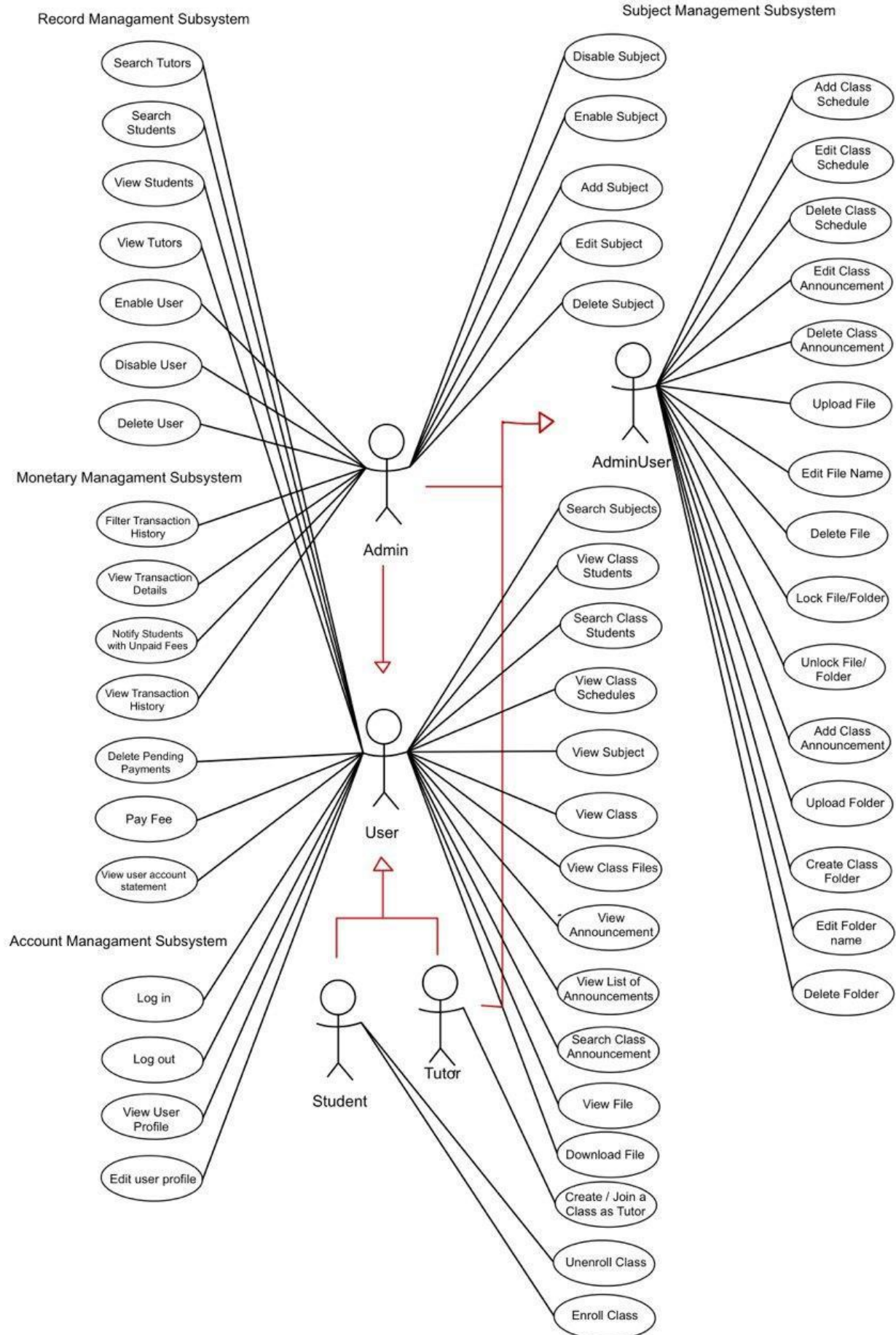


EASYTUTOR

Tuition Center

1. Use Case Diagram



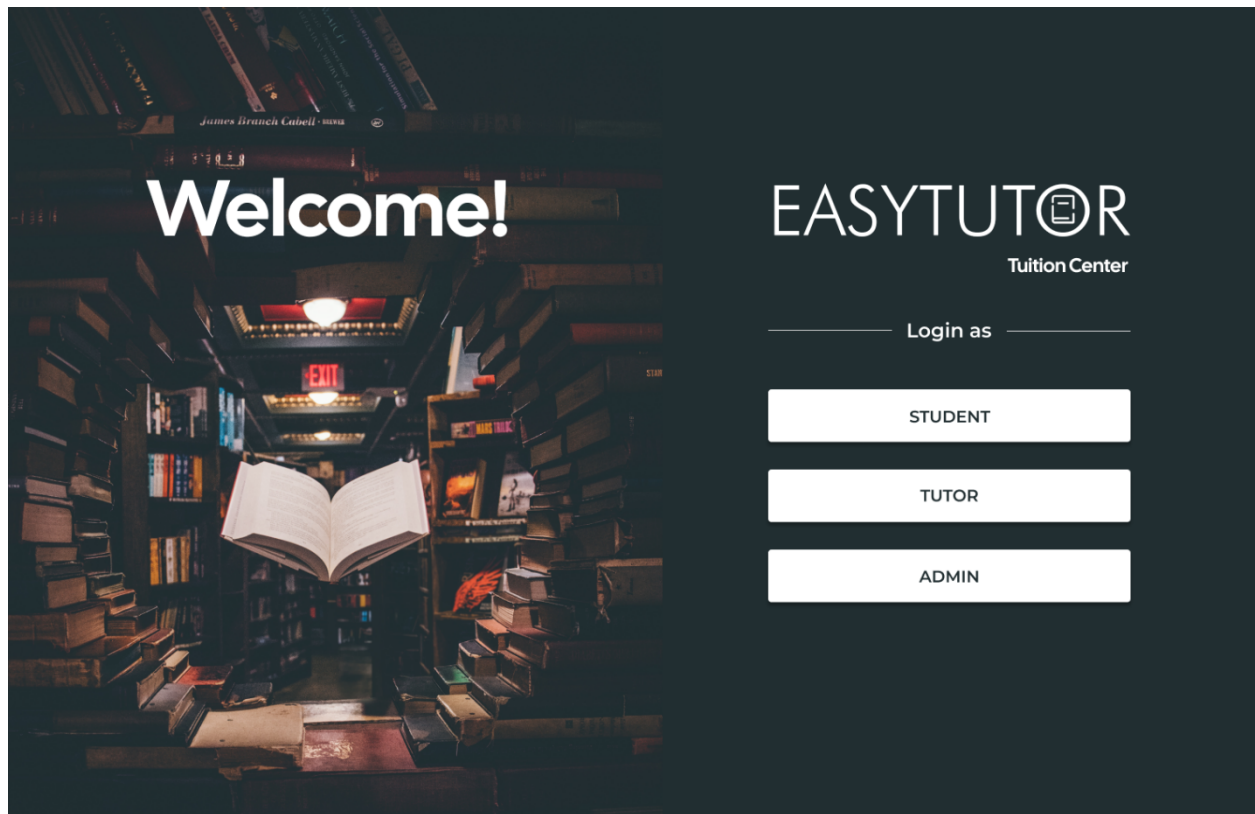
2. Wireframes

Expanding into the tuition center sector, EasyTutor plans to establish numerous centers throughout Singapore. The company intends to recruit both full-time and part-time tutors to join their team. Additionally, they aim to implement a cloud-based system for overseeing the tuition centers, with administrators assigned based on their respective locations. Since EasyTutor only wants to have internal use of the system, we should not allow public users to register to the system. Consequently, accounts are only created for those who have signed up with a tuition center externally via email or EasyTutor's public website.

The proposed business model is designed to balance flexibility and commitment. Teachers commit to a minimum of two sessions per class, each lasting two hours, with a predetermined hourly rate. Students are encouraged to enroll for a minimum of two sessions per class, and for those seeking more, our system accommodates customization during the payment process, particularly for monthly enrollments.

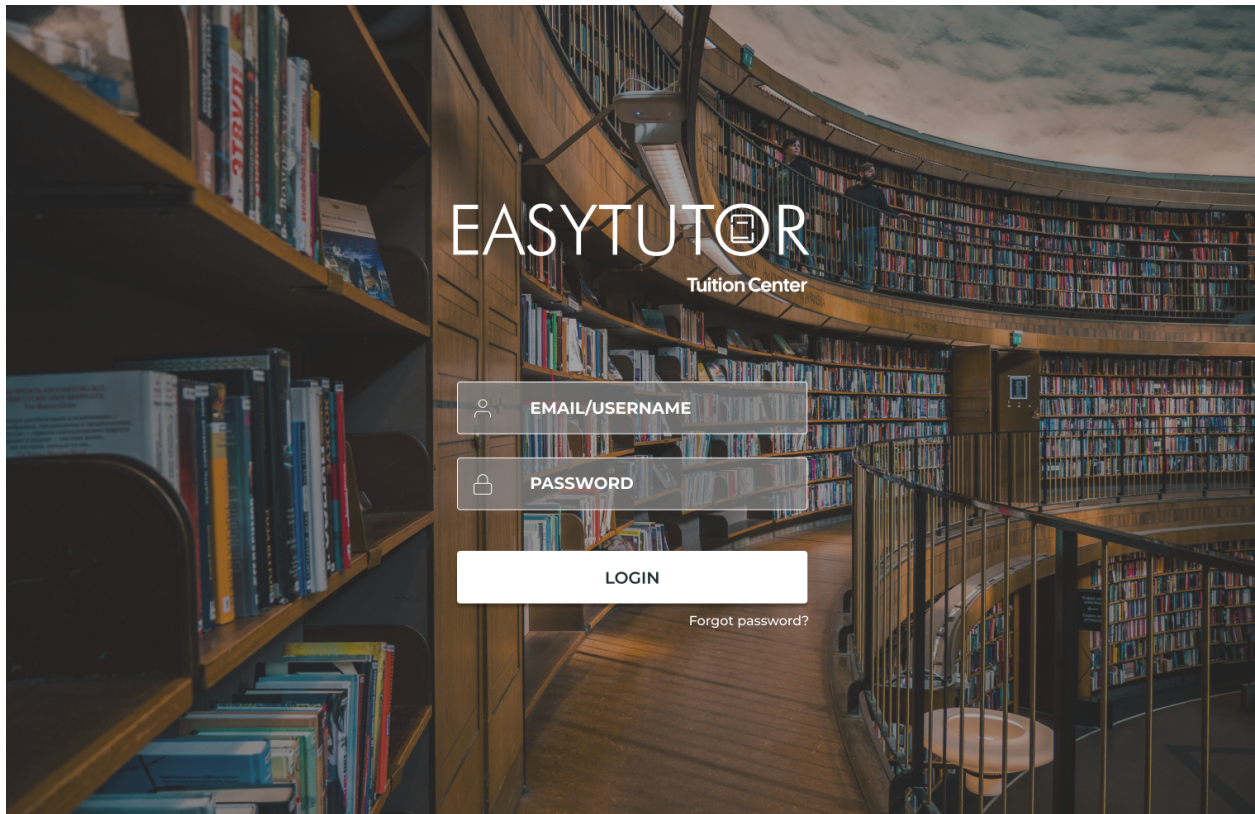
To address unforeseen circumstances, such as missed sessions, we've implemented a session exchange policy. Students may request an exchange, subject to manual approval by the tutor and schedule compatibility, providing a solution for unexpected disruptions. To uphold the integrity of our learning environment, students are required to complete the payment process before securing a class. This ensures a commitment from students and cultivates a focused and engaged community of learners.

Acknowledging the costs associated with online and onsite facilities, as well as the possibility of tutors acquiring students independently, our revenue-sharing system ensures sustainability. In instances where tutors no longer use our facilities, we retain 50% of fees collected, directing the remaining 50% to the tutor.



Welcome Page

This is the welcome page of the EasyTutor tuition center that allows three stakeholders including admins, which are the main users of the system, as well as official students and tutors under EasyTutor to log-in.

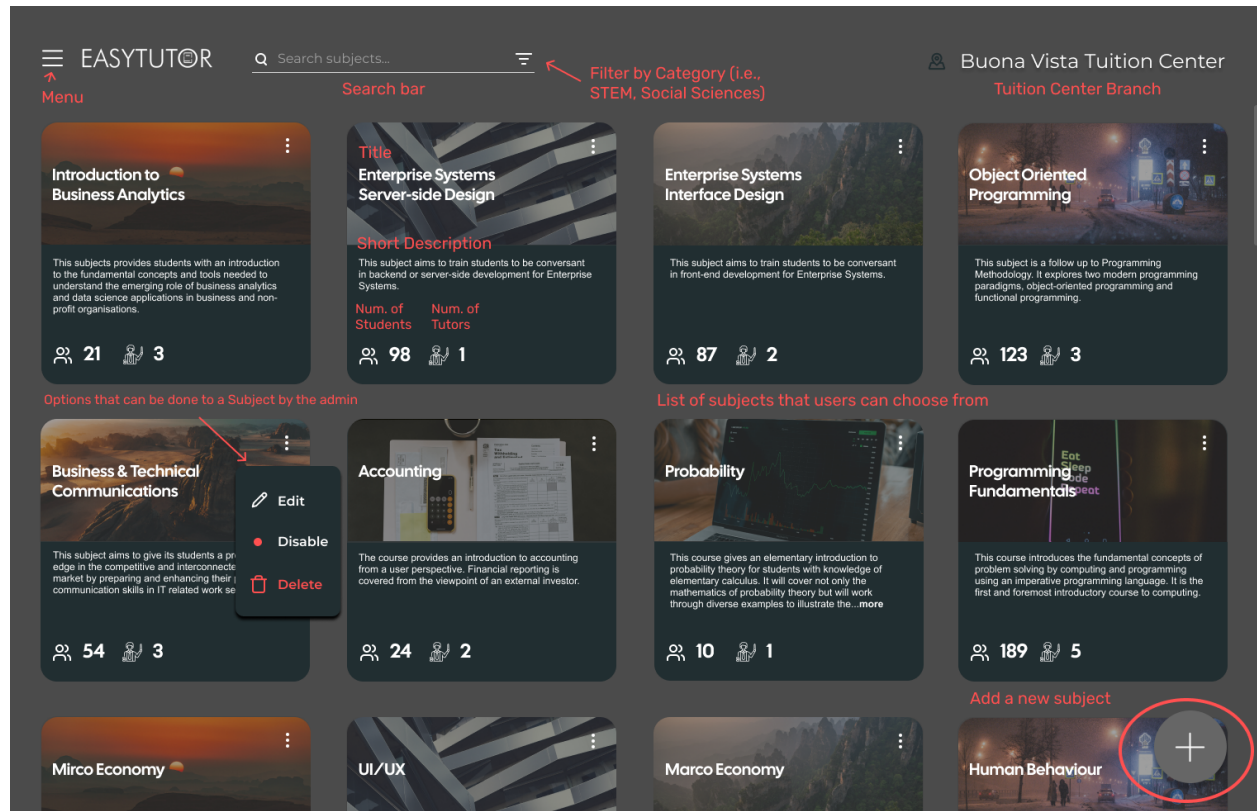


Login Page

Upon accessing the welcome page with the correct log in option, the system will redirect them to the login page, which is the same log in page for all options, as the system is able to recognise the role of different stakeholders through the account record. Subsequently, they are prompted to input the credentials associated with their existing student, tutor, or admin records as provided by EasyTutor. In the event of a password modification or if the password is forgotten, users can initiate the password change process by selecting the "Forgot password" option. This involves utilizing the email or contact number details associated with their initial sign-up.

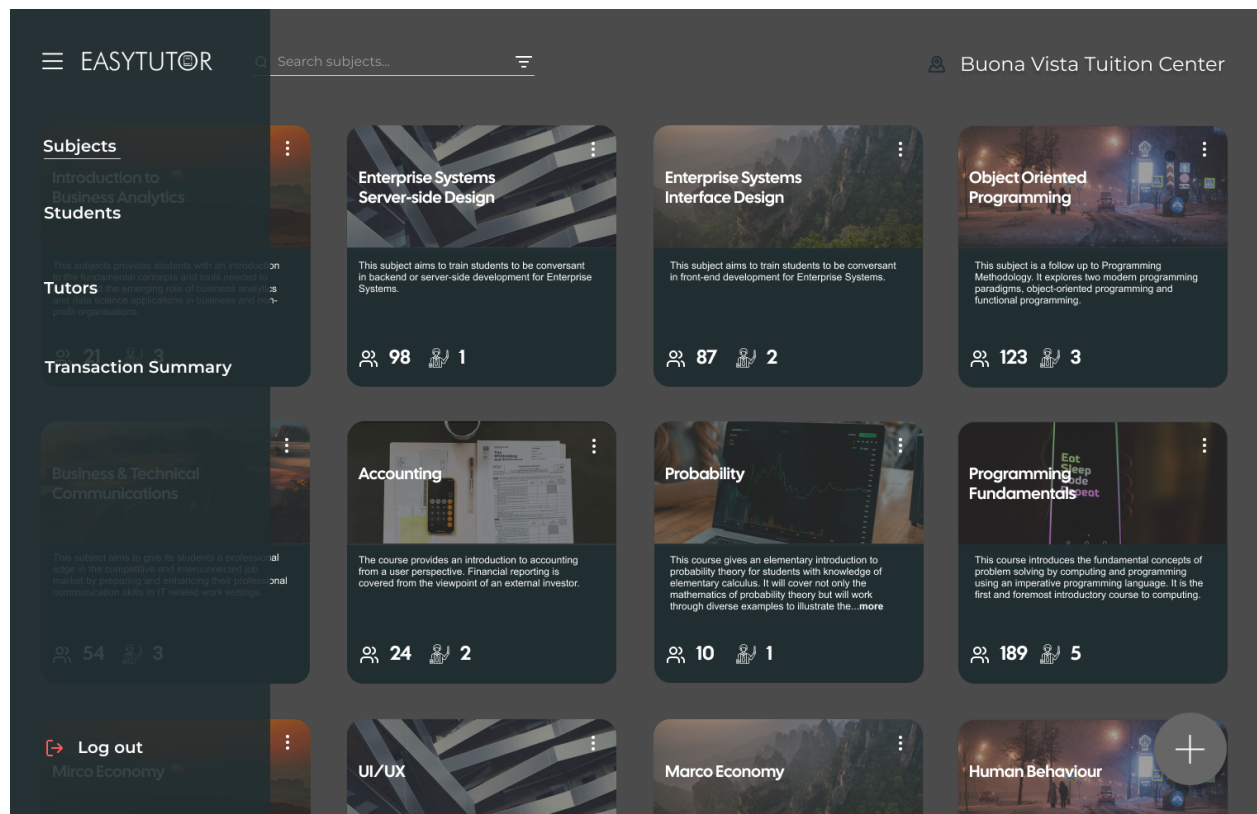
2.1 Admin Viewpoint

2.1.1 Subjects Menu

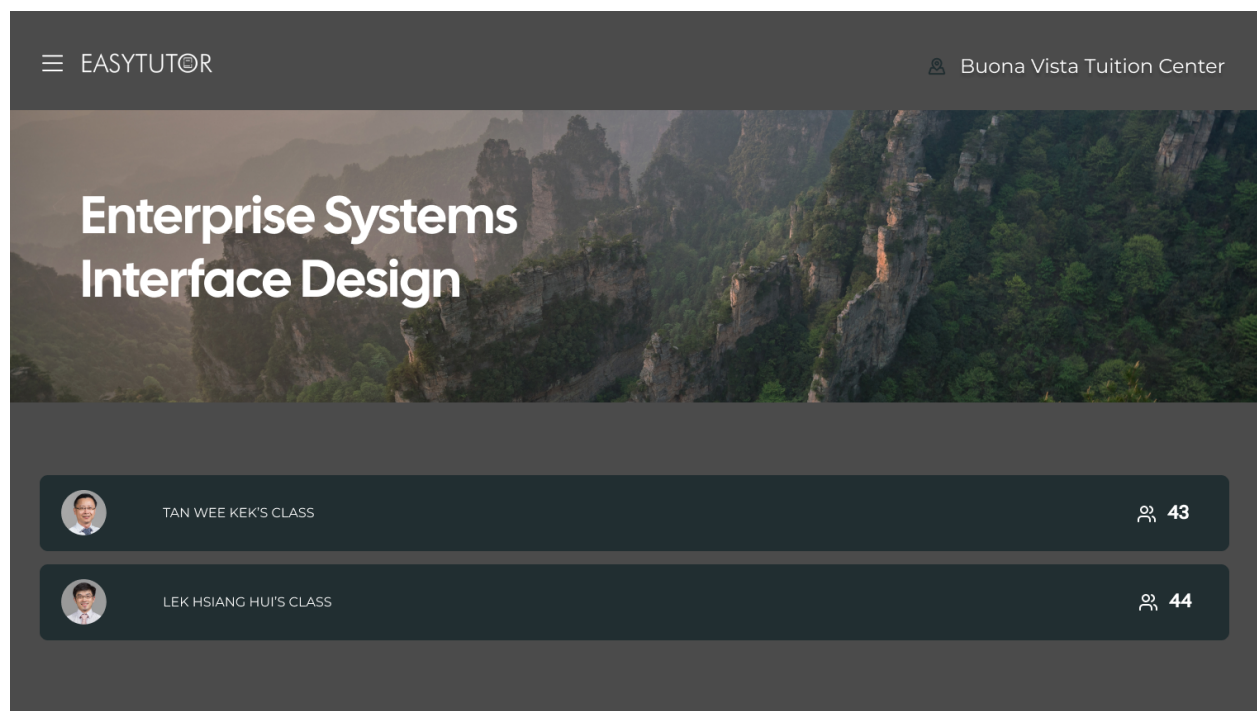


Main Page (Subjects)

EasyTutor's Subject Management Subsystem empowers administrators to handle existing subjects through disabling, deleting, and adding. Admins can effortlessly locate subjects using the search bar and filter function. Each subject includes details on the number of students and tutors (classes). To better navigate the system, a navigation bar indicates the associated tuition center. While the top-left menu provides various options ranging from Subjects, Students, Tutors, and Transaction Summary for admins to operate and explore. Additionally, there is a log out functionality for admins to exit from the system.



Menu Bar



Subject Page – Two classes under Enterprise Systems Interface Design

When admin navigates to one of the subjects listed on the main page, the system redirects them to the subject-specific page. This page includes the title, along with a breakdown of classes taught by different tutors, each displaying the respective total number of students under each tutor. Under a certain class page there are sections including the announcements, schedules and files shared by the tutor. Finally an admin can check on the 44 students' status in the class.

The screenshot shows a web interface for a class titled "Enterprise Systems Interface Design" under the "Buona Vista Tuition Center". The page features a dark header with the "EASYTUTOR" logo and the center's name. The main banner area displays the class title, a circular profile picture of Lek Hsiang Hui, and the text "LEK HSIANG HUI'S CLASS". Below the banner, a sidebar on the left contains navigation links for "Announcements", "Schedules", and "Files", with "Announcements" currently selected. The main content area shows a list of announcements, each with a small profile picture, a title, a brief message, and a "Posted on" timestamp. The announcements are as follows:

Title	Message	Posted on
Tutorial 5 All sections	I know all of you are quite stressed up over the projects, but gentle reminder that we have tutorial 5 today. As we will be going through some submissions by your seniors I can't re...	16 Nov 2023, 09:50
Tutorial 4 All sections	Dear all 1) The tutorial 4 sample solution is now available in the workbin.2) I have also published under Videos/Panopto a lecture recording on tutorial 4 for another of my course. I...	3 Nov 2023, 19:56
Tutorial 4 All sections	Gentle reminder that there's tutorial this week. It will also help you a lot (for your assignment2) if you can attempt tutorial 4 before coming for class.	31 Oct 2023, 17:33
Assignment 1 and Tutorial All sections	Gentle reminder to submit your assignment by Friday. Please also note that there are tutorials this week.	9 Oct 2023, 12:10
Tutorial 2 All sections	Gentle reminder that there's tutorial this week.	19 Sept 2023, 22:13
Tutorial 1 this week All sections	Gentle reminder that there's tutorial this week.	29 Aug 2023, 14:19

Class Page – Enterprise Systems Interface Design under Lek Hsiang Hui

EASYTUTOR

Buona Vista Tuition Center

←

CLASS

Q

Search students in this class

Notify individuals who have not made payments

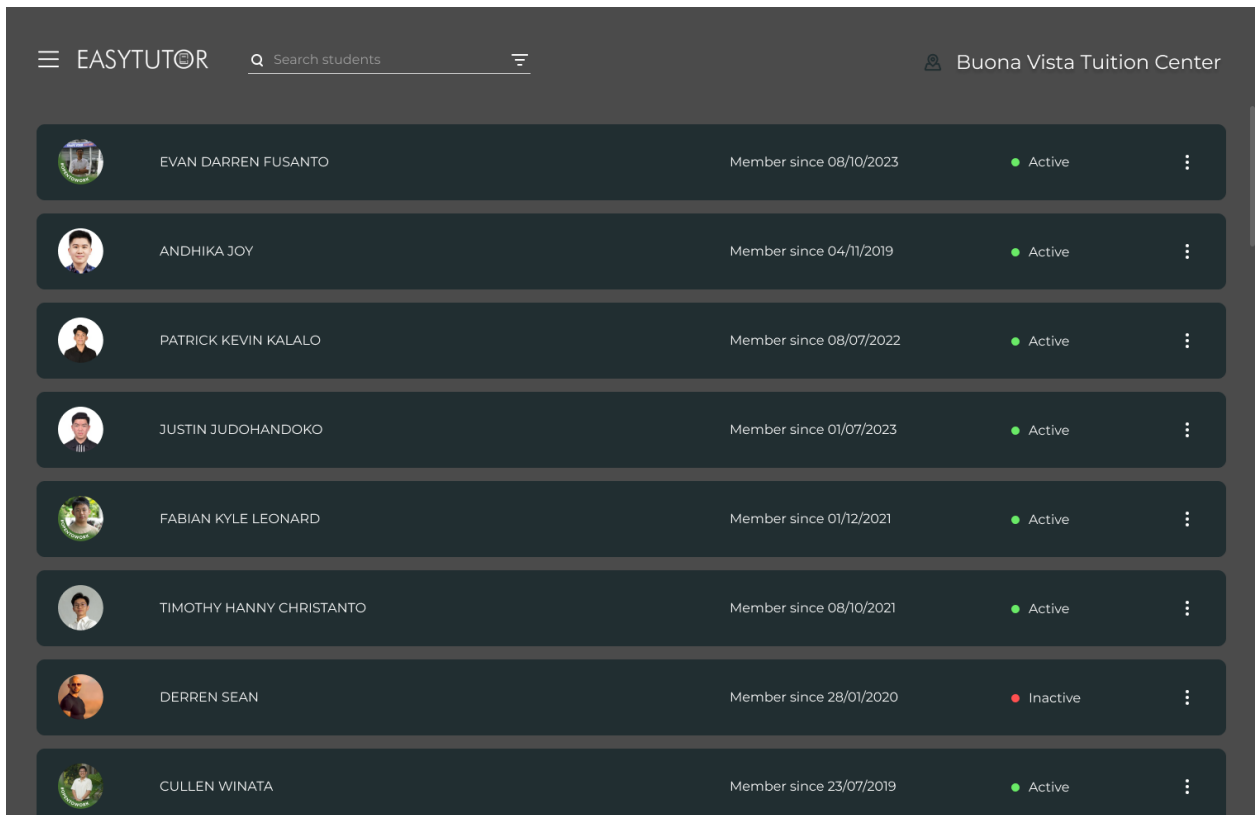
	EVAN DARREN FUSANTO	Unpaid	Member since 08/12/2021	Active	⋮
	ANDHIKA JOY	Paid	Member since 04/11/2019	Active	⋮
	PATRICK KEVIN KALALO	Paid	Member since 08/07/2022	Active	⋮
	JUSTIN JUDOHANDOKO	Paid	Member since 01/07/2023	Active	⋮
	FABIAN KYLE LEONARD	Paid	Member since 01/12/2021	Active	⋮
	TIMOTHY HANNY CHRISTANTO	Unpaid	Member since 08/10/2021	Active	⋮
	DERREN SEAN	Unpaid	Member since 28/01/2020	Inactive	⋮

Disable

Delete

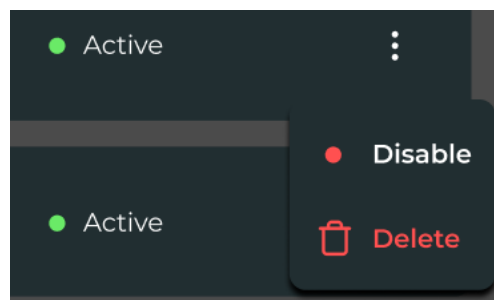
Class Page (Students) under Lek Hsiang Hui's Enterprise Systems Interface Design

2.1.2 Students Menu

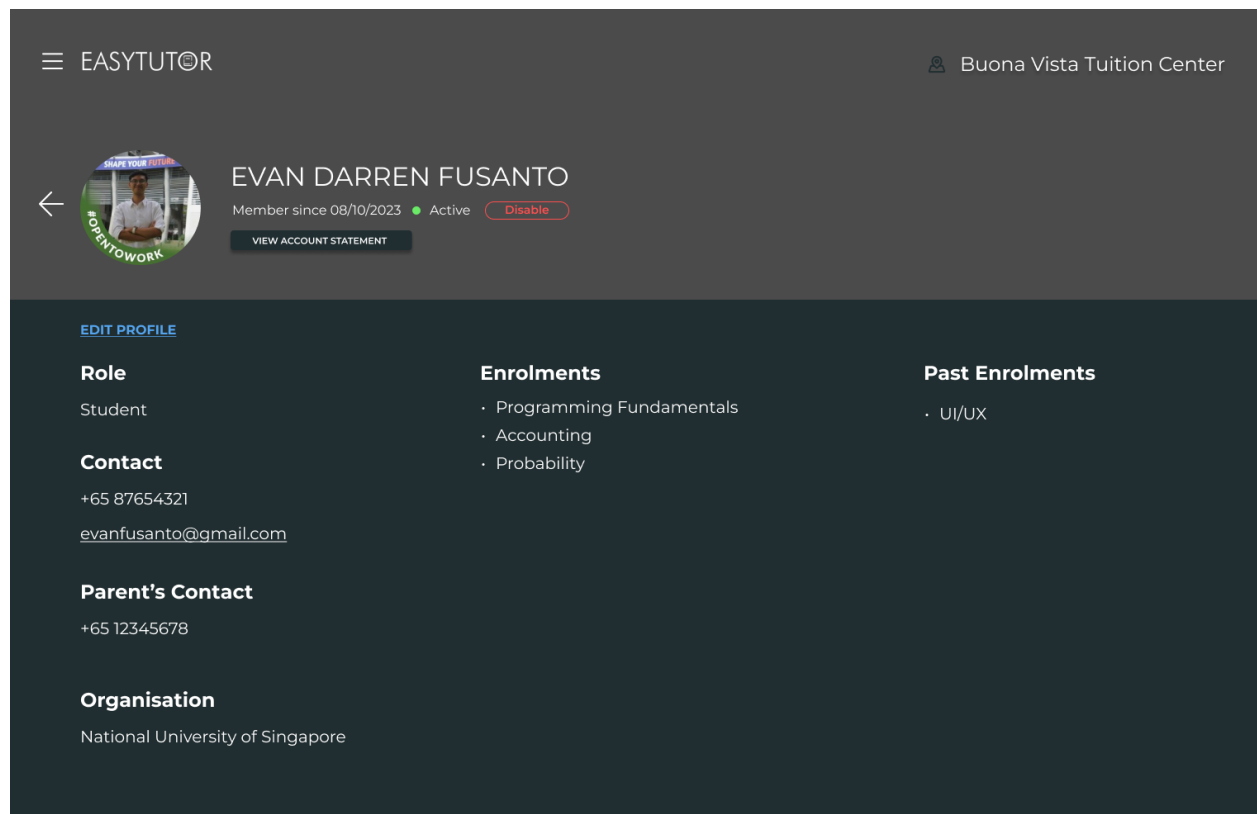


EASYTUTOR	Search students	Buona Vista Tuition Center
	EVAN DARREN FUSANTO	Member since 08/10/2023 ● Active
	ANDHIKA JOY	Member since 04/11/2019 ● Active
	PATRICK KEVIN KALALO	Member since 08/07/2022 ● Active
	JUSTIN JUDOHANDOKO	Member since 01/07/2023 ● Active
	FABIAN KYLE LEONARD	Member since 01/12/2021 ● Active
	TIMOTHY HANNY CHRISTANTO	Member since 08/10/2021 ● Active
	DERREN SEAN	Member since 28/01/2020 ● Inactive
	CULLEN WINATA	Member since 23/07/2019 ● Active

Students Page under Buona Vista EasyTutor Tuition Center



The page above shows the list of students with their corresponding join date as well as status at the tuition center supported by the search function. Admin is also able to disable, ban or delete by clicking on the three dots at the end of the student's panel.



≡ EASYTUTOR Buona Vista Tuition Center

←  **EVAN DARREN FUSANTO**
Member since 08/10/2023 ● Active Disable
VIEW ACCOUNT STATEMENT

[EDIT PROFILE](#)

Role	Enrolments	Past Enrolments
Student	• Programming Fundamentals • Accounting • Probability	• UI/UX

Contact
+65 87654321
evanfusanto@gmail.com

Parent's Contact
+65 12345678

Organisation
National University of Singapore

Evan Darren Fusanto's Student Profile Page

If admin wishes to view a certain student's profile, they can tap on the student's name and it will direct admin to the student's profile as shown above.

Moreover, admins have the capability to modify profile details such as contact number, email, and organization. If a student's picture is deemed inappropriate, administrators can also edit it. Additionally, for the convenience of processing tuition fees, admins can review a student's account statement to identify any outstanding fees, especially in cases where the student or their parent may have forgotten to make a payment. To check on the details, admin can click on each of the panel to view the details (similar to the figure [here](#)).



EVAN DARREN'S STATEMENT OF ACCOUNT

November 2023

Programming Fundamentals, Accounting, Probability Classes

SGD 1,500

Admin Fees

SGD 15

October 2023

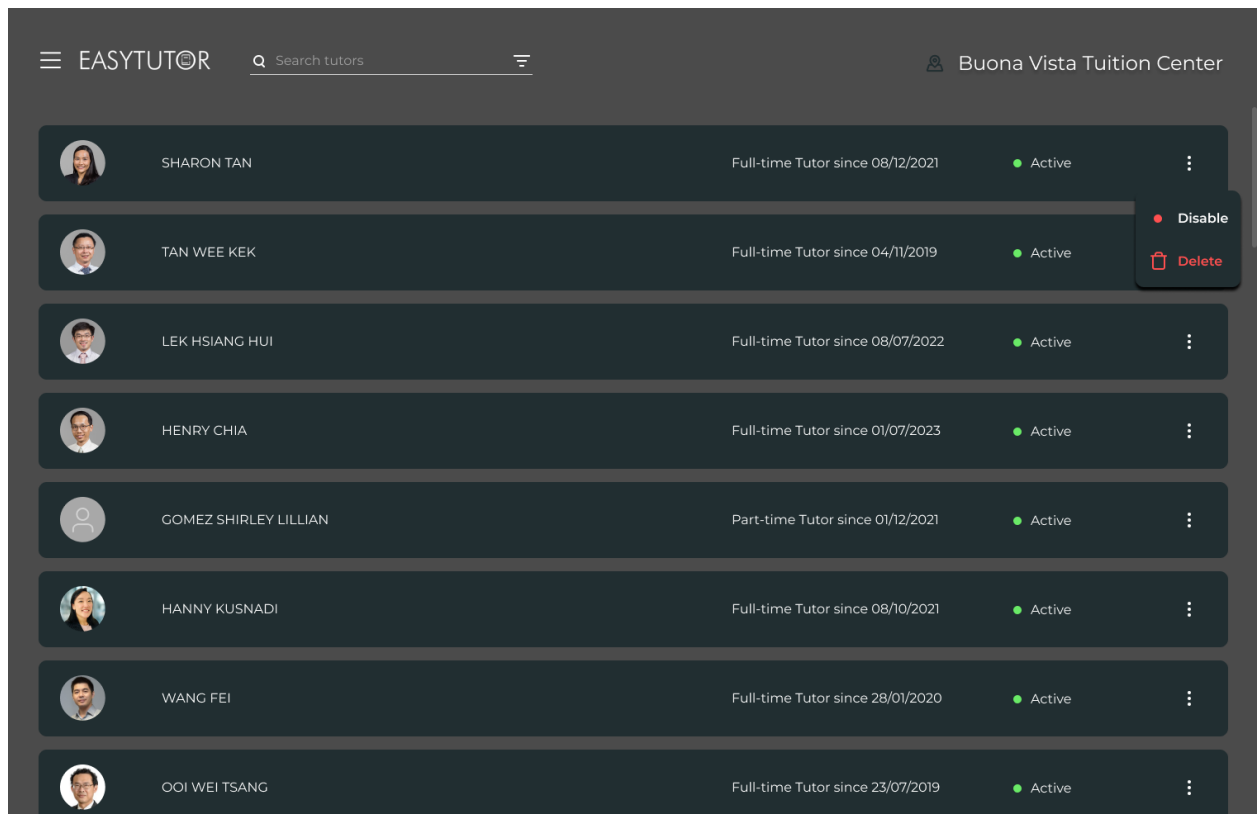
UI/UX, Programming Fundamentals, Accounting Classes

SGD 2,000

Evan Darren Fusanto's Account Statement

2.1.3 Tutors Menu

Similar to the Students menu, administrators have the ability to view, disable, and delete tutors from their database by selecting the three dots. If an administrator wants to search for a particular tutor, they can enter the relevant information into the search bar, and the corresponding results will be displayed. To view details, the administrator can click on the tutor's name, which will redirect them to the profile page of the selected tutor. From there admin can access or edit the tutor's information including the payroll statement.



EASYTUTOR		Search tutors		Buona Vista Tuition Center
	SHARON TAN	Full-time Tutor since 08/12/2021	● Active	⋮
	TAN WEE KEK	Full-time Tutor since 04/11/2019	● Active	⋮ ● Disable 🗑 Delete
	LEK HSIANG HUI	Full-time Tutor since 08/07/2022	● Active	⋮
	HENRY CHIA	Full-time Tutor since 01/07/2023	● Active	⋮
	GOMEZ SHIRLEY LILLIAN	Part-time Tutor since 01/12/2021	● Active	⋮
	HANNY KUSNADI	Full-time Tutor since 08/10/2021	● Active	⋮
	WANG FEI	Full-time Tutor since 28/01/2020	● Active	⋮
	OOI WEI TSANG	Full-time Tutor since 23/07/2019	● Active	⋮

Tutors Page under Buona Vista EasyTutor Tuition Center

2.1.4 Transaction Summary Menu

Within this section, administrators have the capability to monitor the financial operations of the tuition center comprehensively. This involves overseeing both incoming and outgoing transactions, along with accessing a detailed transaction history and information about the payees involved in the financial transactions. The administrator can gain a comprehensive understanding of the financial landscape by exploring the ins and outs, ensuring transparency and accountability in managing the financial aspects of the tuition center.

EASYTUTOR		Buona Vista Tuition Center
		FILTER BY
Saturday, 25 November 2023		
	SHARON TAN	SGD 1,000
	LEK HSIANG HUI	SGD 10,000
Friday, 24 November 2023		
	DERREN SEAN	SGD 1,000,000
	ANDHIKA JOY	SGD 5,000
	HENRY CHIA	SGD 2,000
	OOI WEI TSANG	SGD 3,000
Thursday, 23 November 2023		

Buona Vista EasyTutor Transaction History (Summary)

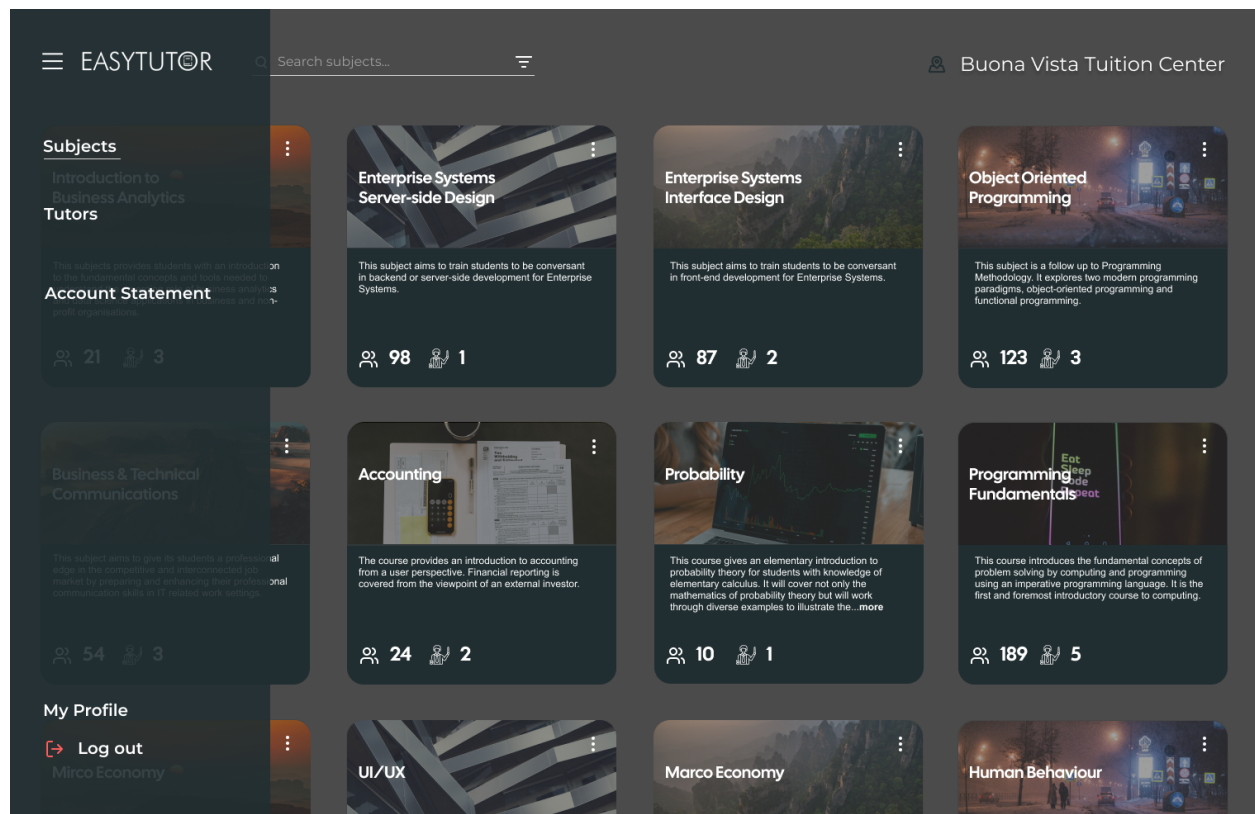


Transaction / Summary Details Window

2.2 Student Viewpoint

2.2.1 Subjects Menu

Similar to the administrator's perspective, the Subjects main page is populated with the subjects offered at Buona Vista EasyTutor Tuition Center. The option dots provide various functions, and for students, the only available action is to unenroll from the subject panel. This limitation is in place as students are permitted to follow only a single class per subject.



Student's Main Page

However, when it comes to looking into the subject page itself there are some differences considering that students are able to enroll and unenroll to different classes from different subjects. To safely process this enrollment, the students are able to view the different classes for a specific subject as shown below:

The screenshot displays a web interface for a subject page. At the top, a dark header bar contains the 'EASYTUTOR' logo on the left and the user profile 'Buona Vista Tuition Center' on the right. Below the header is a large banner image of a mountain landscape with the text 'Enterprise Systems Interface Design' overlaid in white. Underneath the banner, there is a list of two classes, each in a dark grey card. The first card shows a profile picture of Tan Wee Kek, the class name 'TAN WEE KEK'S CLASS', and a count of 43. The second card shows a profile picture of Lek Hsiang Hui, the class name 'LEK HSIANG HUI'S CLASS', and a count of 44.

Class Name	Count
TAN WEE KEK'S CLASS	43
LEK HSIANG HUI'S CLASS	44

Subject Page

Enterprise Systems Interface Design



LEK HSIANG HUI'S CLASS

Schedules

Please select a minimum of 2 slots to enroll in the class

***Please do note that you are going to be enrolled into a class that happens recurrently**

- | | | |
|-------------------------------------|---------------------|----|
| ☒ | Tuesday, 10 - 12 PM | 11 |
| ☐ | Tuesday, 12 - 2 PM | 11 |
| ☐ | Tuesday, 4 - 6 PM | 11 |
| ☐ | Thursday, 12 - 2 PM | 3 |
| ☒ | Friday, 4 - 6 PM | 8 |

ENROLL

When a student clicks on a specific class, the available schedules for that class will be displayed. To enroll in the class, students must select a minimum of two schedules from those set by the tutor. Payment is a prerequisite for class enrollment, and students are expected to pay upfront on the payment page (similar to the figure [here](#)). In cases where fees remain unpaid, the status will be indicated as "unpaid." To settle pending fees, students can conveniently access the payment option through the [Account Statement Menu](#).

Once enrolled the class will look similar to the image below:

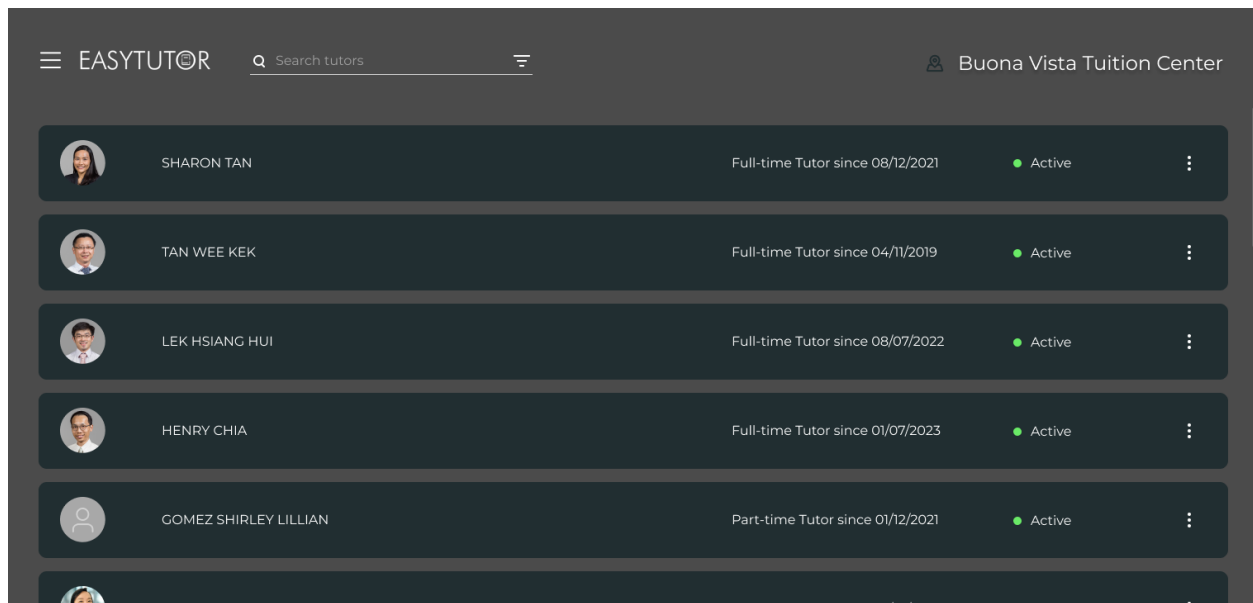
The screenshot shows a web interface for a class on EASYTUTOR. The header is dark grey with the EASYTUTOR logo on the left and 'Buona Vista Tuition Center' on the right. The main banner features a scenic mountain landscape with the text 'Enterprise Systems Interface Design' in large white font. To the right of the title is a circular profile picture of a man and the text 'LEK HSIANG HUI'S CLASS'. Below the banner, on the left, is a dark sidebar with links for 'Announcements', 'Schedules', and 'Files'. The main content area has a search bar at the top and a list of announcements below. Each announcement includes a small profile picture, a title, a message, and a 'Posted on' date and time.

Announcement	Posted on
Tutorial 5 All sections I know all of you are quite stressed up over the projects, but gentle reminder that we have tutorial 5 today. As we will be going through some submissions by your seniors I can't re...	16 Nov 2023, 09:50
Tutorial 4 All sections Dear all 1) The tutorial 4 sample solution is now available in the workbin.2) I have also published under Videos/Panopto a lecture recording on tutorial 4 for another of my course. L...	3 Nov 2023, 19:56
Tutorial 4 All sections Gentle reminder that there's tutorial this week. It will also help you a lot (for your assignment2) if you can attempt tutorial 4 before coming for class.	31 Oct 2023, 17:33
Assignment 1 and Tutorial All sections Gentle reminder to submit your assignment by Friday. Please also note that there are tutorials this week.	9 Oct 2023, 12:10
Tutorial 2 All sections Gentle reminder that there's tutorial this week.	19 Sept 2023, 22:13
Tutorial 1 this week All sections Gentle reminder that there's tutorial this week.	29 Aug 2023, 14:19

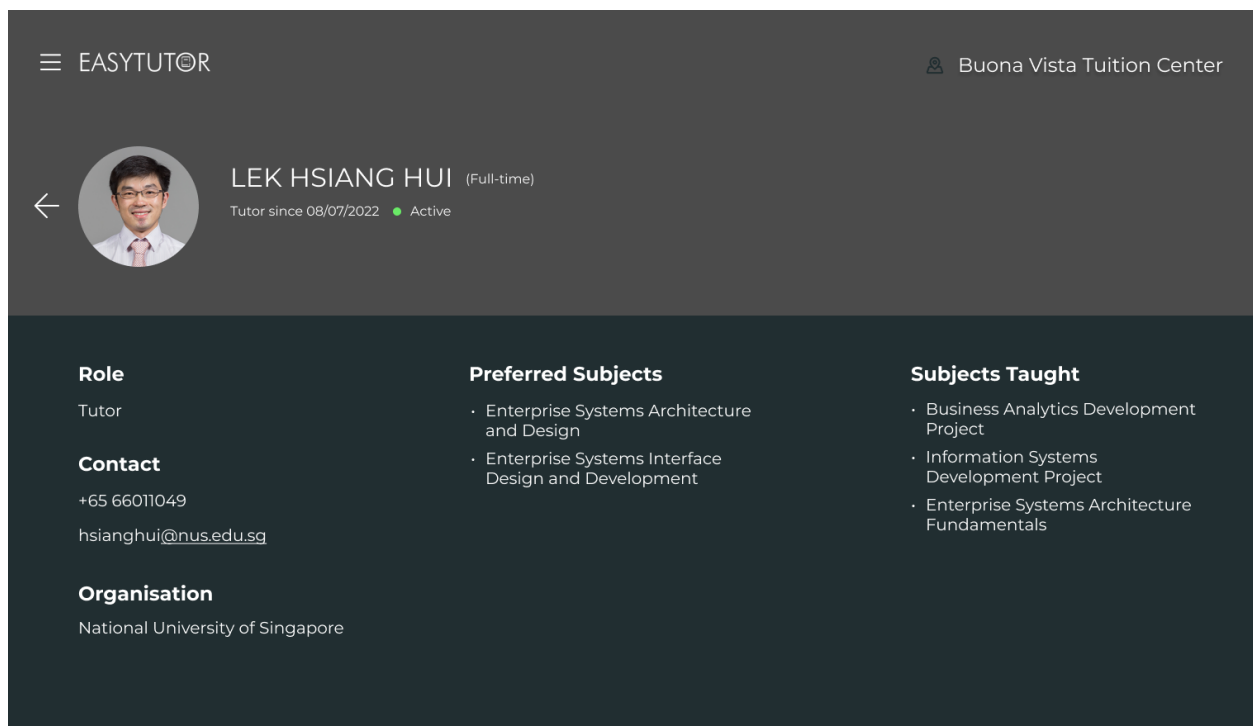
Class Page – Enterprise Systems Interface Design under Lek Hsiang Hui

2.2.2 Tutors Menu

In this menu, students can browse through different tutors with their corresponding profile details that the tuition center provides.



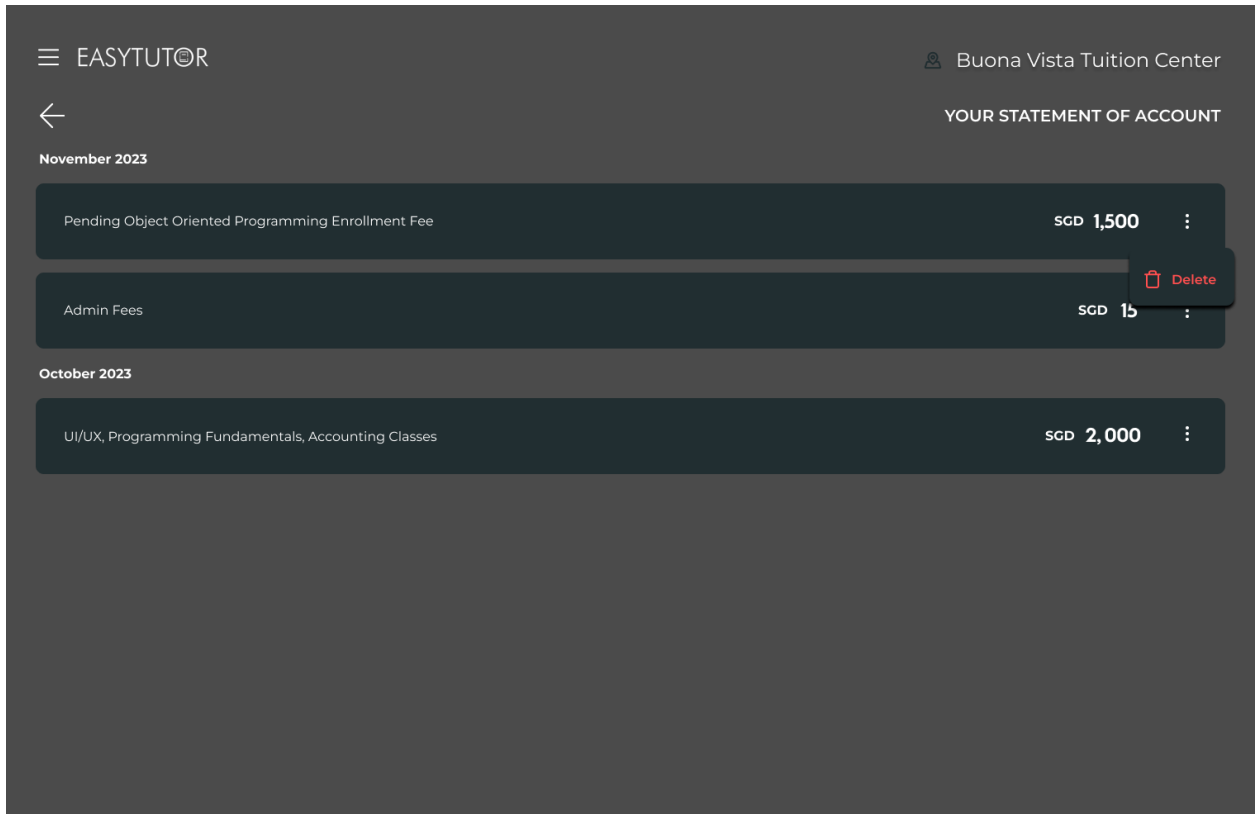
Tutors Page under Buona Vista EasyTutor Tuition Center



Lek Hsiang Hui's Profile page on Student's view point

2.2.3 Account Statement Menu

This is where all the pending fee payments and outstanding fees are listed.



EASYTUTOR		Buona Vista Tuition Center	
		YOUR STATEMENT OF ACCOUNT	
November 2023			
Pending Object Oriented Programming Enrollment Fee	SGD 1,500	:	
Admin Fees	SGD 15	:	Delete
October 2023			
UI/UX, Programming Fundamentals, Accounting Classes	SGD 2,000	:	

Student Account Statement Page

If lets say if someone wishes to delete the pending enrollment payments, they are able to do so by right clicking on the option buttons. Otherwise, they can click on each of the panels to pay the fees at the payment page.

EASYTUTOR

Buona Vista Tuition Center

ACCOUNT STATEMENT

Payment

Confirm

VISA

Card number

Enter the 16-digit card number on the card

Card owner

Enter the name on the card

Expiry date

Enter the expiration date of the card

/

23

CVV2

Security code

012

November Fee Summary

Class	Freq/ Week	Fees
Accounting (Hanny Kusnadi)	(x3)	\$S\$1000
Macro Economy (Wu Ting Ting)	(x2)	\$S\$700
		Total : \$S\$1700

REVIEW YOUR PAYMENT

Payment Page

2.2.4 My Profile

This is the profile section of the current account owner where he/she is able to edit the profile picture, organisation, contact numbers and email address. On top of that students are also able to view their account statement by clicking on the view account statement button, which will direct them to the Account Statement Menu. The enrolments and past enrolments are generated based on the student record and are not available for edits.

Buona Vista Tuition Center



EVAN DARREN FUSANTO
Member since 08/10/2023 ● Active
[VIEW ACCOUNT STATEMENT](#)

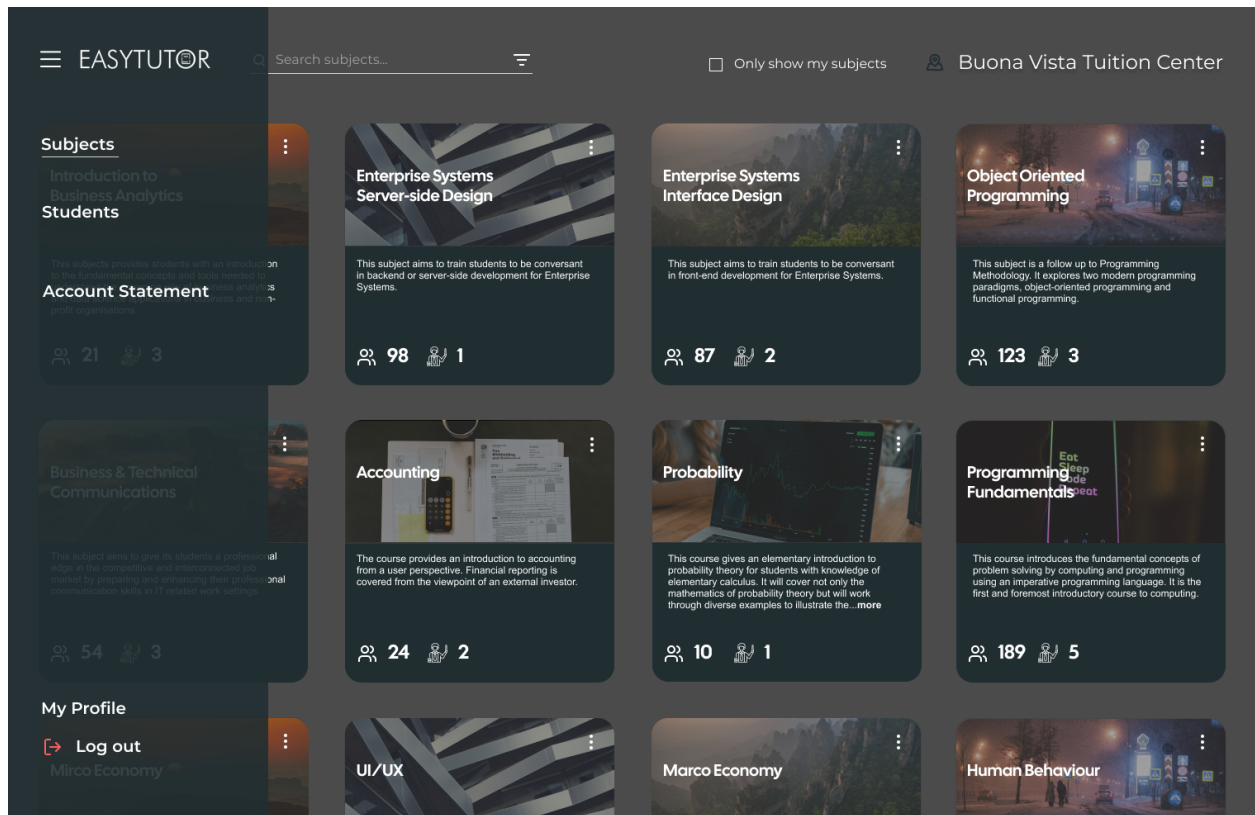
[EDIT PROFILE](#)

Role	Enrolments	Past Enrolments
Student	• Programming Fundamentals • Accounting • Probability	• UI/UX
Contact +65 87654321 evanfusanto@gmail.com		
Parent's Contact +65 12345678		
Organisation National University of Singapore		

My Profile Page - Student

2.3 Tutor Viewpoint

2.3.1 Subject Menu



Tutor main page

Similar to the admin and student main page, the main page are filled by subjects that are available under Buona Vista Tuition EasyTutor Tuition Center. Furthermore, there is a function that tutors can toggle around is the “Only view my subjects” box. If tutor ticks this box, system will only show the subjects that the current tutor teaches on the main page.

Enterprise Systems Interface Design

[+ Join](#)

TAN WEE KEK'S CLASS

43



LEK HSIANG HUI'S CLASS

44

Subject Page – Tutor

Upon accessing a certain subject, a tutor is able to view other classes by other tutors under the same subject. If tutor wishes to teach the same subject as well, the tutor presses on the + Join button to set up his/her schedules (minimum 2 schedules) for the class through a form on the pop up window. Upon successful creation of the class, the tutor can now access his/her own class by ticking on the box on the main page.

2.3.2 Students Menu

Similar to every students menu shown before, this enables tutors to view students under a certain tuition center, in this case Buona Vista EasyTutor Tuition Center.

	EVAN DARREN FUSANTO	Member since 08/10/2023	● Active	⋮
	ANDHIKA JOY	Member since 04/11/2019	● Active	⋮
	PATRICK KEVIN KALALO	Member since 08/07/2022	● Active	⋮
	JUSTIN JUDOHANDOKO	Member since 01/07/2023	● Active	⋮
	FABIAN KYLE LEONARD	Member since 01/12/2021	● Active	⋮
	TIMOTHY HANNY CHRISTANTO	Member since 08/10/2021	● Active	⋮

	EVAN DARREN FUSANTO	Member since 08/10/2023 ● Active
Role	Enrolments	Past Enrolments
Student	· Programming Fundamentals · Accounting · Probability	· UI/UX
Contact		
+65 87654321		
evanfusanto@gmail.com		
Parent's Contact		
+65 12345678		
Organisation		
National University of Singapore		

2.3.3 Account Statement Menu

This menu provides a media for tutors to view and access their payroll to ensure successful transaction between EasyTutor and the tutors.

The screenshot displays the 'YOUR STATEMENT OF ACCOUNT' page for Buona Vista Tuition Center. It lists monthly payroll amounts in SGD for the months of November 2023, October 2023, September 2023, August 2023, and July 2023. Each entry shows the month and year, the type of payment (payroll), and the amount in SGD.

EASYTUTOR		Buona Vista Tuition Center
		YOUR STATEMENT OF ACCOUNT
November 2023		
November payroll	SGD	5,000
October 2023		
October payroll	SGD	3,500
September 2023		
September payroll	SGD	3,000
August 2023		
August payroll	SGD	3,500
July 2023		
July payroll	SGD	2,500

Tutor Account Statement Page

2.3.4 My Profile

This is the profile section of the current account tutor where he/she is able to edit the profile picture, organisation, contact numbers and email address. On top of that tutors are also able to view their account statement by clicking on the view account statement button, which will direct them to the Account Statement Menu. The preferred subjects and subjects taught are generated based on the tutor record and are not available for edits.

Buona Vista Tuition Center



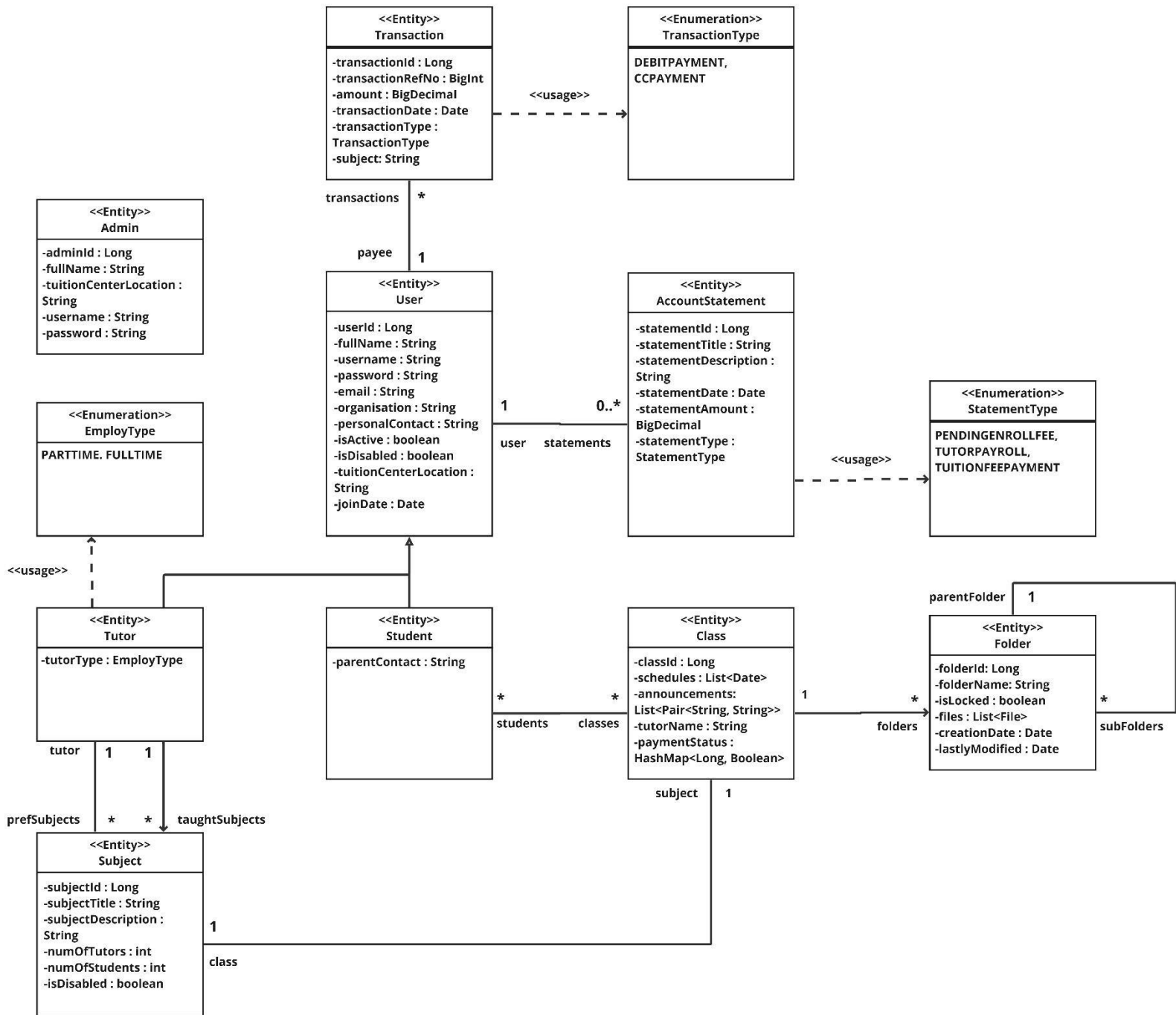
LEK HSIANG HUI (Full-time)
Tutor since 08/07/2022 Active
[VIEW ACCOUNT STATEMENT](#)

[EDIT PROFILE](#)

Role Tutor	Preferred Subjects - Enterprise Systems Architecture and Design - Enterprise Systems Interface Design and Development	Subjects Taught - Business Analytics Development Project - Information Systems Development Project - Enterprise Systems Architecture Fundamentals
Contact +65 66011049 hsianghui@nus.edu.sg		
Organisation National University of Singapore		

My Profile Page – Tutor

3. Domain Class Diagram



EasyTutor Tuition Center Domain Class Diagram

