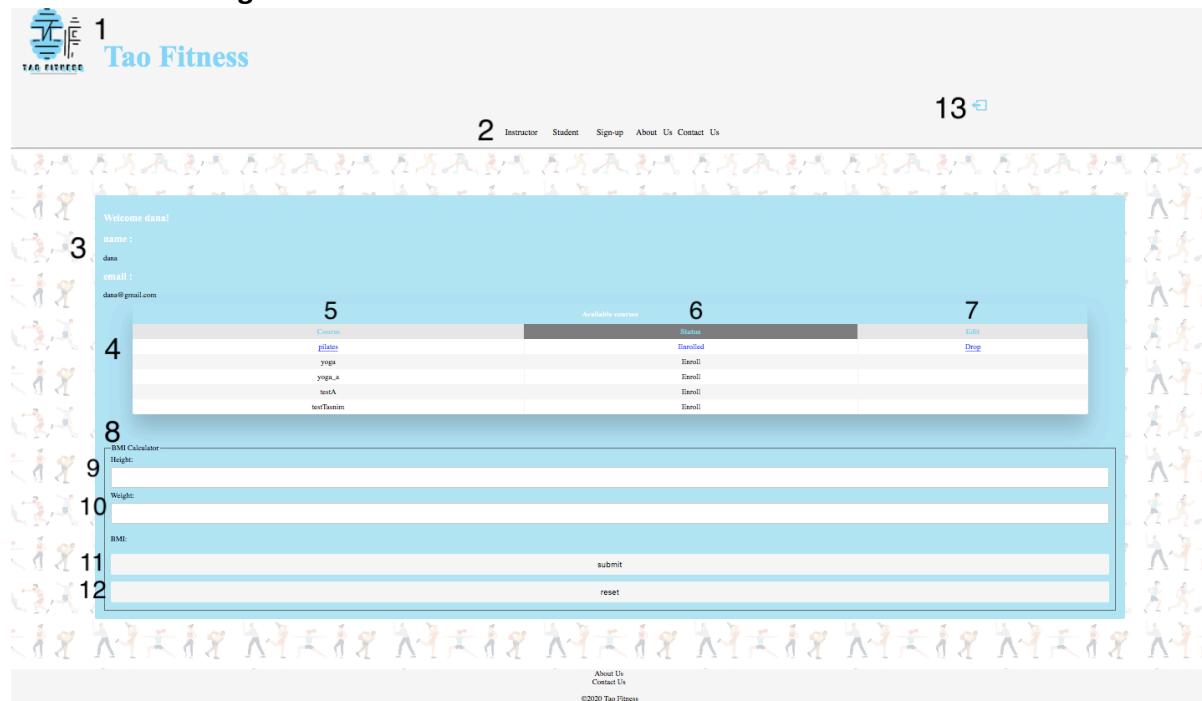
Choose File No file chosen

Save changes

Figure.8.3 Edit Course Page with Error Message(1) Print Screen

#	Description
1	This error message appears if the user pressed submit button with empty fields

Figure.8.4 Edit Course Page with Error Message(1)

Student Home Page**Figure9.1 Student Home Page Print Screen**

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This the Student information (Name, E-mail)
4	This is the Available Courses table, it displays information about the courses(Course, Status [enrolled or enroll], Edit [drop choice if enrolled])
5	This displays the courses if enrolled it will create a clickable link to the Course Information Page
6	This is the status of the course it will display Enrolled if the student did enroll in the course, and an Enroll button if the student wasn't enrolled
7	This is the Edit where it gives the student an option to drop the course if enrolled
8	This EXTRA Function is the BMI Calculator, it calculates the Body Mass of the student
9	The Student should enter his/her height
10	The Student should enter his/her weight
11	This button if clicked it calculates the BMI of the student
12	This button clears the field and set it to its default form
13	This is the Sign out button, sign the user out

Figure9.2 Student Home Page Table

About Us Page

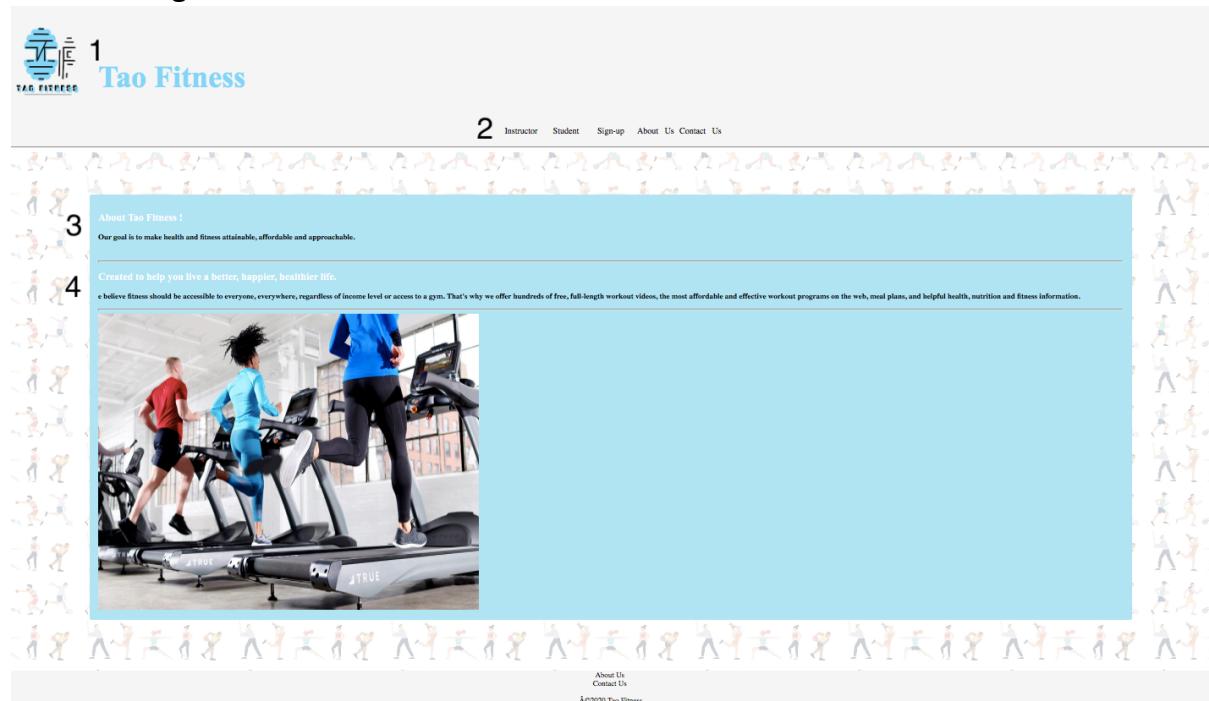


Figure10.1 About Us Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This displays a brief information about this fitness platform
4	This displays the goal of this fitness platform

Figure10.2 About Us Page Table

Contact Us Page

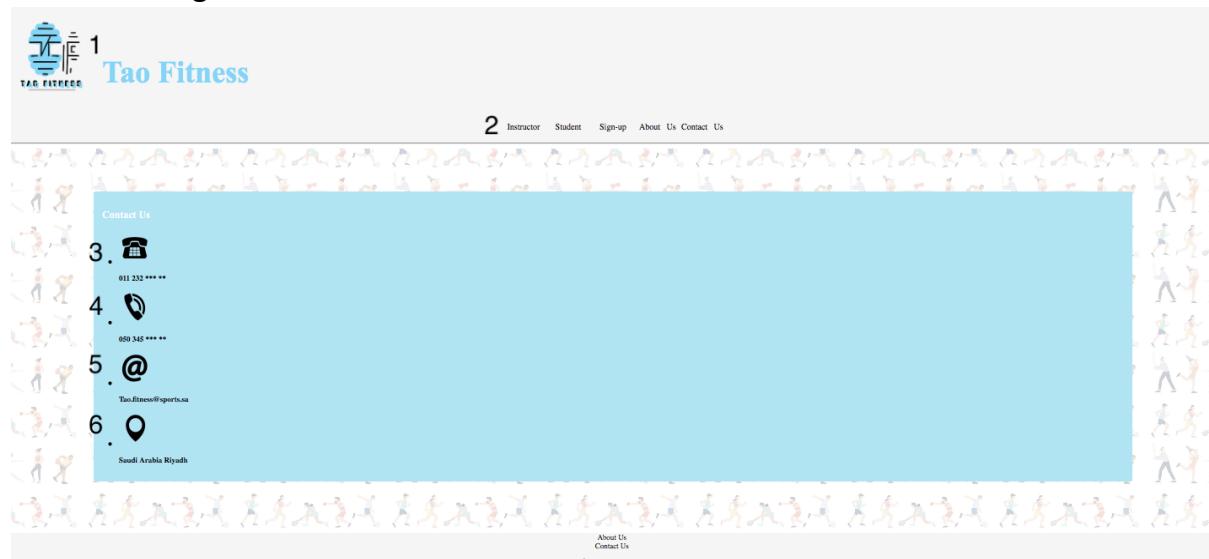


Figure11.1 Contact Us Page Print Screen

#	Description
1	This is the websites logo
2	This is the navigation bar that takes to the main pages
3	This is the Customer service number
4	This is the Gyms number
5	This is the Gyms customer service email
6	This is the head quarter of gym

Figure11.2 Contact Us Page Table

TESTING INTRODUCTION

We are working on testing the software to ensure its efficiency and performance before it gets to the users hand. Another purpose is to avoid any major built up complications that might occur with any lack of supervision.

This document will be used by developers, testers, and project managers. It might also be used by stakeholders in other department including leadership teams.

When the testing team discover and error, they will gather and brainstorm to help find the lowest cost and highest quality solution.

The rest of this document will contain the following sections:

Testing items for Register, add, and edit course alongside its pseudocode for each function Unit testing which includes:

Partition Testing: which is done for the three functions register, add, and edit course. Where we divided the data input into partitions of equal data from which test cases can be obtained.

Path Testing: which is done for the three functions register, add, and edit course. Where we used the source code of the program in order to find each possible executable path. This method helped us achieve the reduction of tests redundancy's and obtain maximum test coverage.

These sections will be organized as they mentioned above.

Restrictions, limitations or constraints that impact our testing: Test Items.

TEST ITEMS

REGISTER

Responsibilities' Reference: 1

TESTING ITEMS

T1.1: trying to Register with an already registered information.

T1.2: trying to register with valid information

T1.3: click on the Sign Up button with empty Username.

T1.4: click on the Sign Up button with empty E-mail.

- T1.5:** click on the Sign Up button with empty Full name.
- T1.6:** click on the Sign Up button with empty Password.
- T1.7:** click on the Sign Up button with empty Confirm Password.
- T1.8:** click on the Sign Up button with wrong E-mail format.
- T1.9:** click on the Sign Up button with wrong password confirmation.
- T1.10:** click on the Sign Up button with wrong password format.
- T1.11:** click on the Reset button.
- T1.12:** click on the Back button.

PSEUDOCODE

Enter information, when the user clicks the Register button

IF the username or Email exists **THEN**,

Notify the user that it already exists.

Enable the user to enter the information again.

ELSE IF any of the textboxes are empty **THEN**

Notify the user

ELSE IF the password and Confirm password text boxes don't match **THEN**

Notify the user.

ELSE IF the Email or password text boxes are in the wrong format **THEN**

Notify the user.

ELSE IF the user cancels the registration operation **THEN**

Exit the registration page

Else

Create account with the given information on the database, and no enrolled classes.

Proceed to the user's Homepage through the created account.

End if

ADD COURSE

RESPONSIBILITIES' REFERENCE: 2

TESTING ITEMS

T2.1: trying to add course, when all the fields are empty.

T2.2 : trying to add an existing course.

T2.3 : click on the insert button without choosing a image file.

T2.4 : click on the insert button with missing title field .

T2.5 : click on the insert button with missing field field.

T2.6 : click on the insert button with missing description field .

T2.7 : trying to write a special characters in any field.

T2.8 : click on the Back button.

T2.9 : click on the Log-out button.

T2.10 : enter all fields with correct data.

PSEUDOCODE

Enter title, field , description and select an image file, then user clicks the insert button

IF the combination of title, field and description and select an image file exists **THEN**

Notify the user **PRINT** “ the course already exists”.

Enable the user to enter another title, field , description and select an image file.

ELSE IF the textboxes contains special characters **THEN**

Notify the user **PRINT** “except only characters”.

ELSE IF the title or field or file or description boxes or file has no value **THEN**

Notify the user **PRINT** “ fill all the fields”.

ELSE IF (the user click on the Back button) **THEN**

Proceed to the instructor home page

ELSE IF (the user cancelled the insertion operation by log-out) **THEN**

no changes

Proceed to the index page.

ELSE

Create a new course with the given title, field , description and select an image file on the database..

Proceed to the course information page ,where the changes appear.

End if

EDIT COURSE

Responsibilities' Reference: 3

TESTING ITEMS

T 3.1: Click on the Save Changes button with empty fields.

T 3.2: Click on Save Changes button after filling the required information.

T 3.3: Clicks on Save Changes without filling the Name.

T 3.4: Clicks on Save Changes without filling the Field.

T 3.5: Clicks on Save Changes without filling the Description.

T 3.6: Clicks on back button.

PSEUDOCODE

Retrieve the specified course information into the edit form when the user clicks on edit button.

IF the user clicked submit button without filling the form **THEN**

notify the user to fill in the required information.

ELSE IF the user clicked the submit button after modifying the required information **THEN**

It will redirect him to the Course Information page with the updated data

ELSE IF the user missed filling in fields **THEN**

The user will be notified to fill in the uncompleted fields

ELSE IF the user clicked on back button **THEN**

A redirection to the Instructor home page will occur

END IF

UNIT TESTING

PARTITION TESTING

Register

1.1

Existing info	Non existing info
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1.2

No input	Invalid input	Valid input
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2. Add course

2.1

Existing course data	Non existing course data
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2.2

Valid data with Missing title field	Valid data with Missing description field	Valid data with Missing file field
Valid data with Missing file field	No input	Special Characters
Valid course data		

3. Edit course

3.1

Save Changes with empty fields	Save Changes with modification
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TEST CASES**Register**

Test Case	Test Data	Expected Output	Result	Pass/Fail
T1.1	Najla_s Najla abdul na@me.com Na1234 Na1234	Input will be rejected	message is shown stating that a user is registered successfully	Fail
T1.2	Najla_als1 Najla abdul na@me.com Na1234 Na1234	input will be accepted, account created	message is shown stating that a user is registered successfully	Pass
T1.3 Najla abdul na@me.com Na1234 Na1234	An error message stating that the entered data are not completed – missing some field-	An error message stating that the entered data are not completed – missing some field-	Pass
T1.4	Najla_s Najla abdul Na1234 Na1234	An error message stating that the entered data are not completed – missing some field-	An error message stating that the entered data are not completed – missing some field-	Pass
T1.5	Najla_s	An error message stating that the entered data are	An error message stating that the entered data are	Pass

	na@me.com Na1234 Na1234	not completed – missing some field-	not completed – missing some field-	
T1.6	Najla_s Najla abdul na@me.com 1234	An error message stating that the entered data are not completed – missing some field-	An error message stating that the entered data are not completed – missing some field-	Pass
T1.7	Najla_s Najla abdul na@me.com 1234	An error message stating that the entered data are not completed – missing some field-	An error message stating that the entered data are not completed – missing some field-	Pass
T1.8	Najla_s Najla abdul @me.com Na1234 Na1234	An error message stating that the entered data are in the wrong format.	An error message stating that the entered data are in the wrong format.	Pass
T1.9	Najla_s Najla abdul na@me.com Na1234 Na123k	An error message stating that passwords don't match	Error message stating that passwords don't match	Pass
T1.10	Najla_s Najla abdul na@me.com 1234	An error message stating that the entered data are in the wrong format.	Message is shown stating that a user is registered successfully	Fail

	1234			
T1.11	No input	All input fields are emptied.	All input fields are emptied.	Pass
T1.12	No input	Going back to the Home page	Going back to the Home page	Pass

Add course

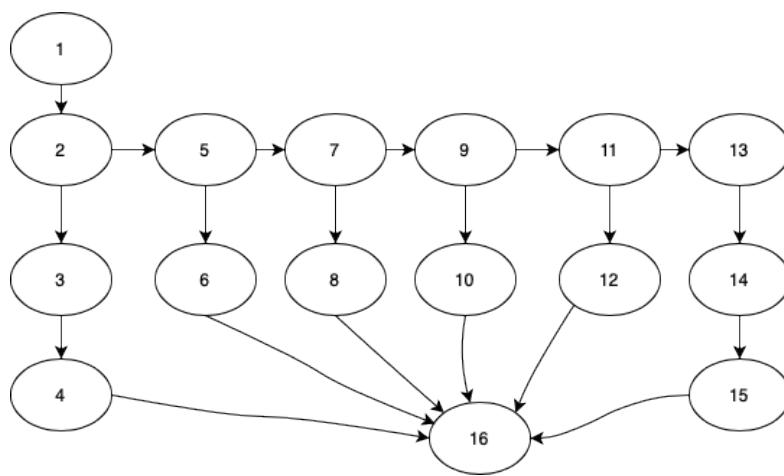
Test Case	Test Data	Expected Output	Result	Pass/Fail
T2.1	Nothing (empty fields)	Error message	fill all the fields	pass
T2.2	Yoga,online,for beginners,yoga.png	Alert already exists	the course already exists	pass
T2.3	Upload nothing	Error message	fill all the fields	pass
T2.4	online,for old ppl,card.png	Error message	fill all the fields	pass
T2.5	Cardio ,for old ppl,card.png	Error message	fill all the fields	pass
T2.6	Cardio,online,card.png	Error message	fill all the fields	pass
T2.7	Cardio?,online,for old ppl,card.png	Error message	except only characters	pass
T2.8	Click back button	Back to the previous page	Directed to the instructor home page	pass
T2.9	click Log-out button	Direct to the index page and end session	Directed to the home page and session ended	pass
T2.10	Cardio,online,for old ppl,card.png	Direct to the course information page with changes	Directed to the course information page and the new course have been added	pass

Edit course

Test Case	Test Data	Expected Output	Result	Pass/Fail
T3.1	No input	A message will appear and notify the user to fill in the required information	A message will appear and notify the user to fill in the required information	Pass
T3.2	Pilates > Aerobics Trainer> Co-Trainer Workout > Cardio	Input will be updated and a redirection to the course information page will occur	Input will be updated and a redirection to the course information page will occur	pass
T3.3	Pilates > Trainer> Co-Trainer Workout > Cardio	user will be notified to fill in the uncompleted field	user will be notified to fill in the uncompleted field	pass
T3.4	Pilates > Aerobics Trainer>.... Workout > Cardio	user will be notified to fill in the uncompleted field	user will be notified to fill in the uncompleted field	pass
T3.5	Pilates > Aerobics Trainer> Co-Trainer Workout >.....	user will be notified to fill in the uncompleted field	user will be notified to fill in the uncompleted field	pass
T3.6	No Input	Redirects the user to instructor home page	Redirects the user to instructor home page	pass

PATH TESTING**REGISTER**

FLOW GRAPH



INDEPENDENT PATHS

P1: 1, 2, 3, 4, 16**P2:** 1, 2, 5, 6, 16**P3:** 1, 2, 5, 7, 8, 16**P4:** 1, 2, 5, 7, 9, 10, 16**P5:** 1, 2, 5, 7, 9, 11, 12, 16**P6:** 1, 2, 5, 7, 9, 11, 13, 14, 15, 16

TEST CASES

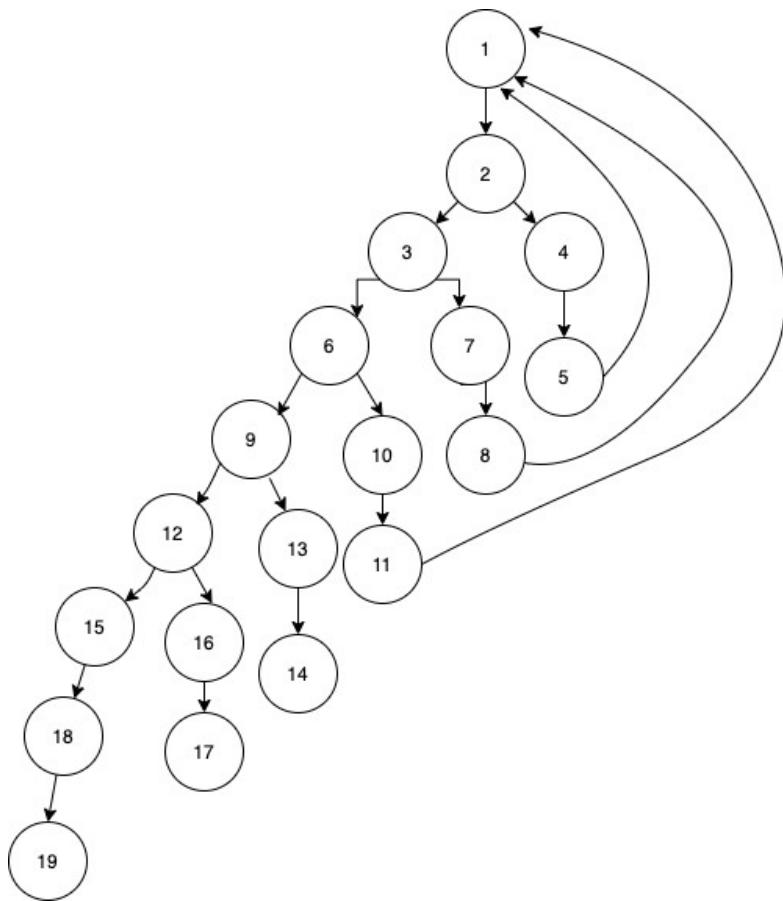
Path	Test Data	Expected Output	Result	Pass/Fail
P1	Najla_s Najla abdul na@me.com	A message will be shown stating that this information already exist	A message will be shown stating that this information already exist	Pass

	Na1234 Na1234			
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P2	Najla_s na@me.com Na1234 Na1234	A message will be shown saying that there is some missing values	A message is shown saying that there is some missing values	Pass
P3	Najla_s Najla abdul na@me.com Na1234 Na123k	An error message stating that passwords don't match	An error message stating that passwords don't match	Pass
P4	Najla_s1 Najla abdul @me.com Na1234 Na1234	An error message stating that the entered data are not correct	An error message stating that the entered data are not correct	Pass
P5	Back button	Going back to the Home page	Going back to the Home page	Pass
P6	Najla_als1 Najla abdul na@me.com Na1234 Na1234	Create an account for the user	Account is created, user transferred to the home page.	Pass

ADD COURSE

FLOW GRAPH



INDEPENDENT PATHS

P1: 1,2,4,5

P2: 1,2,3,7,8

P3: 1,2,3,6,10,11

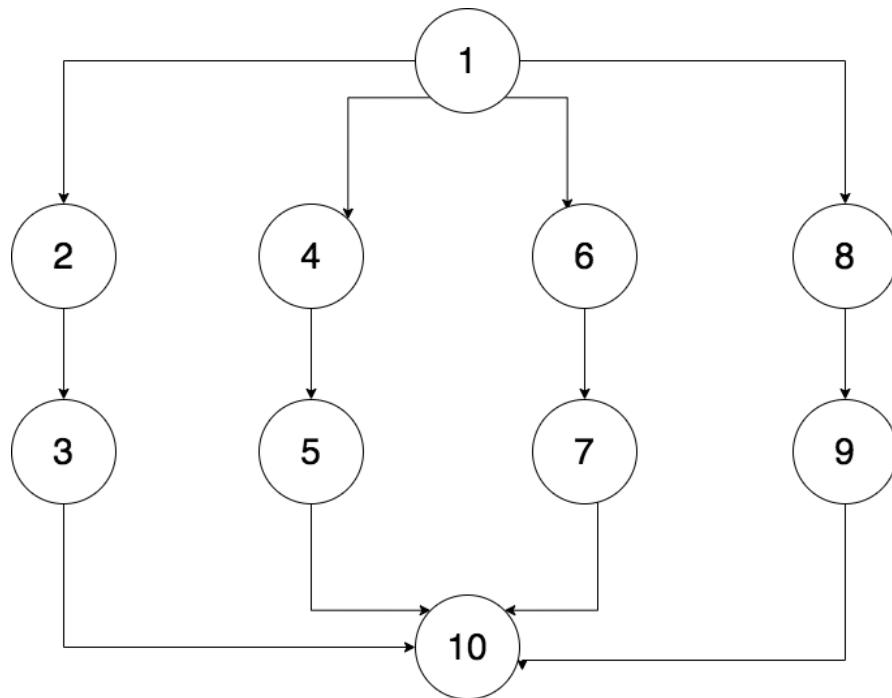
P4: 1,2,3,6,9,13,14

P5: 1,2,3,6,9,12,16,17

P6: 1,2,3,6,9,12,15,18,19

TEST CASES

Path	Test Data	Expected Output	Result	Pass/ Fail
P1	Yoga,online,for beginners,yoga.png	A message will be shown saying "already exist".	a message is shown" already exist".	Pass
P2	Cardio?,online,f or old ppl,card.png	A message will be shown saying that you cant add special char.	A message will be shown saying "except only characters"	Pass
P3	Cardio,online,fo r old ppl or online,for old ppl,card.png or Cardio,for oldppl, card.png or Cardio,online, card.png	A message will be shown saying that you miss field	A message will be shown saying "fill all the fields"	Pass
P4	Back button	Return to the previous page	Return to the previous page	Pass
P5	Log-out button	Disable the user to proceed and open the index page	User is disabled, index page is opened	Pass
P6	Cardio,online,fo r old ppl,card.png	redirect to the course information page and the new course is appear	Directed to the course information page ,and the page is updated with the new course	Pass

EDIT COURSE**FLOW GRAPH****INDEPENDENT PATHS****P1:** 1, 2, 3, 10**P2:** 1, 4, 5, 10**P3:** 1, 6, 7, 10**P4:** 1, 8, 9, 10**TEST CASES**

Path	Test Data	Expected Output	Result	Pass/ Fail
P1	No input	A message will appear and notify the user to fill in the required information	A message will appear and notify the user to fill in the required information	Pass

P2	Pilates > Aerobics Trainer> Co- Trainer Workout > Cardio	Input will be updated and a redirection to the course information page will occur	Input will be updated and a redirection to the course information page will occur	pass
P3	Pilates > Trainer> Co- Trainer Workout > Cardio	user will be notified to fill in the uncompleted field	user will be notified to fill in the uncompleted field	pass
P4	No input	Redirects the user to instructor home page	Redirects the user to instructor home page	pass
P5	No input	A message will appear and notify the user to fill in the required information	A message will appear and notify the user to fill in the required information	Pass
P6	Pilates > Aerobics Trainer> Co- Trainer Workout > Cardio	Input will be updated and a redirection to the course information page will occur	Input will be updated and a redirection to the course information page will occur	pass