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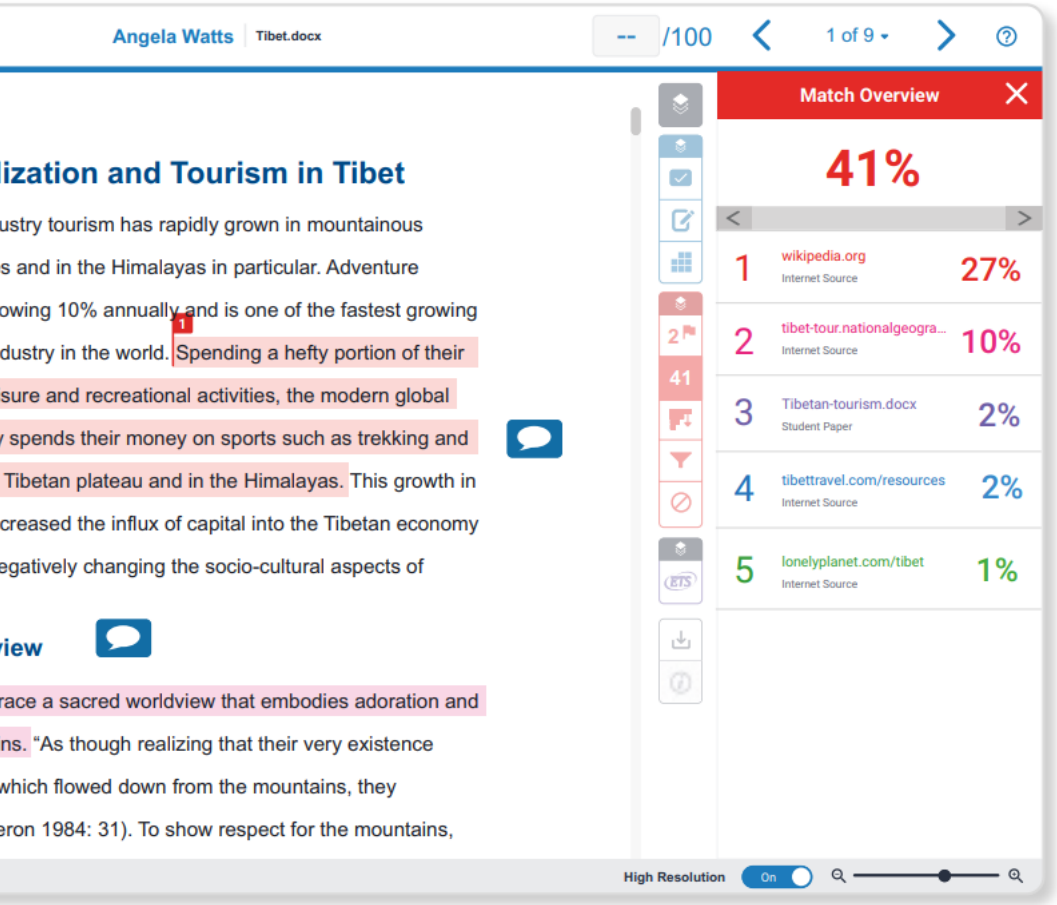

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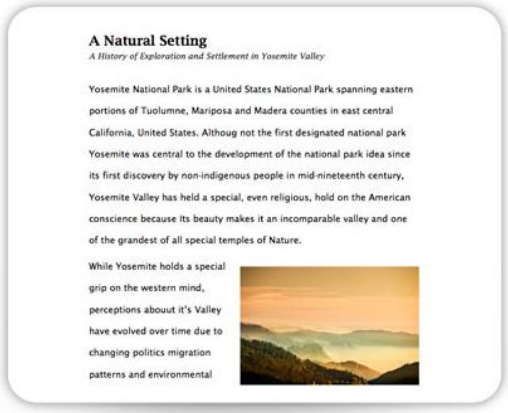

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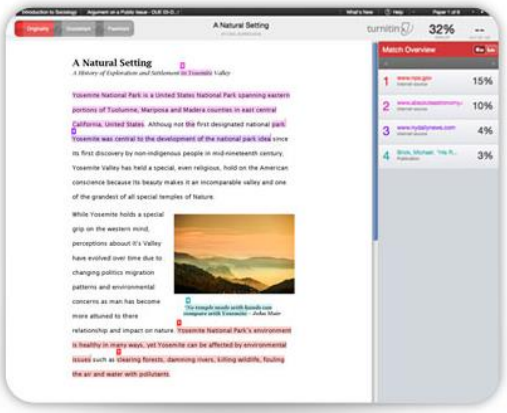

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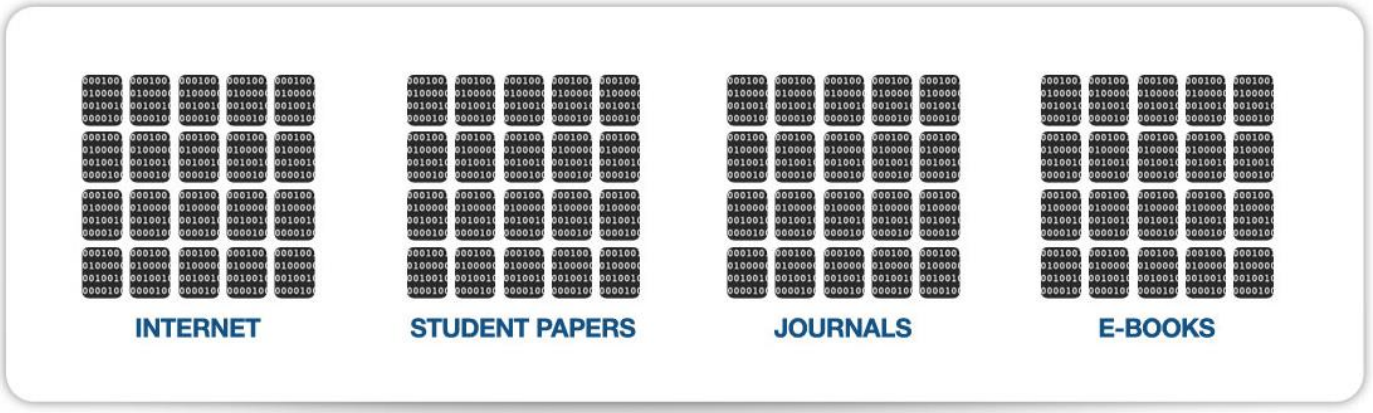

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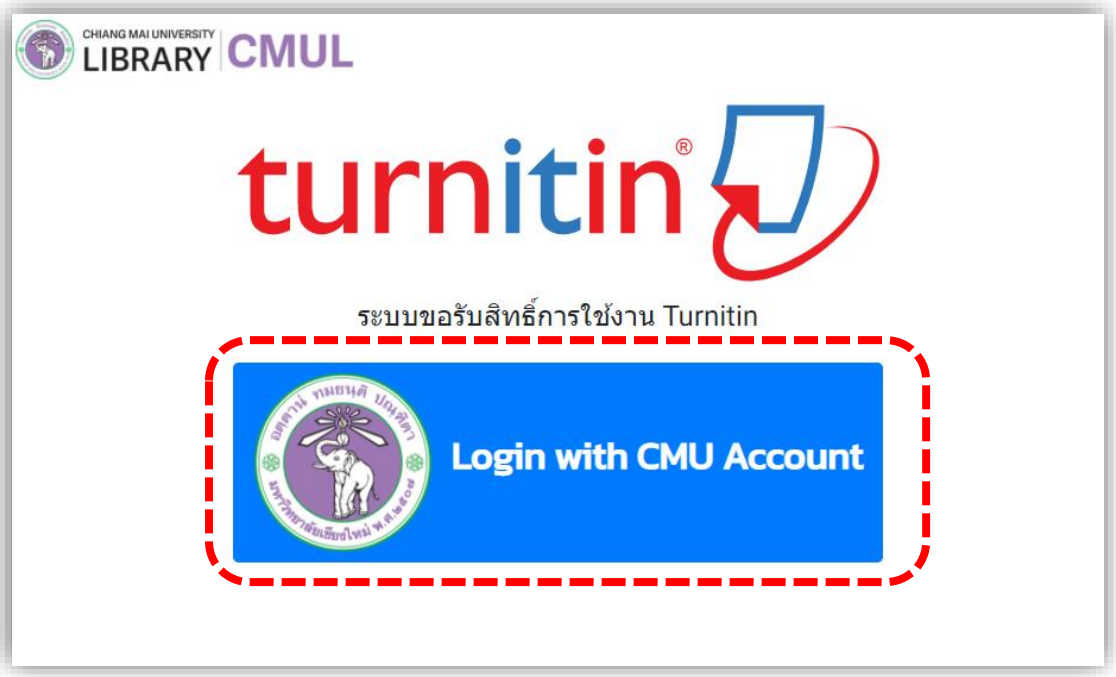

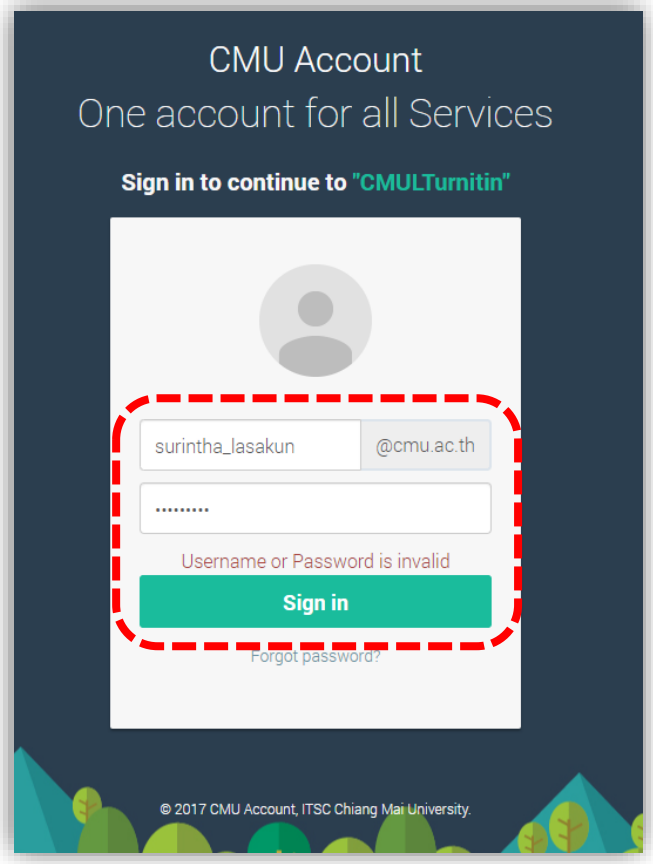

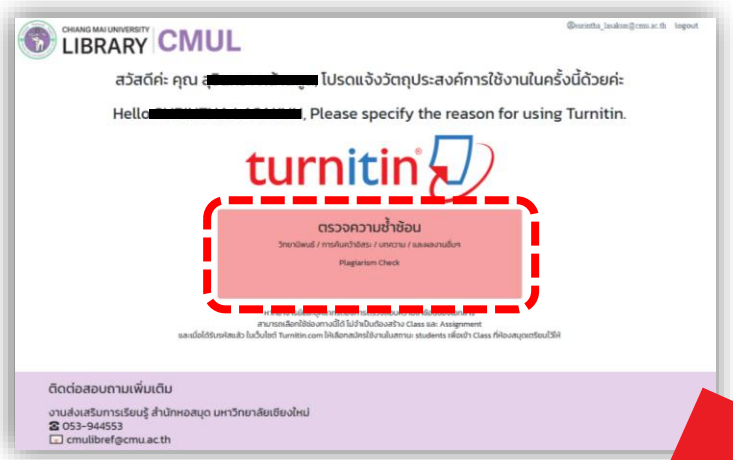
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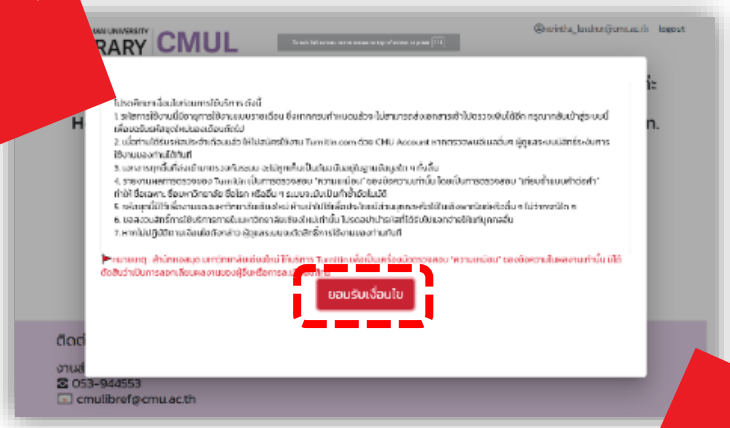
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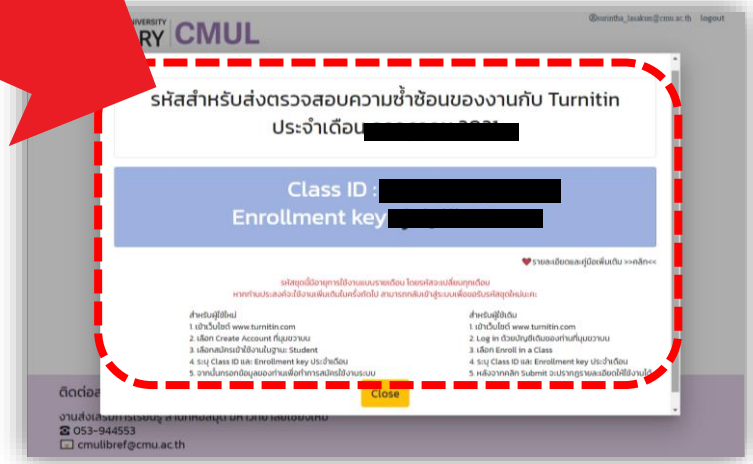
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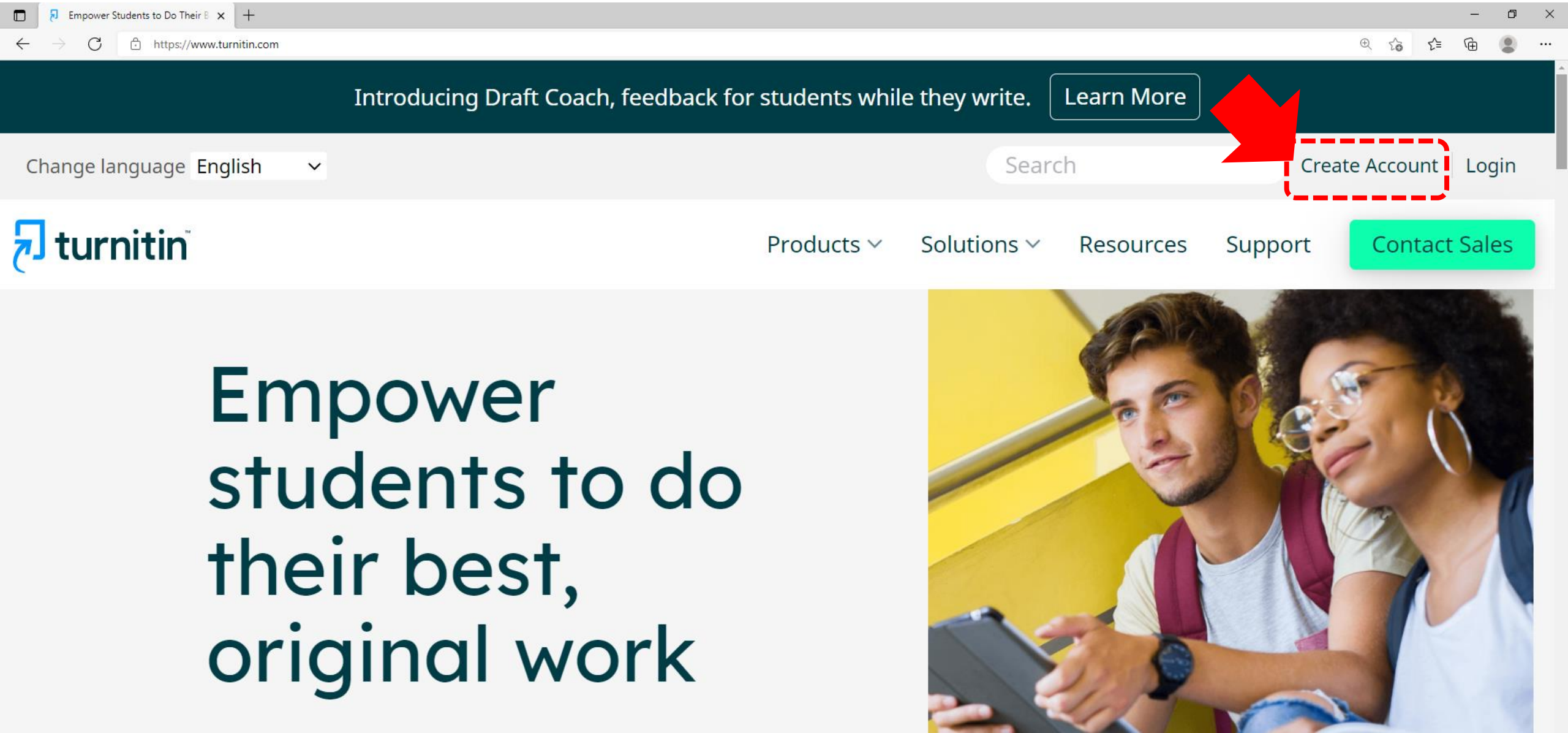
01
สำหรับผู้ใหม่
บัญชีสถานะ
Students
02
สำหรับผู้เดิม
บัญชีสถานะ
Students
03
สำหรับผู้ที่มีบัญชี
Instructor
แต่ต้องการใช้ใน
สถานะ Students
รูปแบบการใช้งาน

สำหรับผู้ใช้ใหม่

บัญชีสถานะ Students

การเริ่มต้นใช้ Turnitin.com



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Create a New Student Profile

Class ID Information

All students must be enrolled in an active class. To enroll in a class, please enter the class ID number and class enrollment key that you were given by your instructor.

Please note that the key and pincode are case-sensitive. If you do not have this information, or the information you are entering appears to be incorrect, please contact your instructor.

กรอกโค้ดที่จากระบบขอสิทธิ์

Class ID

Class enrollment key

User Information

Your first name

Your last name

Display names as
- First name (Space) Last name (example: John Smith)
- Last name (Space) First name (example: Smith John)
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กรอกข้อมูลสมัครสมาชิก

Email address

Confirm email address

Password and Security

Please keep in mind that your password is case sensitive (for example, paSS1234 would be different than pass1234) and must be at least 8 characters long.

Enter your password

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Please select a secret question.

Question answer

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All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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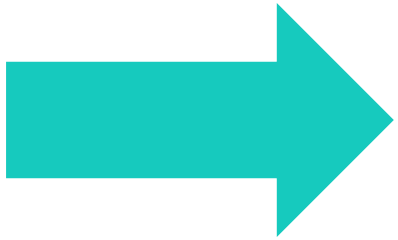
Turnitin will have a scheduled system maintenance Aug 14, 2021 from 8am – 10am PDT (for local timezone please click Time zone converter). Due to the maintenance, Turnitin will be unavailable between those times.

About this page

This is your student homepage. The homepage shows the classes you are enrolled in. To enroll in a new class, click the enroll in a class button. Click a class name to open your class homepage for the class. From your homepage, you can submit a paper. For more information on how to submit, please see our help page.

Chiang Mai University

Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
28693756	**(CMUL) Check Plagiarism : October 2022**	**CMU Library**	Active	15-Mar-2021	31-Jul-2021	
28630955	April 2021	Surintha Lasakun	Expired	09-Mar-2021	30-Apr-2021	

จากนั้นไปที่  การส่งเอกสารเข้าไปตรวจกับ **Turnitin**

สำหรับผู้ใช้เดิม

บัญชีสถานะ Students

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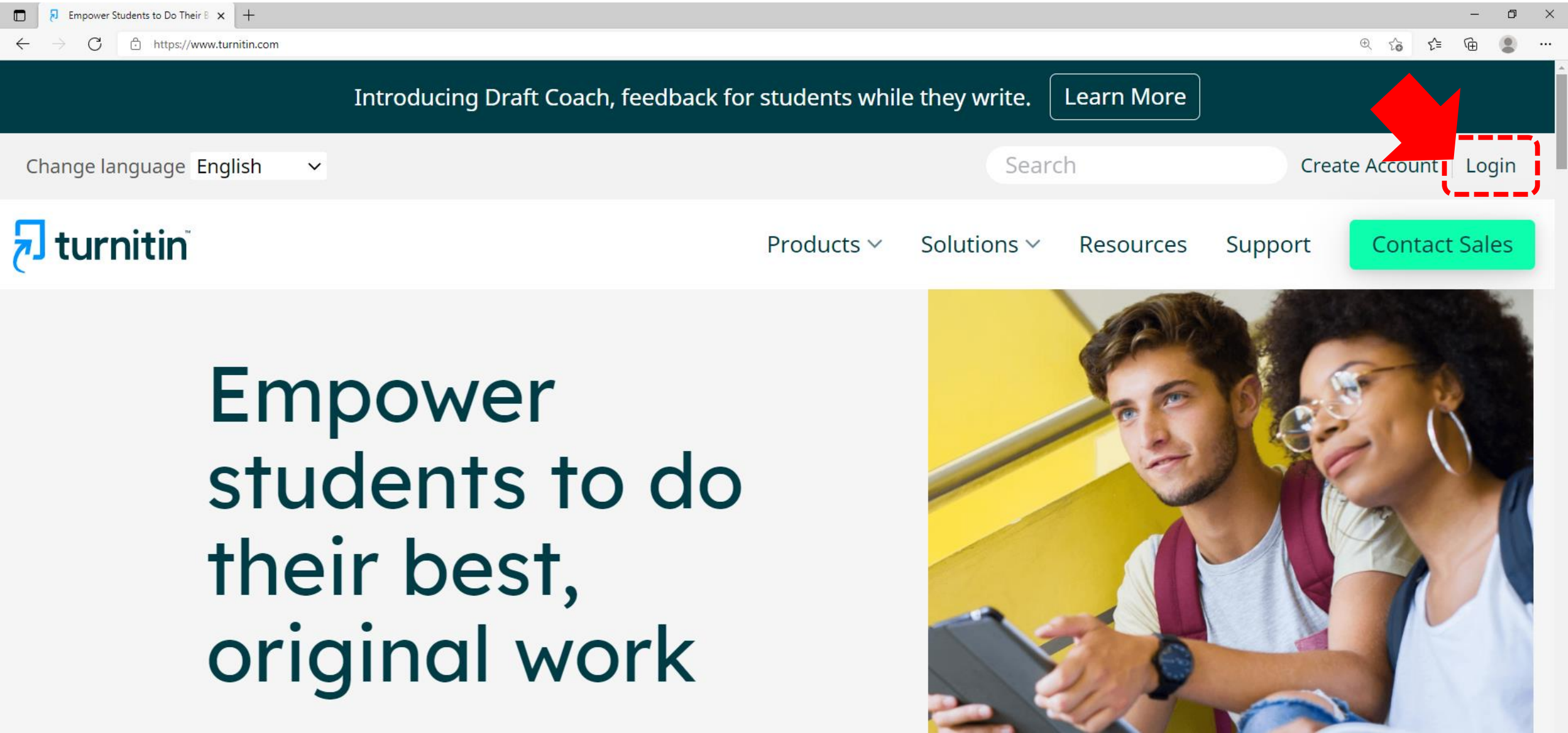

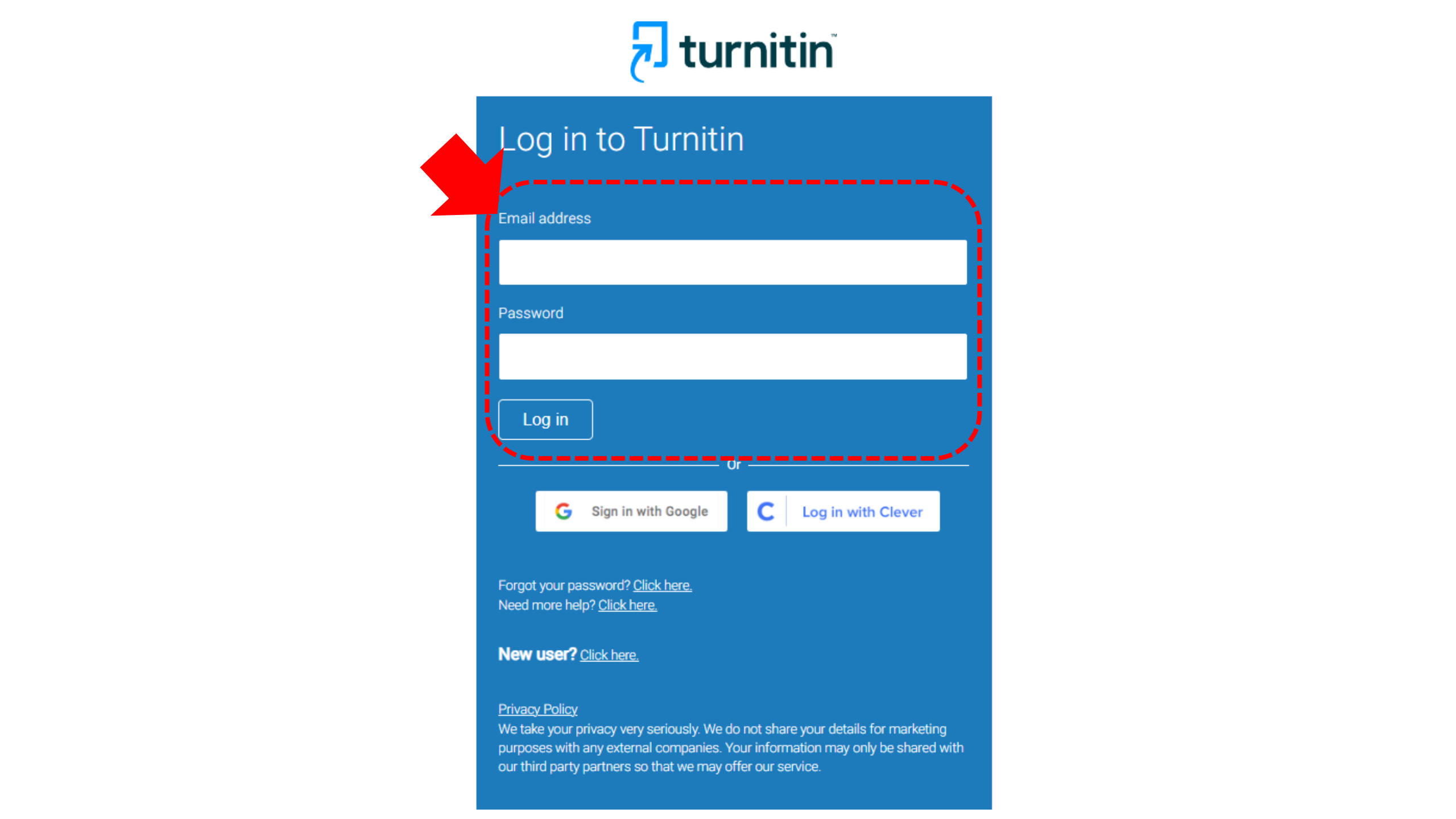
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All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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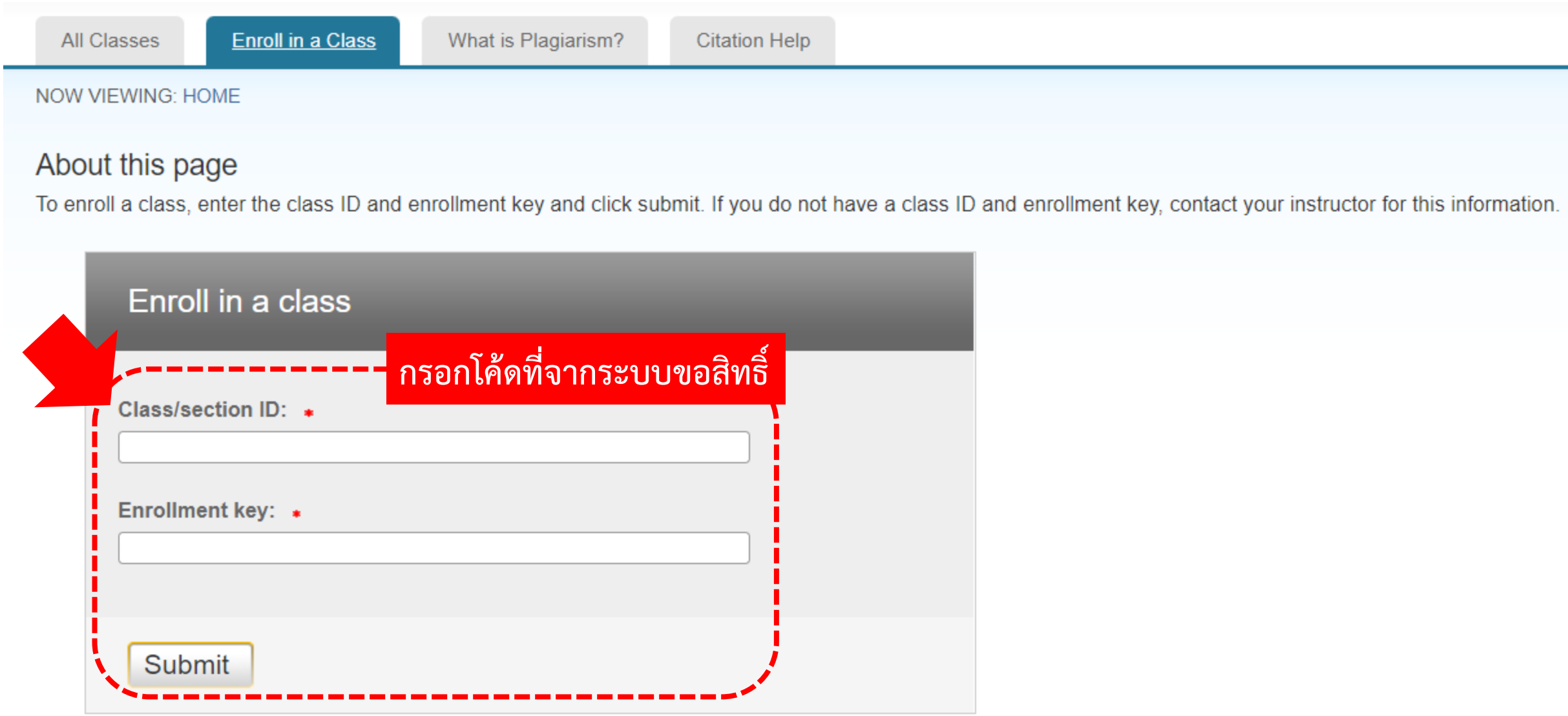
Chiang Mai University

Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
28693984	October 2021	CMU Library	Expired	15-Mar-2021	31-Oct-2021	
28694031	(CMUL) Check Plagiarism : January 2022	CMU Library	Expired	15-Mar-2021	01-Feb-2022	
28708220	(CMUL) Check Plagiarism : March 2022	CMU Library	Expired	16-Mar-2021	01-Apr-2022	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What is Plagiarism?
Citation Help
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About this page
To enroll a class, enter the class ID and enrollment key and click submit. If you do not have a class ID and enrollment key, contact your instructor for this information.
Enroll in a class
กรอกโค้ดที่จากระบบขอสิทธิ์
Class/section ID: *
Enrollment key: *
Submit

All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
32983930	(CMUL) Check Plagiarism : October 2022	CMU Library	Active	04-Jan-2022	02-Nov-2022	
28693984	October 2021	CMU Library	Expired	15-Mar-2021	31-Oct-2021	
28694031	(CMUL) Check Plagiarism : January 2022	CMU Library	Expired	15-Mar-2021	01-Feb-2022	
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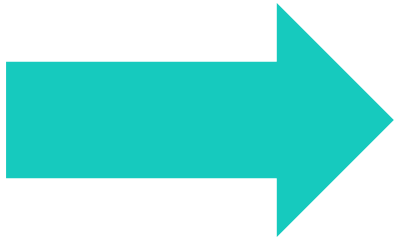
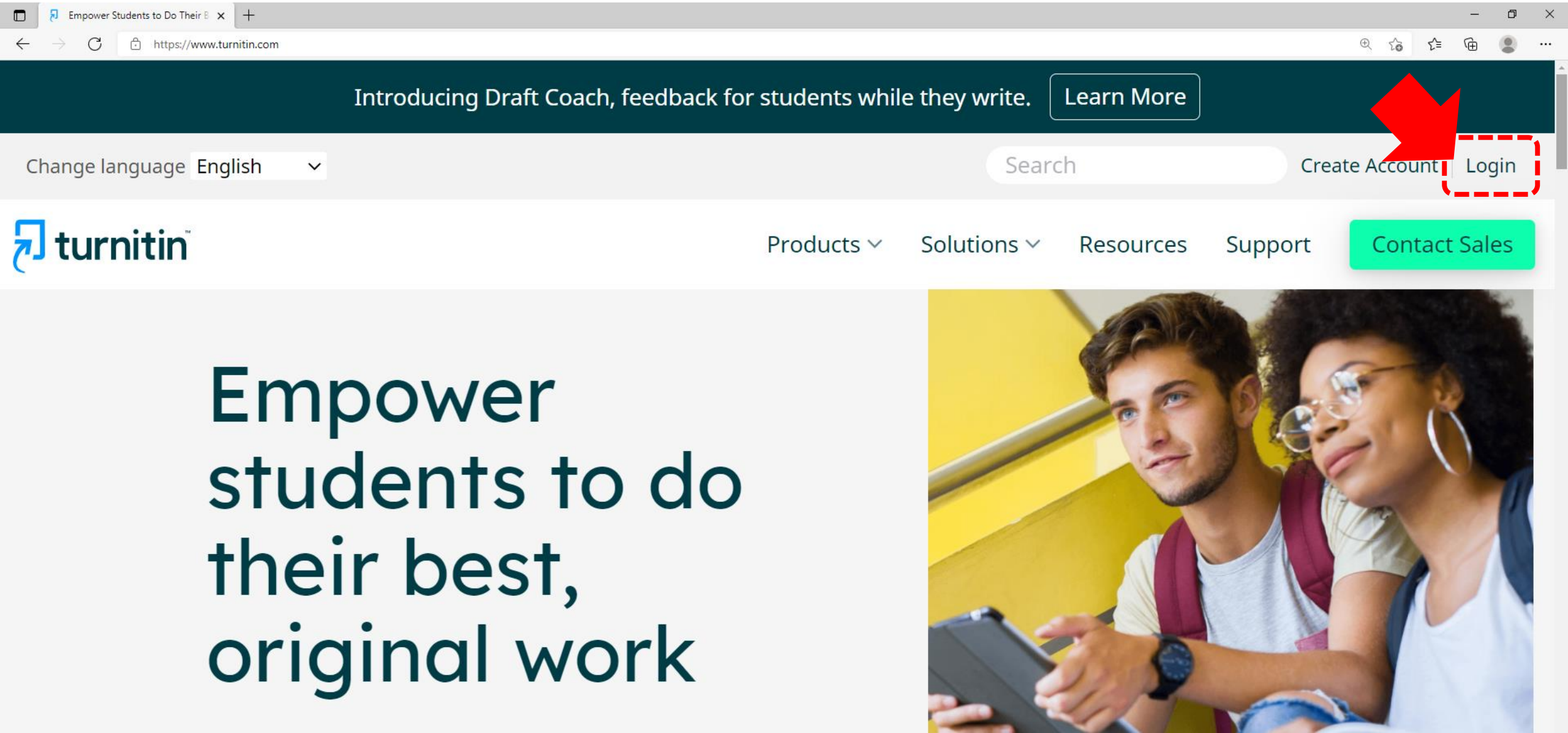
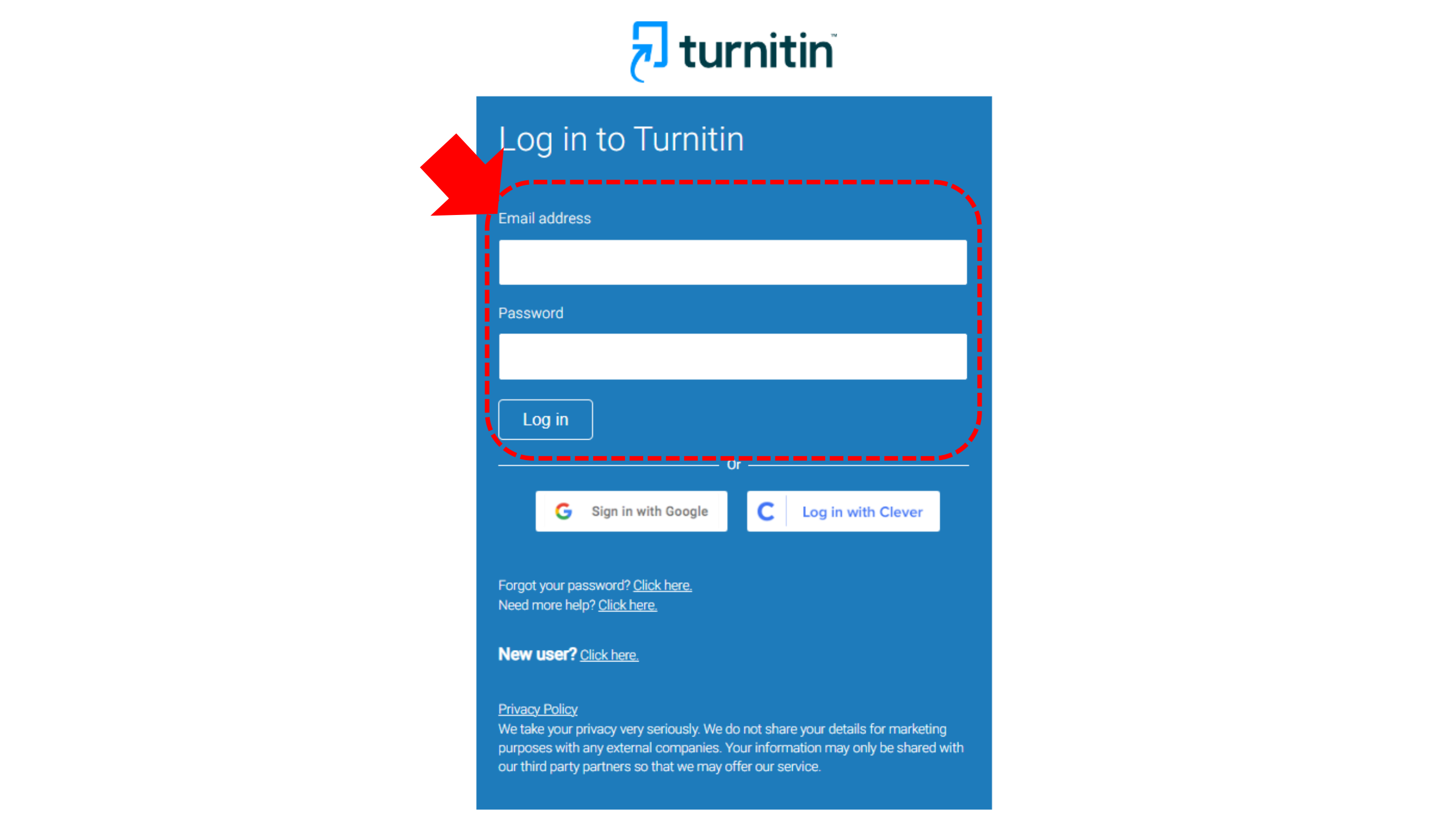
จากนั้นไปที่  การส่งเอกสารเข้าไปตรวจกับ **Turnitin**

สำหรับผู้ใช้เดิม
ที่มีบัญชี Instructor

แต่ต้องการใช้ในสถานะ Students

การเริ่มต้นใช้ Turnitin.com

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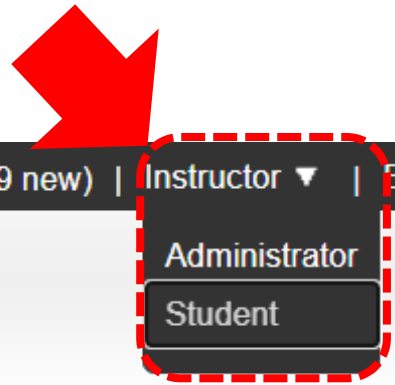

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All Classes | Join Account (TA)

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About this page

This is your instructor homepage. To create a class, click the "Add Class" button. To display a class's assignments and papers, click the class's name.

Chiang Mai University

+ Add Class

All Classes | Expired Classes | Active Classes

Class ID	Class name	Status	Start Date	End Date	Class Summary	Learning Analytics	Edit	Copy	Delete
28615472	Case study	Active	07-Mar-2021	31-Dec-2023					
32983930	(CMUL) Check Plagiarism : October 2022	Active	04-Jan-2022	02-Nov-2022					

All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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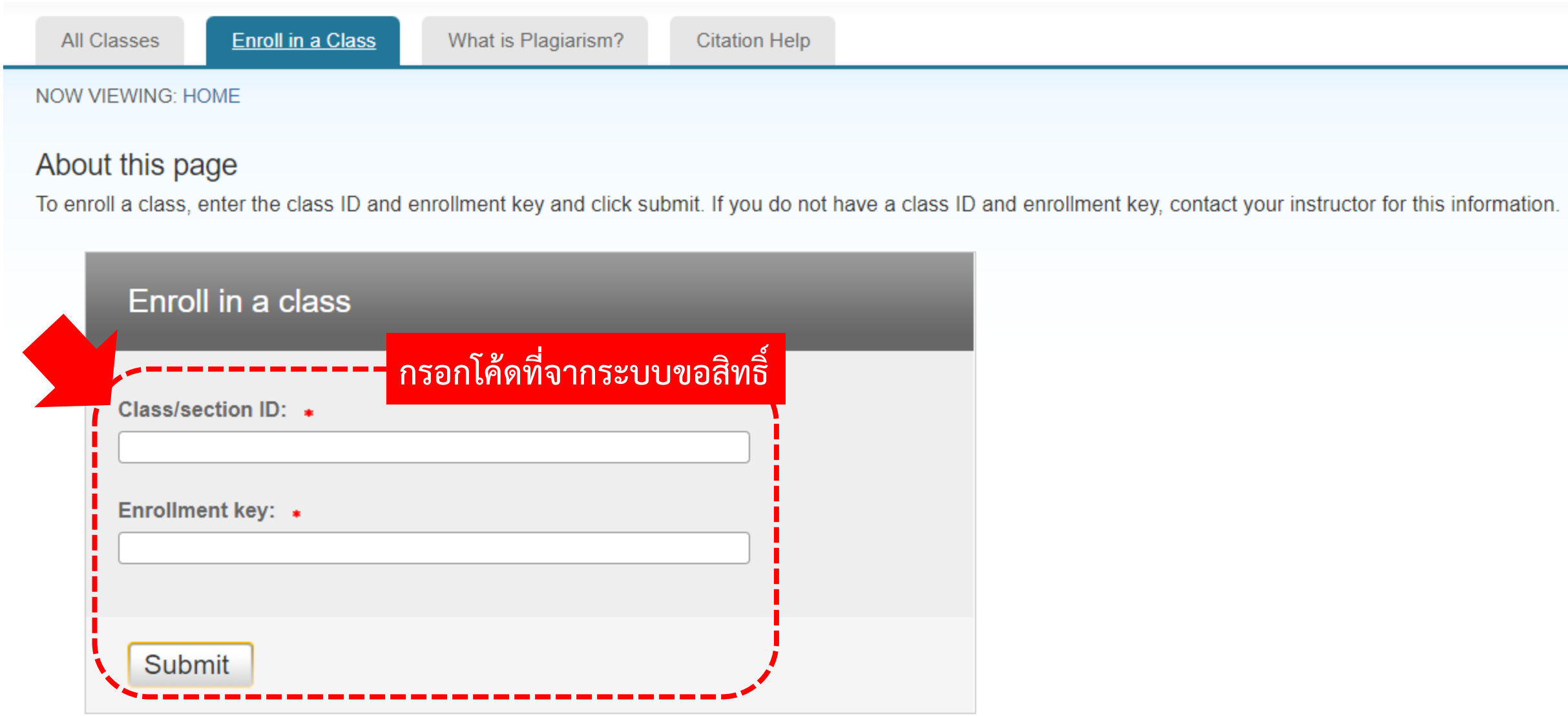
Chiang Mai University

Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
28693984	October 2021	CMU Library	Expired	15-Mar-2021	31-Oct-2021	
28694031	(CMUL) Check Plagiarism : January 2022	CMU Library	Expired	15-Mar-2021	01-Feb-2022	
28708220	(CMUL) Check Plagiarism : March 2022	CMU Library	Expired	16-Mar-2021	01-Apr-2022	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About this page
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Enroll in a class
กรอกโค้ดที่จากระบบขอสิทธิ์
Class/section ID: *
Enrollment key: *
Submit

All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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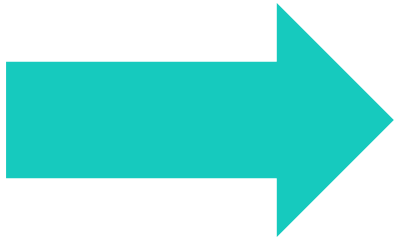
Chiang Mai University

Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
32983930	(CMUL) Check Plagiarism : October 2022	CMU Library	Active	04-Jan-2022	02-Nov-2022	
28693984	October 2021	CMU Library	Expired	15-Mar-2021	31-Oct-2021	
28694031	(CMUL) Check Plagiarism : January 2022	CMU Library	Expired	15-Mar-2021	01-Feb-2022	
28708220	(CMUL) Check Plagiarism : March 2022	CMU Library	Expired	16-Mar-2021	01-Apr-2022	

จากนั้นไปที่  การส่งเอกสารเข้าไปตรวจกับ **Turnitin**

การส่งเอกสารเข้าไปตรวจกับ Turnitin

All Classes | Enroll in a Class | What is Plagiarism? | Citation Help

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Chiang Mai University

Class ID	Class name	Instructor	Status	Start Date	End Date	Drop class
32983930	(CMUL) Check Plagiarism : October 2022	CMU Library	Active	04-Jan-2022	02-Nov-2022	
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28694031	(CMUL) Check Plagiarism : January 2022	CMU Library	Expired	15-Mar-2021	01-Feb-2022	
28708220	(CMUL) Check Plagiarism : March 2022	CMU Library	Expired	16-Mar-2021	01-Apr-2022	

Welcome to your new class homepage! From the class homepage you can see all your assignments for your class, view additional assignment information, submit your work, and access feedback for your papers.

Hover on any item in the class homepage for more information.

Class Homepage

This is your class homepage. To submit to an assignment click on the "Submit" button to the right of the assignment name. If the Submit button is grayed out, no submissions can be made to the assignment. If resubmissions are allowed the submit button will read "Resubmit" after you make your first submission to the assignment. To view the paper you have submitted, click the "View" button. Once the assignment's post date has passed, you will also be able to view the feedback left on your paper by clicking the "View" button.

Assignment Inbox: (CMUL) Check Plagiarism : October 2022

Assignment Title	Info	Dates	Similarity	Actions
File 01	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 02	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 03	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 04	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 05	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 06	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 07	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 08	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 09	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View
File 10	ⓘ	Start 01-Oct-2022 1:00AM Due 02-Nov-2022 1:00AM Post 02-Nov-2022 1:00AM		Submit View

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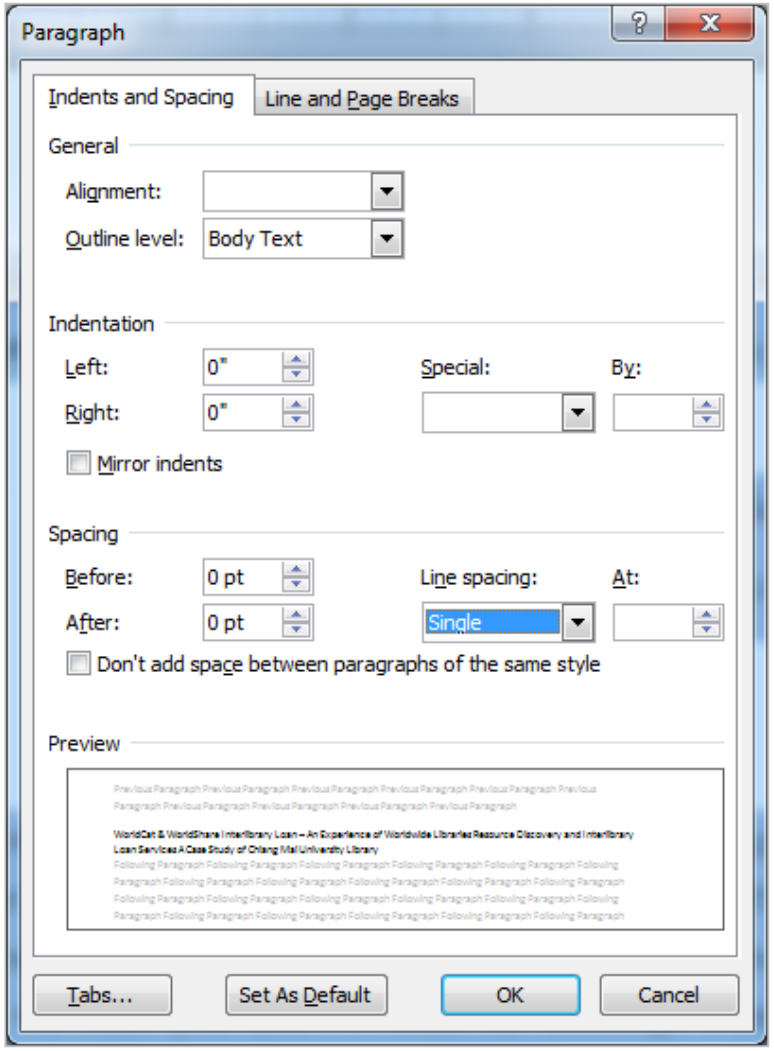

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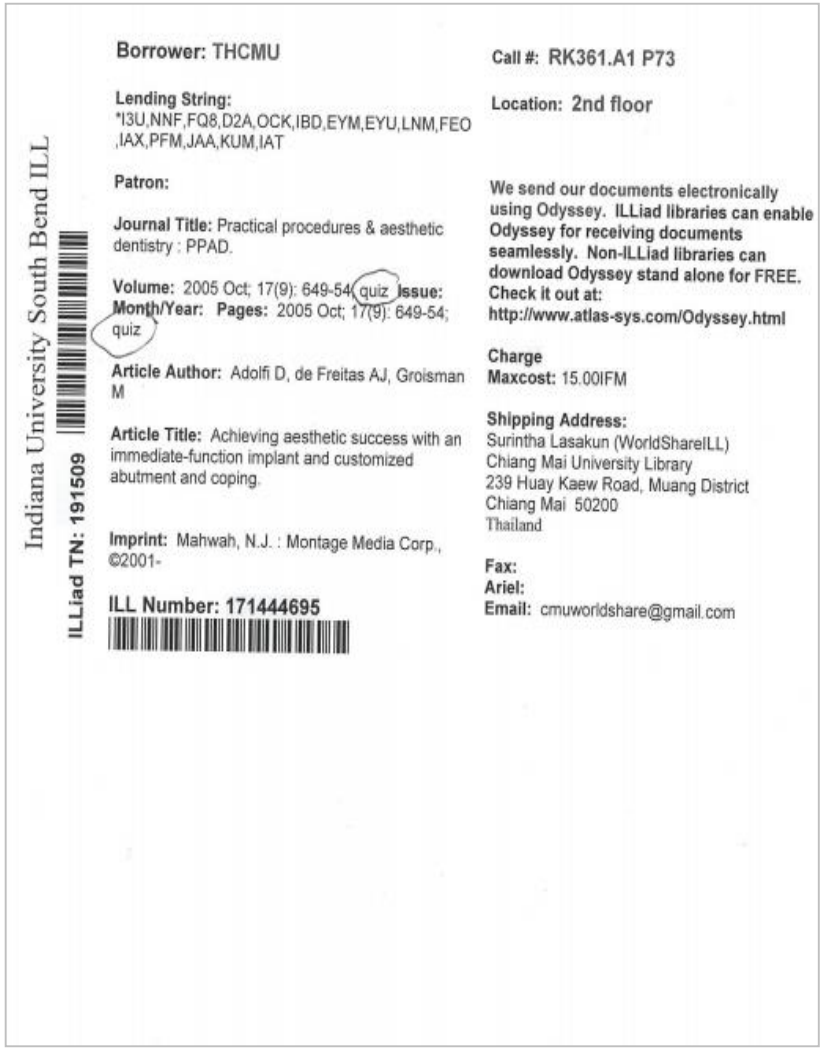
ต้องตั้งค่า Line Spacing = Single



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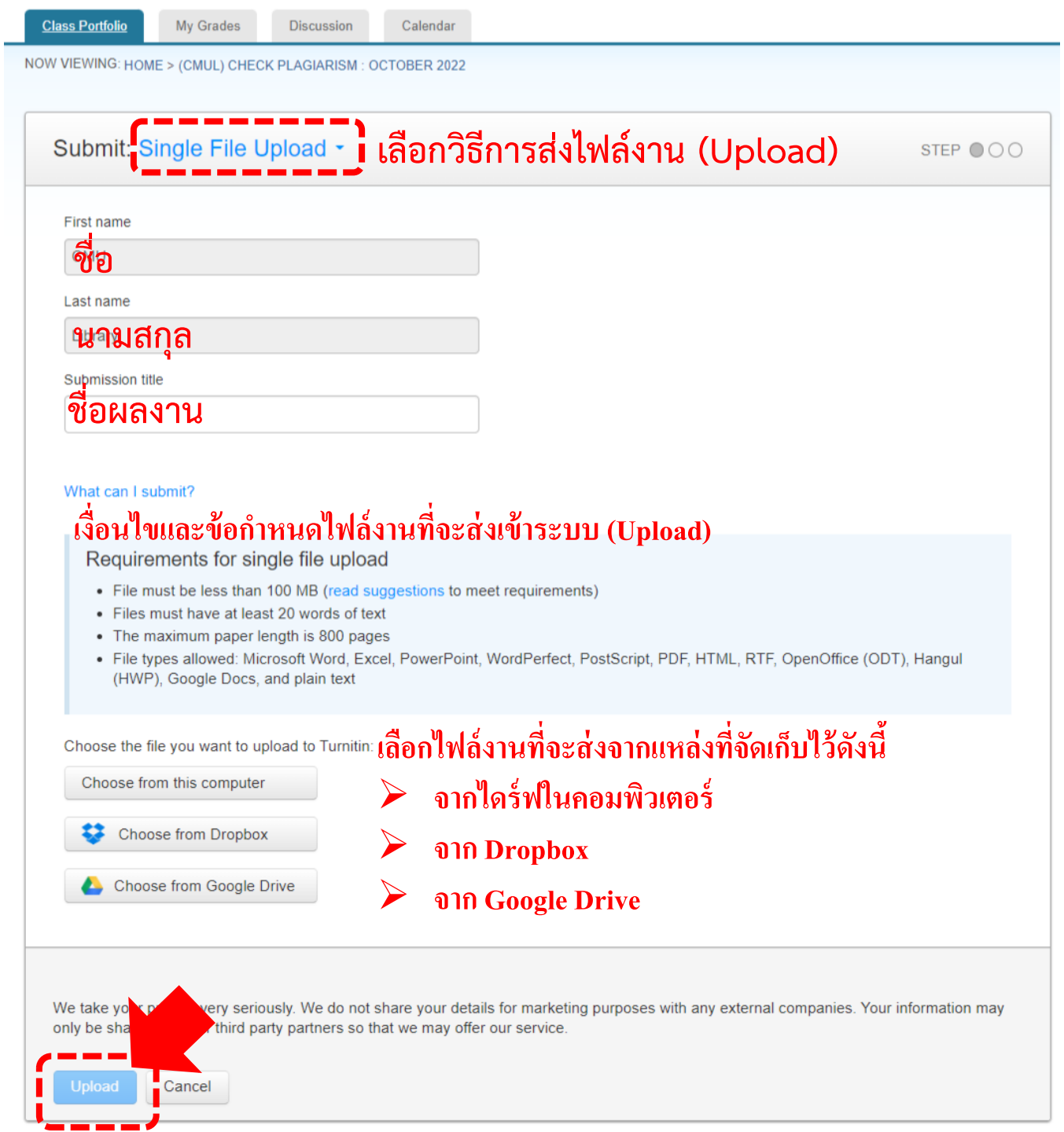
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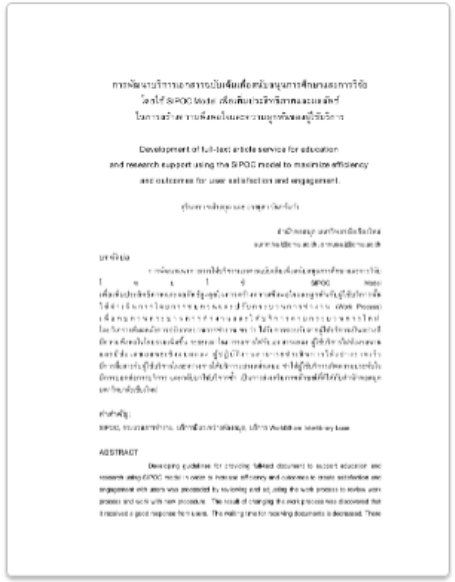

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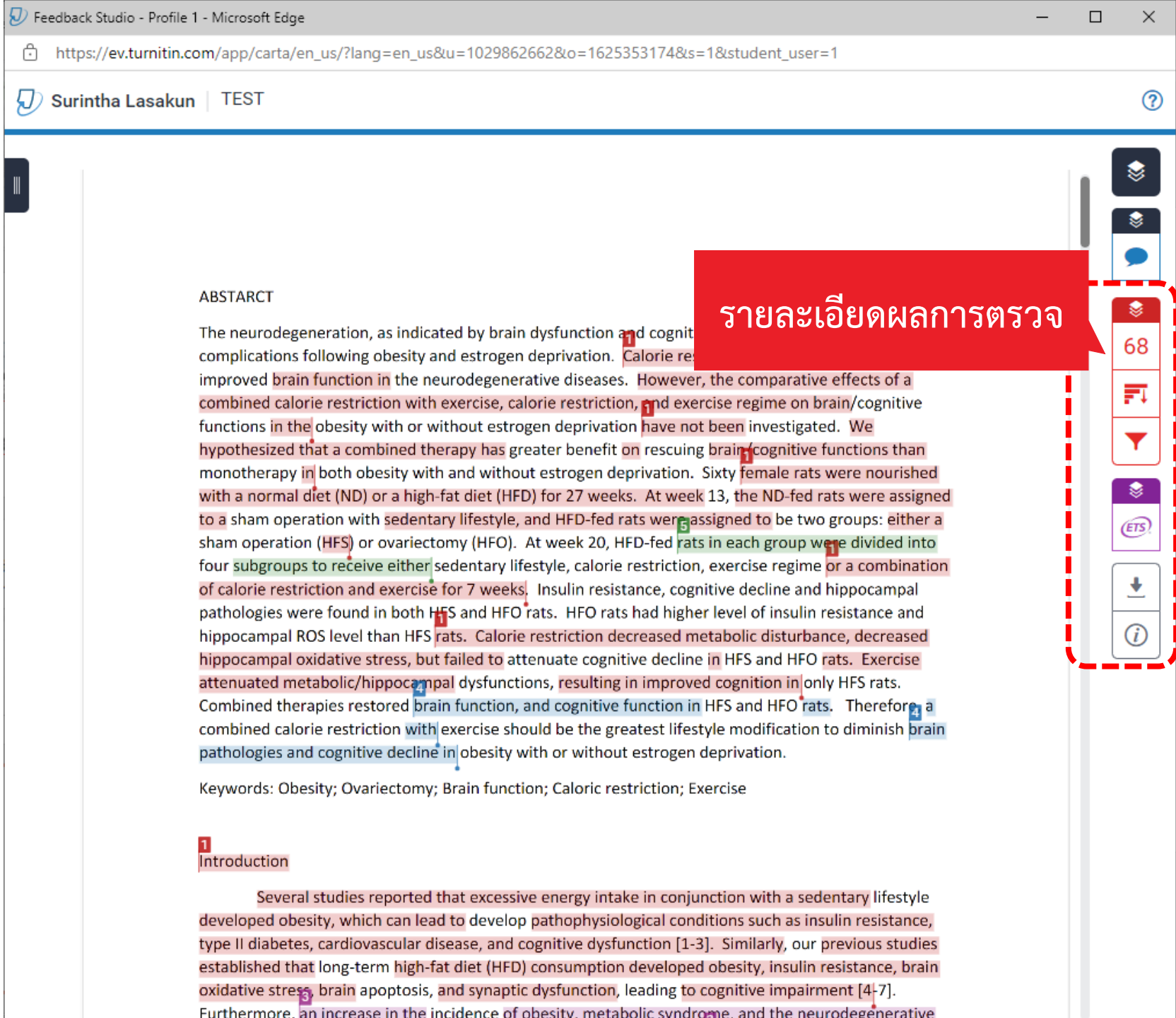

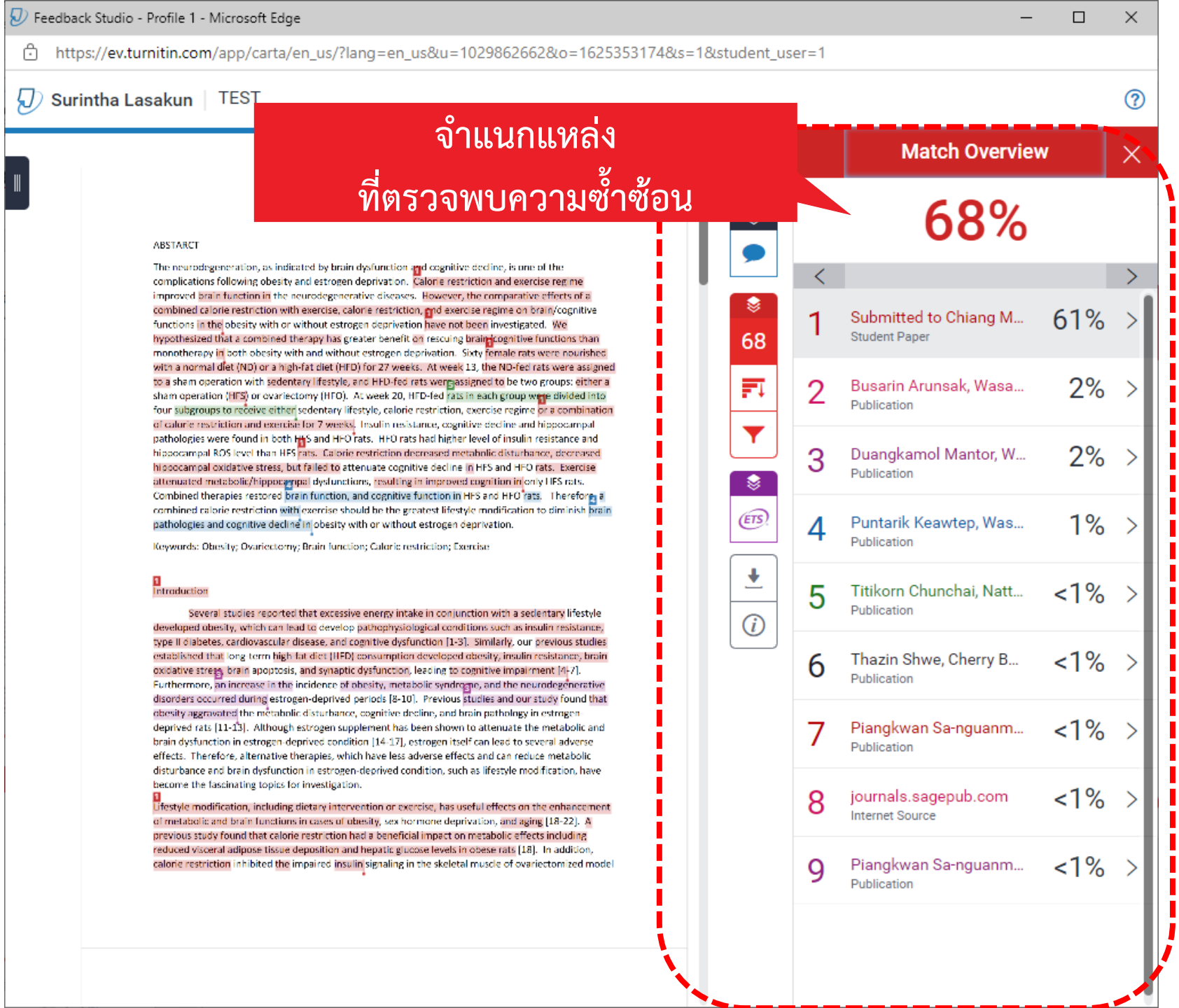
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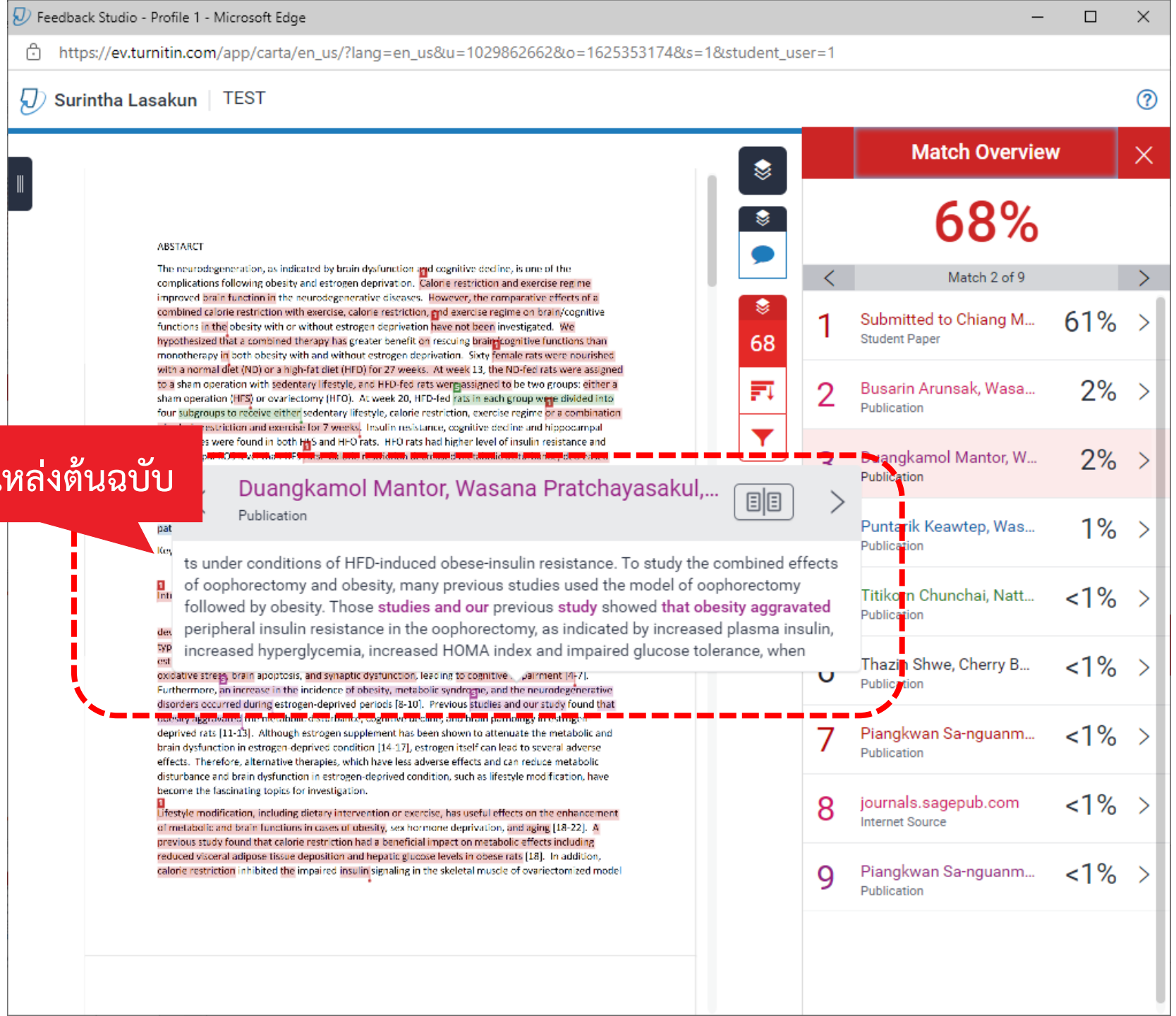
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ts under conditions of HFD-induced obese-insulin resistance. To study the combined effects of oophorectomy and obesity, many previous studies used the model of oophorectomy followed by obesity. Those studies and our previous study showed that obesity aggravated peripheral insulin resistance in the oophorectomy, as indicated by increased plasma insulin, increased hyperglycemia, increased HOMA index and impaired glucose tolerance, when
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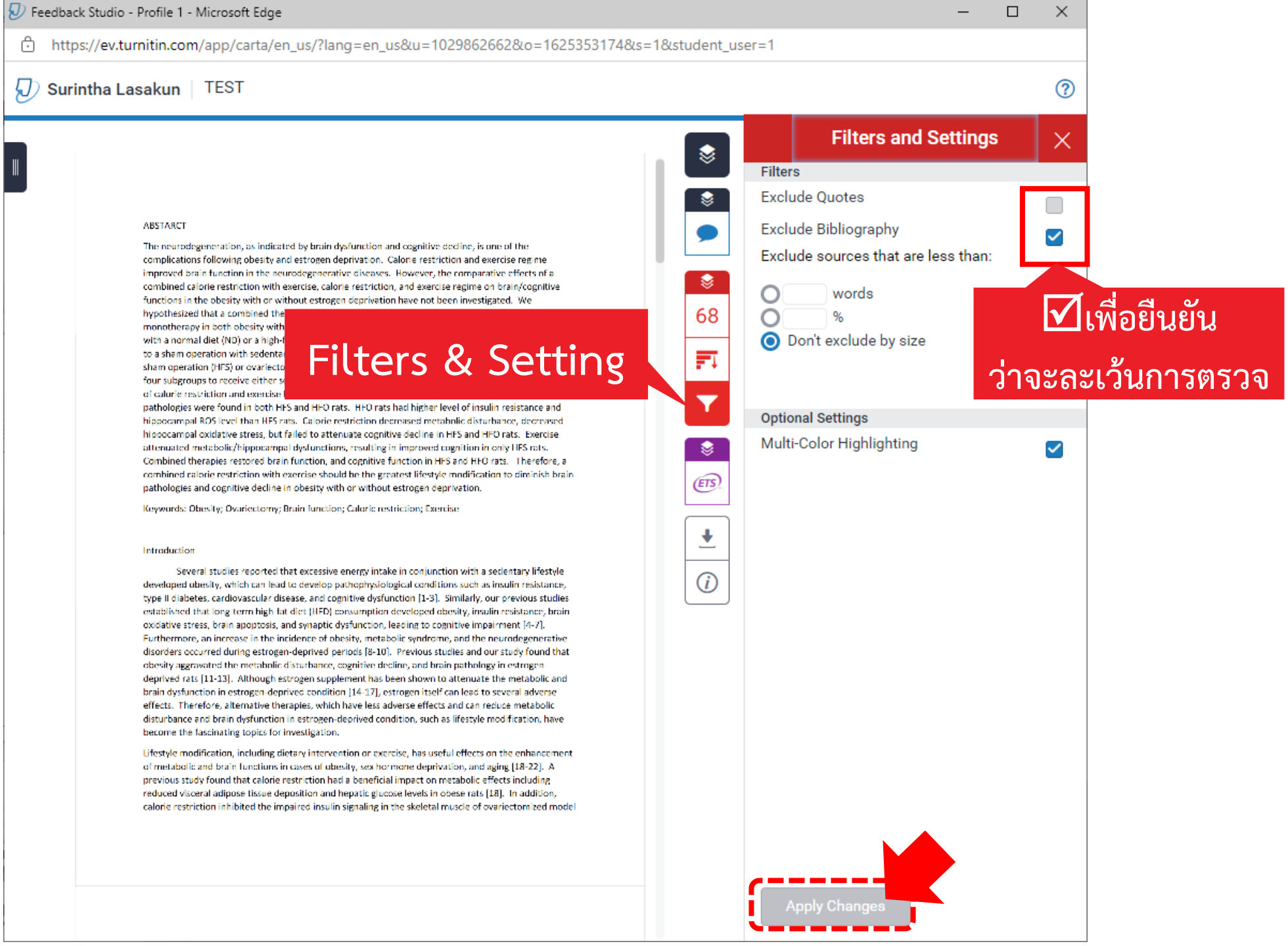
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Lifestyle modification, including dietary intervention or exercise, has useful effects on the enhancement

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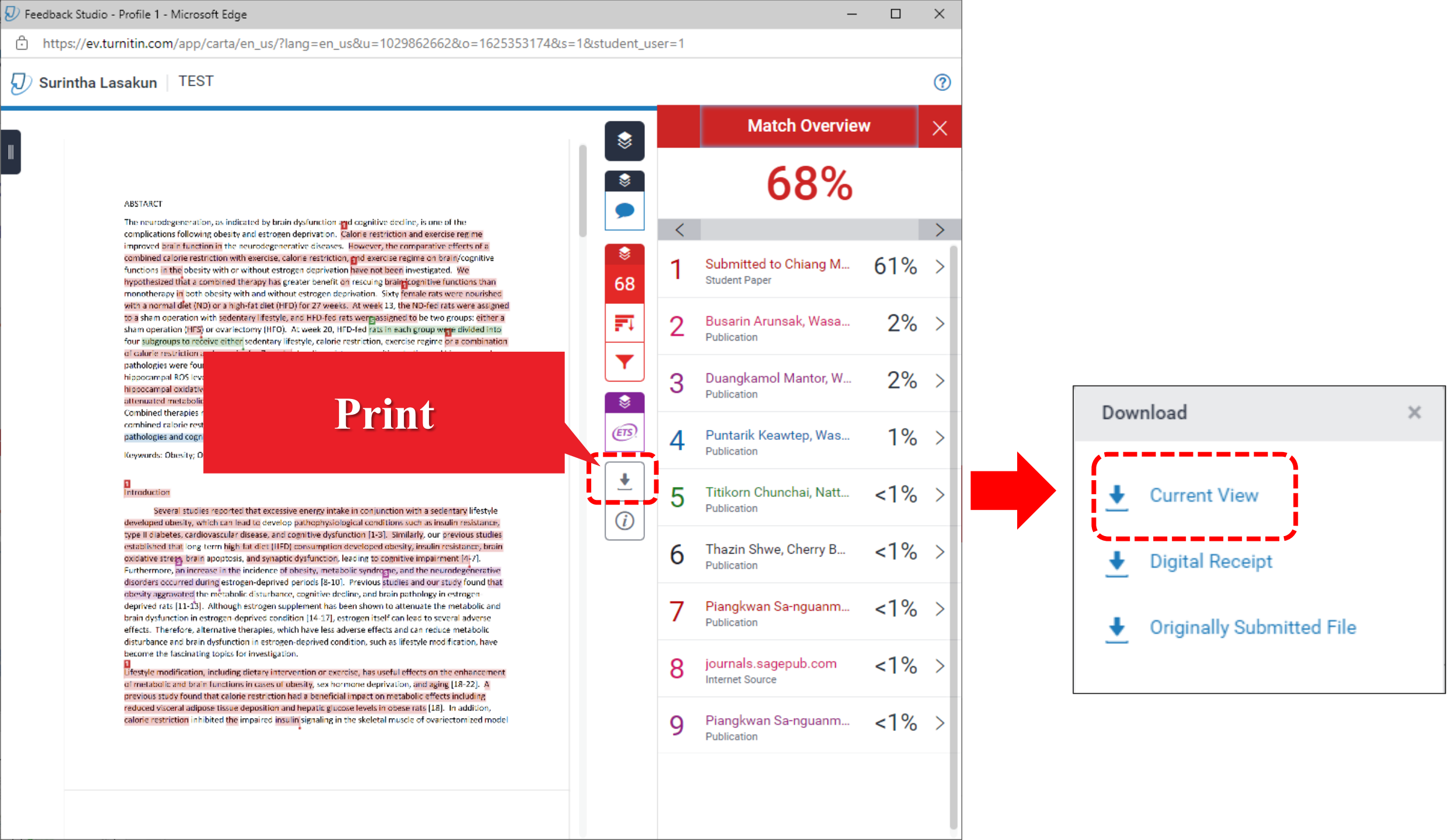
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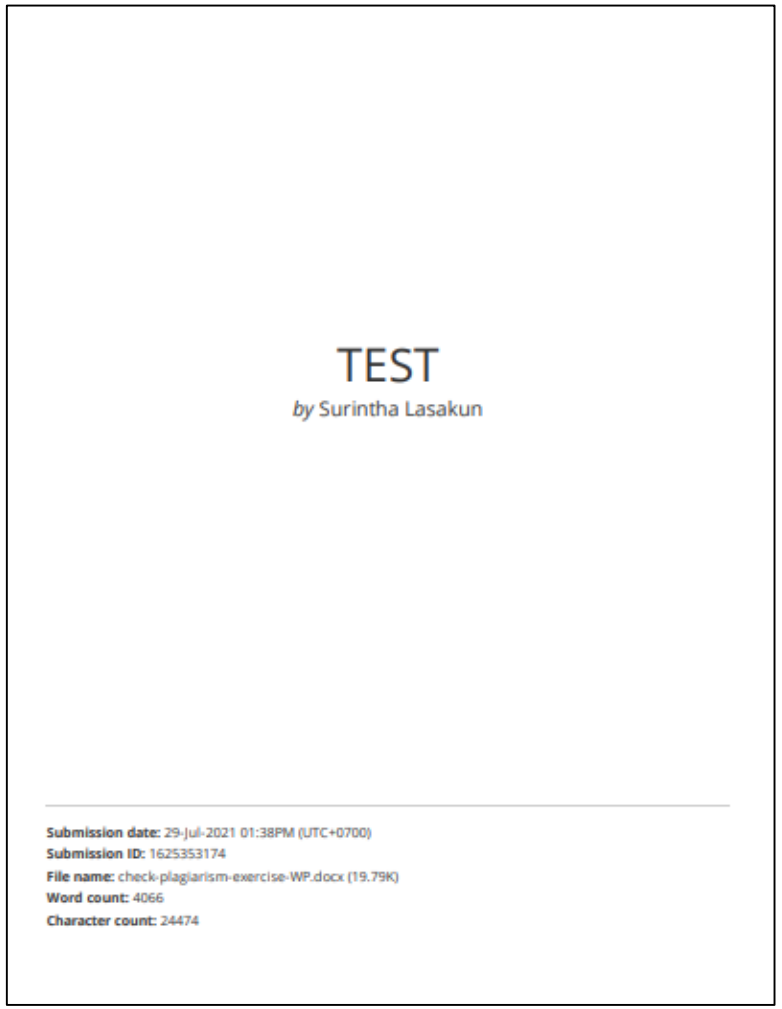

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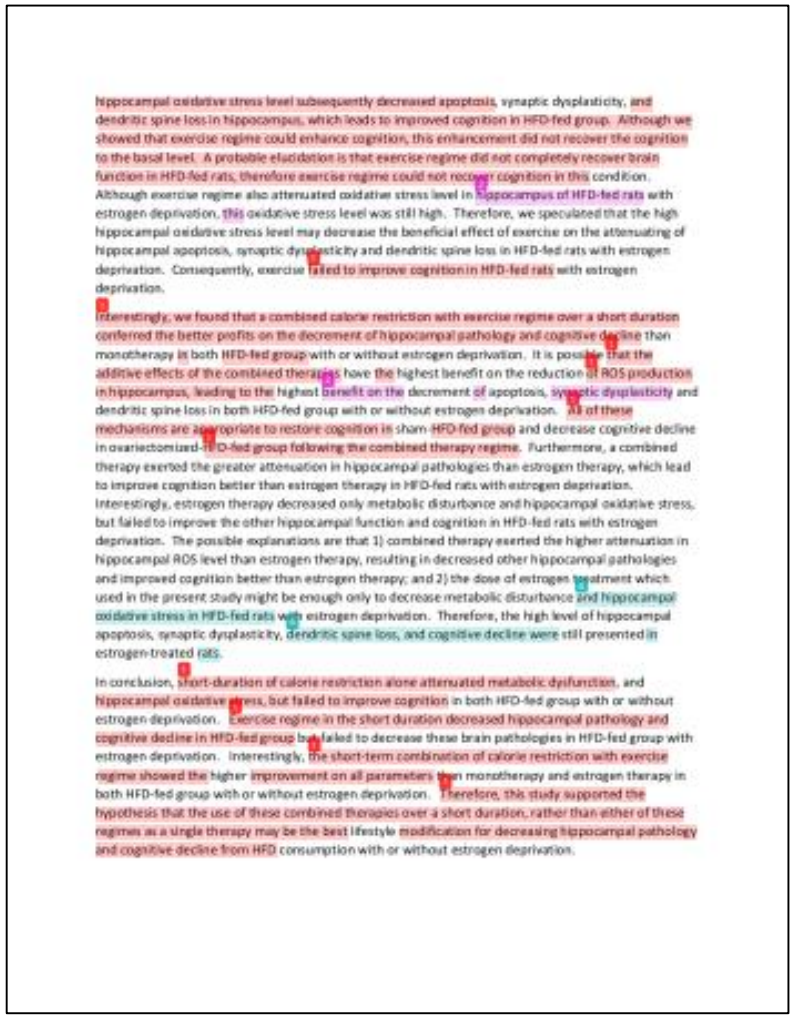
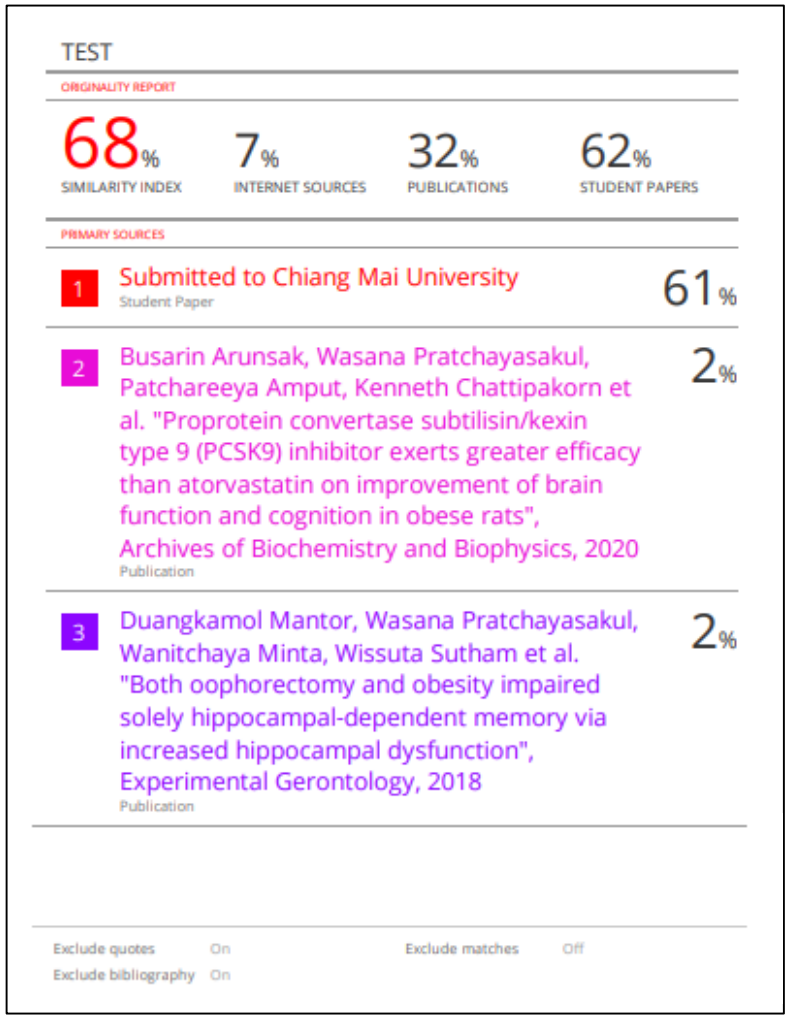


hippocampal oxidative stress level subsequently decreased apoptosis, synaptic dysplasticity, and dendritic spine loss in hippocampus, which leads to improved cognition in HFD-fed group. Although we showed that exercise regime could enhance cognition, this enhancement did not recover the cognition to the basal level. A probable elucidation is that exercise regime did not completely recover brain function in HFD-fed rats; therefore exercise regime could not recover cognition in this condition. Although exercise regime also attenuated oxidative stress level in hippocampus of HFD-fed rats with estrogen deprivation, this oxidative stress level was still high. Therefore, we speculated that the high hippocampal oxidative stress level may decrease the beneficial effect of exercise on the attenuating of hippocampal apoptosis, synaptic dysplasticity and dendritic spine loss in HFD-fed rats with estrogen deprivation. Consequently, exercise failed to improve cognition in HFD-fed rats with estrogen deprivation.

Interestingly, we found that a combined calorie restriction with exercise regime over a short duration conferred the better profits on the decrement of hippocampal pathology and cognitive decline than monotherapy in both HFD-fed group with or without estrogen deprivation. It is possible that the additive effects of the combined therapies have the highest benefit on the reduction of ROS production in hippocampus, leading to the highest benefit on the decrement of apoptosis, synaptic dysplasticity and dendritic spine loss in both HFD-fed group with or without estrogen deprivation. All of these mechanisms are appropriate to restore cognition in sham-HFD-fed group and decrease cognitive decline in ovariectomized-HFD-fed group following the combined therapy regime. Furthermore, a combined therapy exerted the greater attenuation in hippocampal pathologies than estrogen therapy, which lead to improve cognition better than estrogen therapy in HFD-fed rats with estrogen deprivation. Interestingly, estrogen therapy decreased only metabolic disturbance and hippocampal oxidative stress, but failed to improve the other hippocampal function and cognition in HFD-fed rats with estrogen deprivation. The possible explanations are that 1) combined therapy exerted the higher attenuation in hippocampal ROS level than estrogen therapy, resulting in decreased other hippocampal pathologies and improved cognition better than estrogen therapy; and 2) the dose of estrogen treatment which used in the present study might be enough only to decrease metabolic disturbance and hippocampal oxidative stress in HFD-fed rats with estrogen deprivation. Therefore, the high level of hippocampal apoptosis, synaptic dysplasticity, dendritic spine loss, and cognitive decline were still presented in estrogen-treated rats.

In conclusion, short-duration of calorie restriction alone attenuated metabolic dysfunction, and hippocampal oxidative stress, but failed to improve cognition in both HFD-fed group with or without estrogen deprivation. Exercise regime in the short duration decreased hippocampal pathology and cognitive decline in HFD-fed group but failed to decrease these brain pathologies in HFD-fed group with estrogen deprivation. Interestingly, the short-term combination of calorie restriction with exercise regime showed the higher improvement on all parameters than monotherapy and estrogen therapy in both HFD-fed group with or without estrogen deprivation. Therefore, this study supported the hypothesis that the use of these combined therapies over a short duration, rather than either of these regimes as a single therapy may be the best lifestyle modification for decreasing hippocampal pathology and cognitive decline from HFD consumption with or without estrogen deprivation.



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ABSTARCT

The neurodegeneration, as indicated by brain dysfunction and cognitive decline, is one of the complications following obesity and estrogen deprivation. Calorie restriction and exercise regime improved brain function in the neurodegenerative diseases. However, the comparative effects of a combined calorie restriction with exercise, calorie restriction, and exercise regime on brain/cognitive functions in the obesity with or without estrogen deprivation have not been investigated. We hypothesized that a combined therapy has greater benefit on rescuing brain/cognitive functions than monotherapy in both obesity with and without estrogen deprivation. Sixty female rats were nourished with a normal diet (ND) or a high-fat diet (HFD) for 27 weeks. At week 13, the ND-fed rats were assigned to a sham operation with sedentary lifestyle, and HFD-fed rats were assigned to be two groups: either a sham operation (HFS) or ovariectomy (HFO). At week 20, HFD-fed rats in each group were divided into four subgroups to receive either sedentary lifestyle, calorie restriction, exercise regime or a combination of calorie restriction and exercise for 7 weeks. Insulin resistance, cognitive decline and hippocampal pathologies were found in both HFS and HFO rats. HFO rats had higher level of insulin resistance and hippocampal ROS level than HFS rats. Calorie restriction decreased metabolic disturbance, decreased hippocampal oxidative stress, but failed to attenuate cognitive decline in HFS and HFO rats. Exercise attenuated metabolic/hippocampal dysfunctions, resulting
Combined therapies restored brain function, and cognitive
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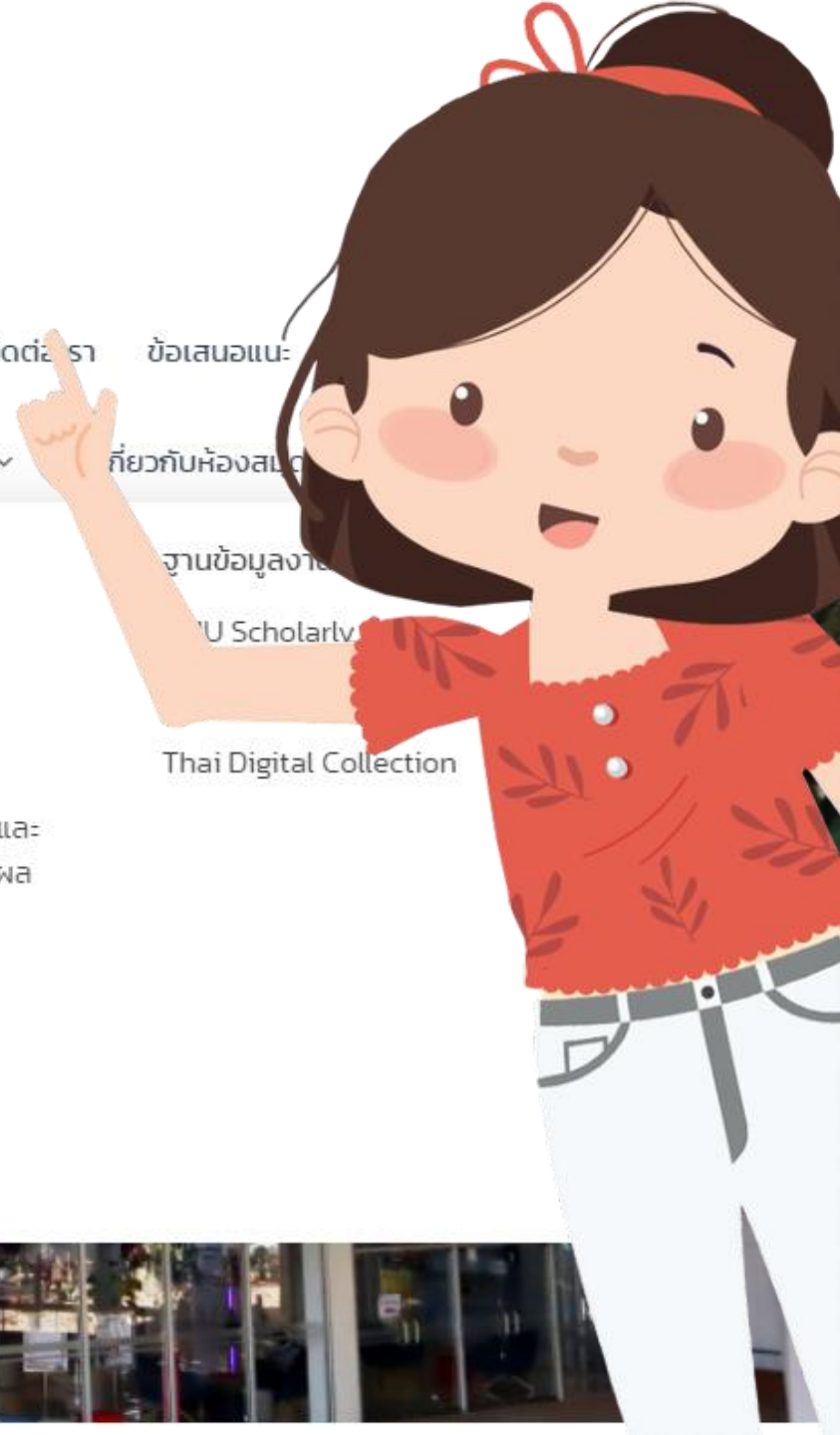

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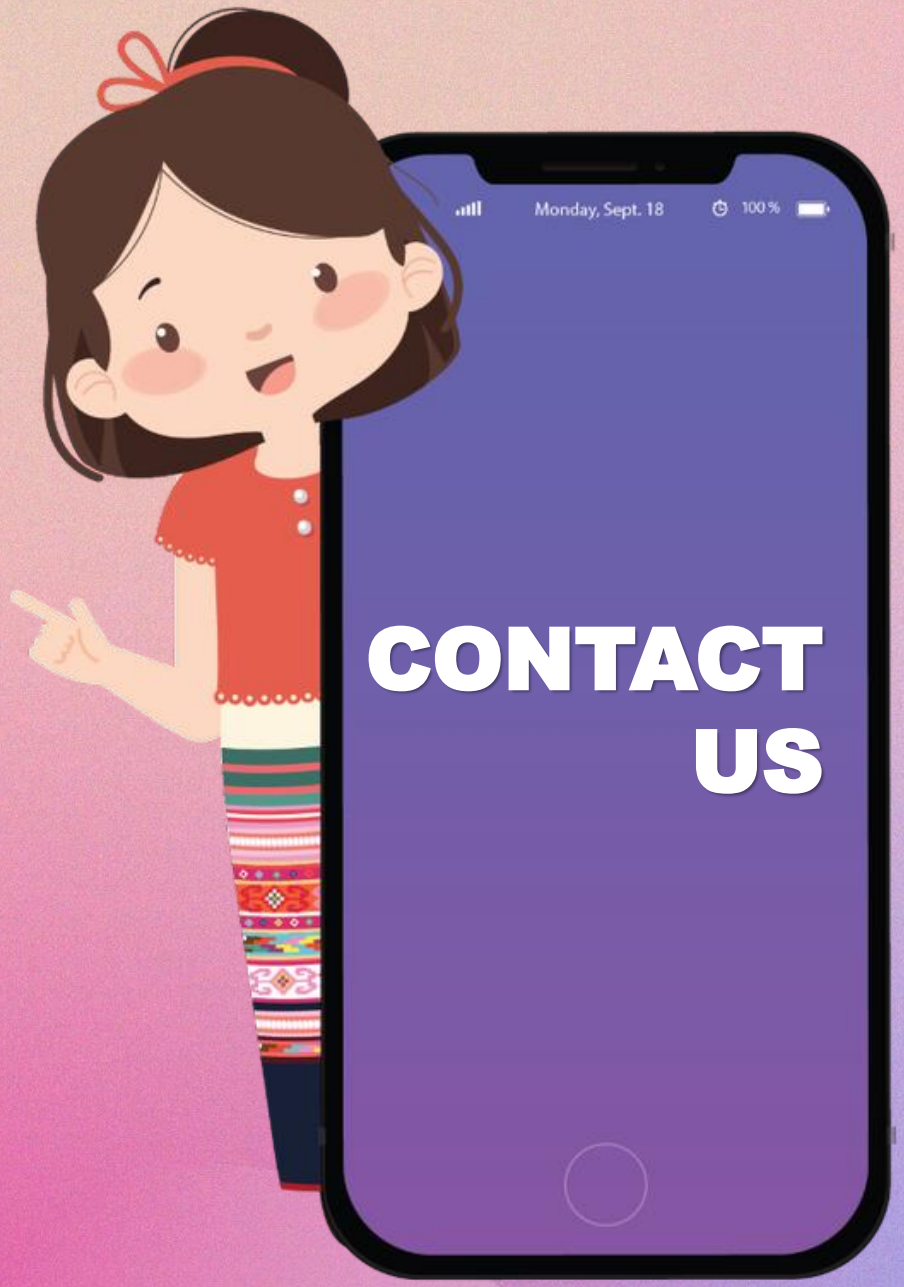

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