



Development Information System Teaching Assistant (SISTEN) Institute of Technology Del

Kelompok 06 PSI 2021

Background



Institutions or campuses are an optional level of education informal education. Generally, students are referred to as students and educators as lecturers. However, in some conditions, the teaching and learning process is carried out by students formally. This activity can occur when the lecturer needs an assistant to help the teaching process, the assistant is a student who meets certain criteria set by the lecturer concerned. This activity is indeed common in universities.

Currently, several institutions or campuses carry out these activities manually, starting from the recruitment process, selection, announcement of accepted teaching assistants, reporting activities, and submitting and processing other information. This can cause problems in data processing such as human errors, difficulties in accessing data, and some problems with information transparency.

Therefore, as a solution, there has been a web-based Lecturer Assistant Information System (SISTEN). Personalized by users which include students, TA, BAAK, and Lecturers as needed. As recruitment becomes easier, information is more transparent and data can be accessed according to the provisions of the role, the activity data of the teaching assistants are accumulated properly and will certainly minimize human error.

Purpose



1. As a recruitment media for TA.

Supported by Vacancy and Vacancies Management features.

2. As a media for managing information on TA activities.

Supported by the TA Report and Schedule features.

Scope



The scope of work of this system is the development of Teaching Assistant Information Systems

Main Functional



1. Manage courses
2. Manage schedules
3. Manage user activity
4. Manage profiles
5. Manage vacancies
6. Manage job applicants
7. Manage activity reports

Non-Functional Requirement



Ergonomy

Security

Accessibility



Design View



Register And Login View



Sistem Informasi Asisten Dosen

Login Form



Registration Form

First Name

Middle Name

Last Name

Username

Email

Study Program

Batch

Reg. Number (NIM/NIDN)

Bank Name

Account Number

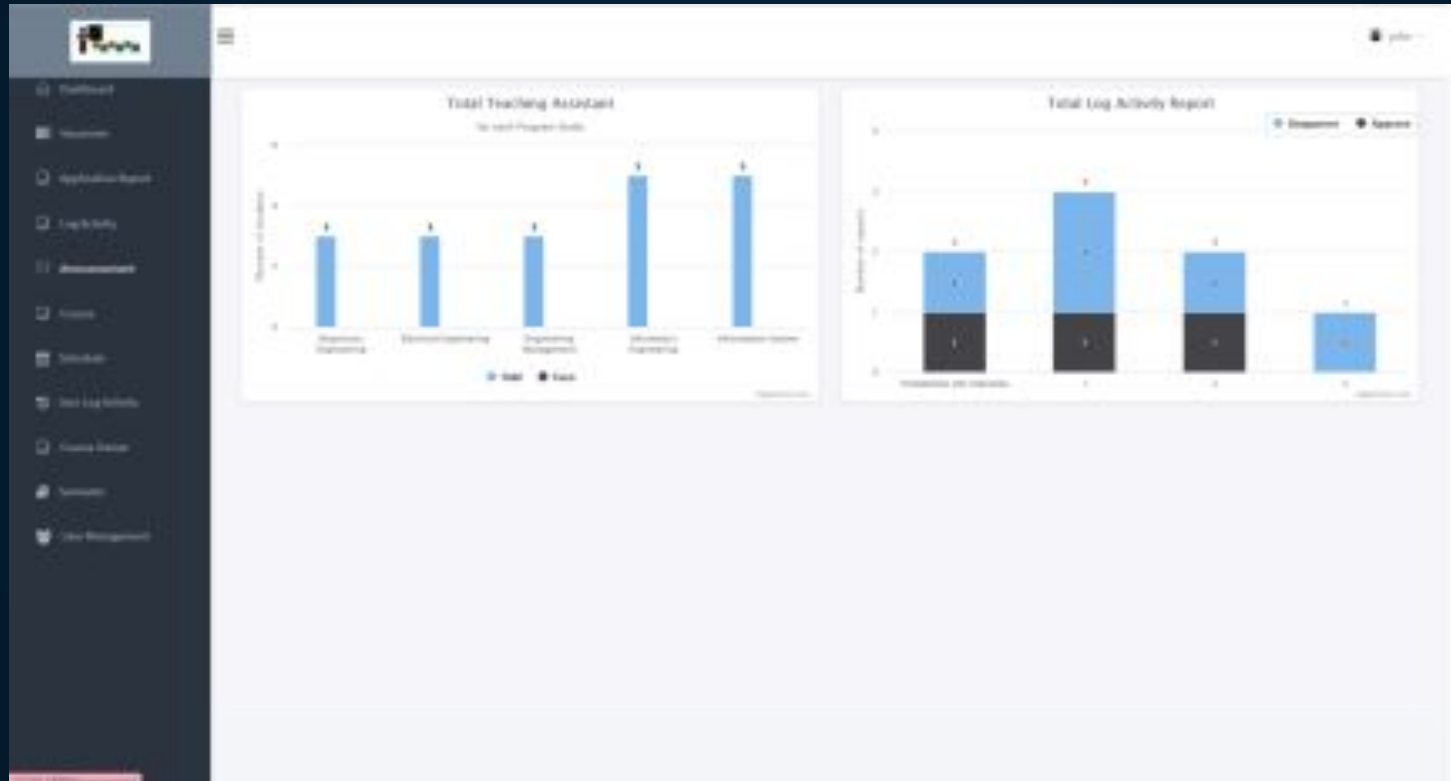
Phone Number

Password

Password Confirmation


Already have account? [Login here!](#)

Dashboard view



Announcement view





Dashboard

Vacancies

Application Report

Log Activity

Announcement

Course

Schedule

User Log Activity

Course Owner

Semester

User Management



List of Announcement


Export PDF


Student Name	Course Code	Course	Class
Christopher Alfred Hutabarat	MAS2001	Probabilitas dan Statistika	13SI1
Raja Muda Gading Tulen Sihite	MAS2001	Probabilitas dan Statistika	13SI1
Sarah Hillary Siahaan	MAS2001	Probabilitas dan Statistika	13SI2
Rifka Uli Siregar	MAS2001	Probabilitas dan Statistika	13SI2
Wiranda Megawati Siahaan	MAS2001	Probabilitas dan Statistika	13TI1
Della Cenovita Tarigan	MAS2001	Probabilitas dan Statistika	13TI1
Ulion Alberto Perkasa Pardede	MAS2001	Probabilitas dan Statistika	13TI2
Yohanes Ray Febriyanto Silitonga	MAS2001	Probabilitas dan Statistika	13TI2
Surya Ferary Nainggolan	MAS2001	Probabilitas dan Statistika	13TI2
Imam Aprido Simarmata	MAS2001	Probabilitas dan Statistika	13TI2
Devi Wahyuuni Silitonga	MAS2001	Probabilitas dan Statistika	13MR2
Auro Daniel Ersi Silalahi	MAS2001	Probabilitas dan Statistika	13MR2
Irvandi Amir Hamzah Sihombing	MAS2001	Probabilitas dan Statistika	13BP1
Manarís Gerald Silaban	MAS2001	Probabilitas dan Statistika	13BP1
Grace Manzoya Tampubolon	MAS2001	Probabilitas dan Statistika	13TE1
Yessi Annaria Naibaho	MAS2001	Probabilitas dan Statistika	13TE1
Kevin Gerald Sitanggang	MAS2001	Probabilitas dan Statistika	13TE2
Rio Frans Hegen Hutasoit	MAS2001	Probabilitas dan Statistika	13TE2


Courses view








 Dashboard


 Vacancies


 Application Report


 Log Activity


 Announcement


 Course

 Schedule

 User Log Activity

 Course Owner


 Semester

 User Management

List of Courses

Export Excel

Export PDF

































Show

25

 entries


Search Your Data


No	Code	Initial	Class	Name	Academic Year	Credit	Course Owner	Action
1	MAS2001	PROBSTAT	13SI1	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
2	MAS2001	PROBSTAT	13SI2	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
3	MAS2001	PROBSTAT	13TI1	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
4	MAS2001	PROBSTAT	13TI2	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
5	MAS2001	PROBSTAT	13MR1	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
6	MAS2001	PROBSTAT	13MR2	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
7	MAS2001	PROBSTAT	13BP1	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
8	MAS2001	PROBSTAT	13TE1	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
9	MAS2001	PROBSTAT	13TE2	Probabilitas dan Statistika	2020/2021	3	DEL-2019	<div><div>+</div><div></div><div></div></div>
10	11S1213	IMK	13SI1	Interaksi Manusia Komputer	2020/2021	3	S1SI-2019	<div><div>+</div><div></div><div></div></div>
11	11S1213	IMK	13SI2	Interaksi Manusia Komputer	2020/2021	3	S1SI-2019	<div><div>+</div><div></div><div></div></div>
12	11S1213	IMK	13TI1	Interaksi Manusia Komputer	2020/2021	3	S1SI-2019	<div><div>+</div><div></div><div></div></div>
13	11S1213	IMK	13TI2	Interaksi Manusia Komputer	2020/2021	3	S1SI-2019	<div><div>+</div><div></div><div></div></div>
14	MAS1101	MADAS I	13SI1	Matematika Dasar I	2020/2021	4	DEL-2019	<div><div>+</div><div></div><div></div></div>
15	MAS1101	MADAS I	13SI2	Matematika Dasar I	2020/2021	4	DEL-2019	<div><div>+</div><div></div><div></div></div>
16	MAS1101	MADAS I	13TI1	Matematika Dasar I	2020/2021	4	DEL-2019	<div><div>+</div><div></div><div></div></div>

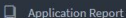
yoke


Schedule view

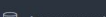



 Dashboard


 Vacancies


 Application Report


 Log Activity


 Announcement

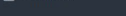
 Course

 Schedule

 User Log Activity

 Course Owner

 Semester

 User Management

List of Schedules

Export Excel



Export PDF


Search Your Data


No	Course Initial	Class	Academic Year	Week	Duration	Activity Type	Date Time	TA Initial	Action
1	PROBSTAT	13TE2	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 08:00	Kevin001, Rio001,	<div><div></div><div></div></div>
2	PROBSTAT	13TI2	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 10:00	Ulion001, Yohanes001, Surya001, Imam001,	<div><div></div><div></div></div>
3	PROBSTAT	13MR2	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 13:00	Devi001, Auro001,	<div><div></div><div></div></div>
4	PROBSTAT	13TI1	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 10:00	Wiranda001, Della001,	<div><div></div><div></div></div>
5	PROBSTAT	13BP1	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 15:00	Invandi001, Manaris001,	<div><div></div><div></div></div>
6	PROBSTAT	13SI2	2020/2021	3	2 Hour	Practicum	Tuesday, 04 May 2021 10:00	Sarah001, Rifka001,	<div><div></div><div></div></div>
7	PROBSTAT	13TE1	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 08:00	Grace001, Yessi001,	<div><div></div><div></div></div>
8	PROBSTAT	13SI1	2020/2021	3	2 Hour	Practicum	Tuesday, 04 May 2021 10:00	Christopher001, Raja001,	<div><div></div><div></div></div>
9	PROBSTAT	13MR1	2020/2021	3	2 Hour	Practicum	Saturday, 01 May 2021 13:00		<div><div></div><div></div></div>
10	PROBSTAT	13TE1	2020/2021	2	2 Hour	Practicum	Saturday, 24 April 2021 08:00	Grace001, Yessi001,	<div><div></div><div></div></div>
11	PROBSTAT	13BP1	2020/2021	2	2 Hour	Practicum	Saturday, 24 April 2021 15:00	Invandi001, Manaris001,	<div><div></div><div></div></div>
12	PROBSTAT	13MR2	2020/2021	2	2 Hour	Practicum	Saturday, 24 April 2021 13:00	Devi001, Auro001,	<div><div></div><div></div></div>


Vacancy Management View








 Dashboard

 Vacancy Management

 Application Report




























 Log Activity

 Course

 Schedule

Show 10 entries

Search Your Data

No	Course Initial	Semester	Minimum Batch	Deadline	Minimum Grade	Action
4	ALJALI	even	2019	2021-07-07	A	  
6	ADS	even	2019	2021-07-13	AB	  
7	PBO	even	2019	2021-02-11	B	  
9	PSI	even	2019	2021-07-17	AB	  
1	PROBSTAT	odd	2019	2021-07-10	A	  
2	IMK	odd	2019	2021-07-11	AB	  
3	BASDAT	odd	2019	2021-02-08	AB	  
5	SISOP	odd	2019	2021-02-10	AB	  
8	PPW	odd	2018	2021-02-12	A	  

Showing 1 to 9 of 9 entries

First

Previous

1



Next

Last


127.0.0.1:8000/vacancymanagement/7/edit

Application Report View











[Dashboard](#)
[Vacancy Management](#)
[Application Report](#)
[Log Activity](#)
[Course](#)
[Schedule](#)

 mario ✓

Application Report

Show entries



Course	Student Name	Score	Send Date	Batch	Study Program	Action
PSI	Wiranda	A	2021-05-31 16:24:44	2018	Information System	 
PSI	Wiranda	A	2021-05-31 16:24:44	2018	Information System	Approved
BASDAT	Paulus	A	2021-05-31 16:34:11	2018	Information System	 
BASDAT	Paulus	A	2021-05-31 16:34:12	2018	Information System	 
PROBSTAT	Christopher	AB	2021-05-31 16:12:56	2018	Information System	Approved
PROBSTAT	Raja	AB	2021-05-31 16:12:56	2018	Information System	Approved
IMK	Rifka	AB	2021-05-31 16:12:56	2018	Information System	Approved
IMK	Sarah	AB	2021-05-31 16:12:56	2018	Information System	Approved
BASDAT	Wiranda	AB	2021-05-31 16:12:56	2018	Information System	Approved
ALJALI	Della	AB	2021-05-31 16:12:56	2018	Information System	Approved


Showing 1 to 10 of 16 entries



[First](#) [Previous](#) [1](#) [2](#) [Next](#) [Last](#)


Vacancies View











 iss18032 


 Dashboard

 Vacancies

 Teaching Assistant Report

 Log Activity















 Announcement

 Schedule

Vacancies



You can only apply 2 Application. Total Application send = 1

Show entries


Course Initial	Class	Minimum Batch	Deadline	Minimum Grade	Action
FISDAS	13SI1	2018	2021-07-07	AB	
FISDAS	13SI2	2018	2021-07-07	AB	
IMK	13SI1	2018	2021-07-07	A	
IMK	13SI2	2018	2021-07-07	A	
IMK	13TI1	2018	2021-07-07	A	
IMK	13TI2	2018	2021-07-07	A	
MADAS I	13SI1	2018	2021-07-07	AB	
MADAS I	13SI2	2018	2021-07-07	AB	
MADAS I	13TI1	2018	2021-07-07	AB	
MADAS I	13TI2	2018	2021-07-07	AB	
MADAS I	13MR1	2018	2021-07-07	AB	
MADAS I	13MR2	2018	2021-07-07	AB	
MADAS I	13BP1	2018	2021-07-07	AB	
MADAS I	13TE1	2018	2021-07-07	AB	


Log Activity view





[Dashboard](#)
[Vacancies](#)
[Teaching Assistant Report](#)
[Log Activity](#)
[Announcement](#)
[Schedule](#)






iss18032 

Log Activity

Activity Type that are of interest to students on schedule meeting

Attendance (Person)

 Theory  Practicum  Tutorial

List of Teaching Assistant Log Activity

Show entries

Course	Semester	Class	Week	Activity Date	Attendance	Activity Type	Send Date	Status	Action
No data available in table									

Showing 0 to 0 of 0 entries

First

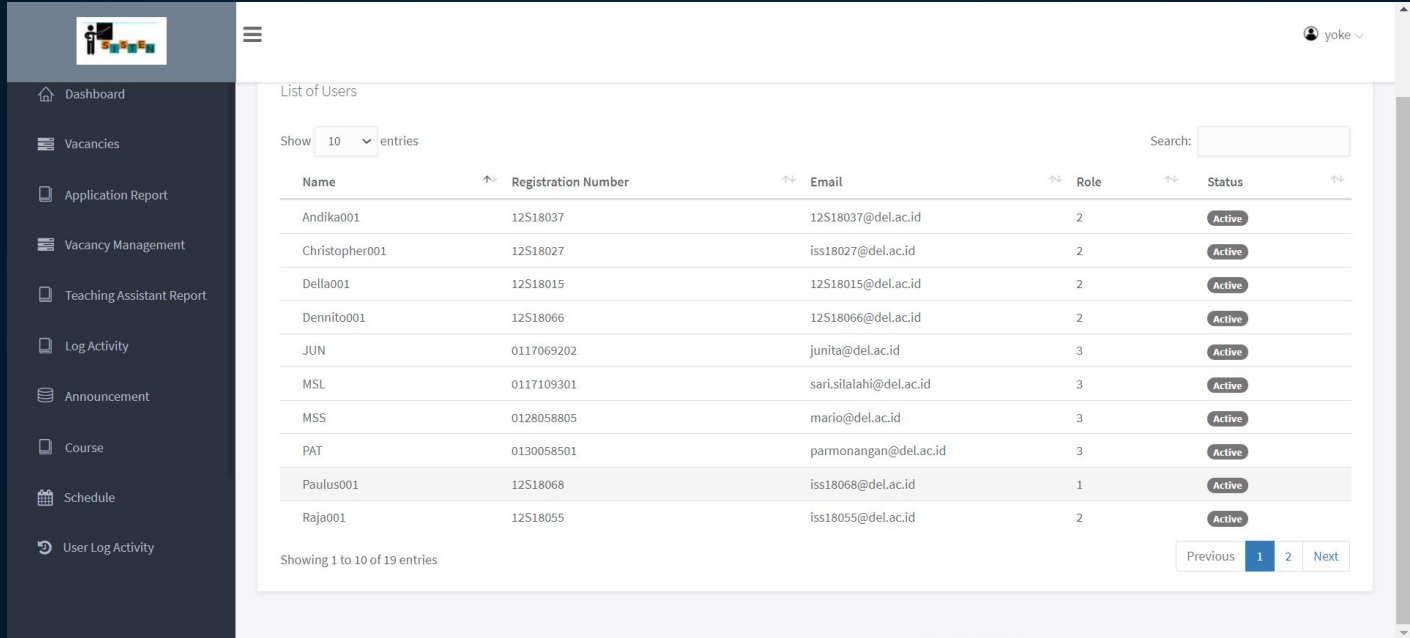
Previous

Next

Last

User Management view








The screenshot displays a web application interface for user management. On the left is a dark sidebar with a navigation menu containing: Dashboard, Vacancies, Application Report, Vacancy Management, Teaching Assistant Report, Log Activity, Announcement, Course, Schedule, and User Log Activity. The main content area is titled 'List of Users' and includes a search bar and a 'Show 10 entries' dropdown. A table lists 10 users with columns for Name, Registration Number, Email, Role, and Status. The user 'Paulus001' is highlighted. At the bottom, it shows 'Showing 1 to 10 of 19 entries' and pagination controls for 'Previous', '1', '2', and 'Next'.


Name	Registration Number	Email	Role	Status
Andika001	12S18037	12S18037@del.ac.id	2	Active
Christopher001	12S18027	iss18027@del.ac.id	2	Active
Della001	12S18015	12S18015@del.ac.id	2	Active
Dennito001	12S18066	12S18066@del.ac.id	2	Active
JUN	0117069202	junita@del.ac.id	3	Active
MSL	0117109301	sari.silalahi@del.ac.id	3	Active
MSS	0128058805	mario@del.ac.id	3	Active
PAT	0130058501	parmonangan@del.ac.id	3	Active
Paulus001	12S18068	iss18068@del.ac.id	1	Active
Raja001	12S18055	iss18055@del.ac.id	2	Active


Course Owner view








 Dashboard


 Vacancies


 Application Report


 Vacancy Management


 Teaching Assistant Report

 Log Activity

 Announcement

 Course

 Schedule



















 User Log Activity

List of Courses Owner

⊕

Show 10 entries

Search Your Data

No	Name	Curriculum	Level	Action
1	Institute	DEL-2019	Institute	 
3	Faculty of Biotechnology	FB-2019	Faculty	 
2	Faculty of Informatics and Electrical Engineering	FITE-2019	Faculty	 
4	Faculty of Industrial Technology	IT-2019	Faculty	 
8	Bachelor of Informatics Engineering	IT-2019	Study-Program	 
7	Bachelor of Management Engineering	SiMR-2019	Study-Program	 
5	Bachelor of Information Systems	SiSI-2014	Study-Program	 
9	Bachelor of Information Systems	SiSI-2019	Study-Program	 
6	Bachelor of Electrical Engineering	SiTE-2019	Study-Program	 

Showing 1 to 9 of 9 entries

First

Previous



1

Next

Last

Semester view





Dashboard

Vacancies

Application Report

Vacancy Management

Teaching Assistant Report

Log Activity

Announcement

Course

Schedule



















User Log Activity

yoke

List of Semester

Show 10 entries

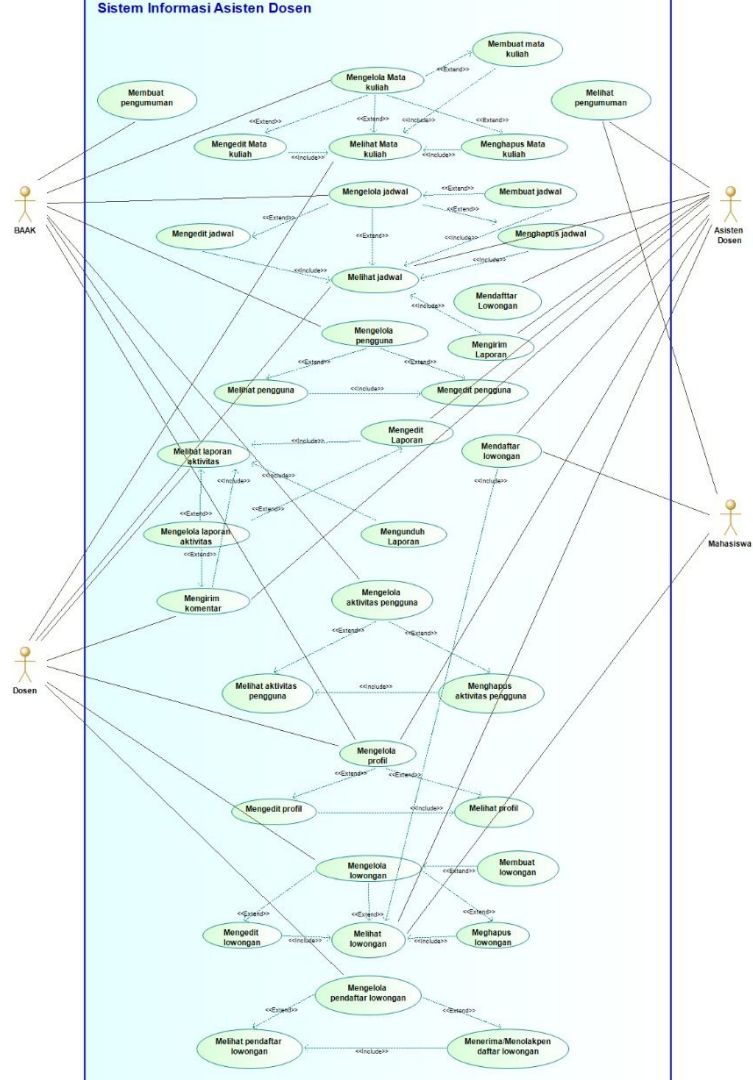
Search Your Data

No	Academic Year	Semester	Number of Students / TA Seats	Action
4	2020/2021	even	60 / 4	 
6	2020/2021	even	60 / 4	 
7	2020/2021	even	60 / 4	 
9	2020/2021	even	60 / 4	 
1	2020/2021	odd	60 / 4	 
2	2020/2021	odd	60 / 4	 
3	2020/2021	odd	60 / 4	 
5	2020/2021	odd	60 / 4	 
8	2020/2021	odd	60 / 4	 

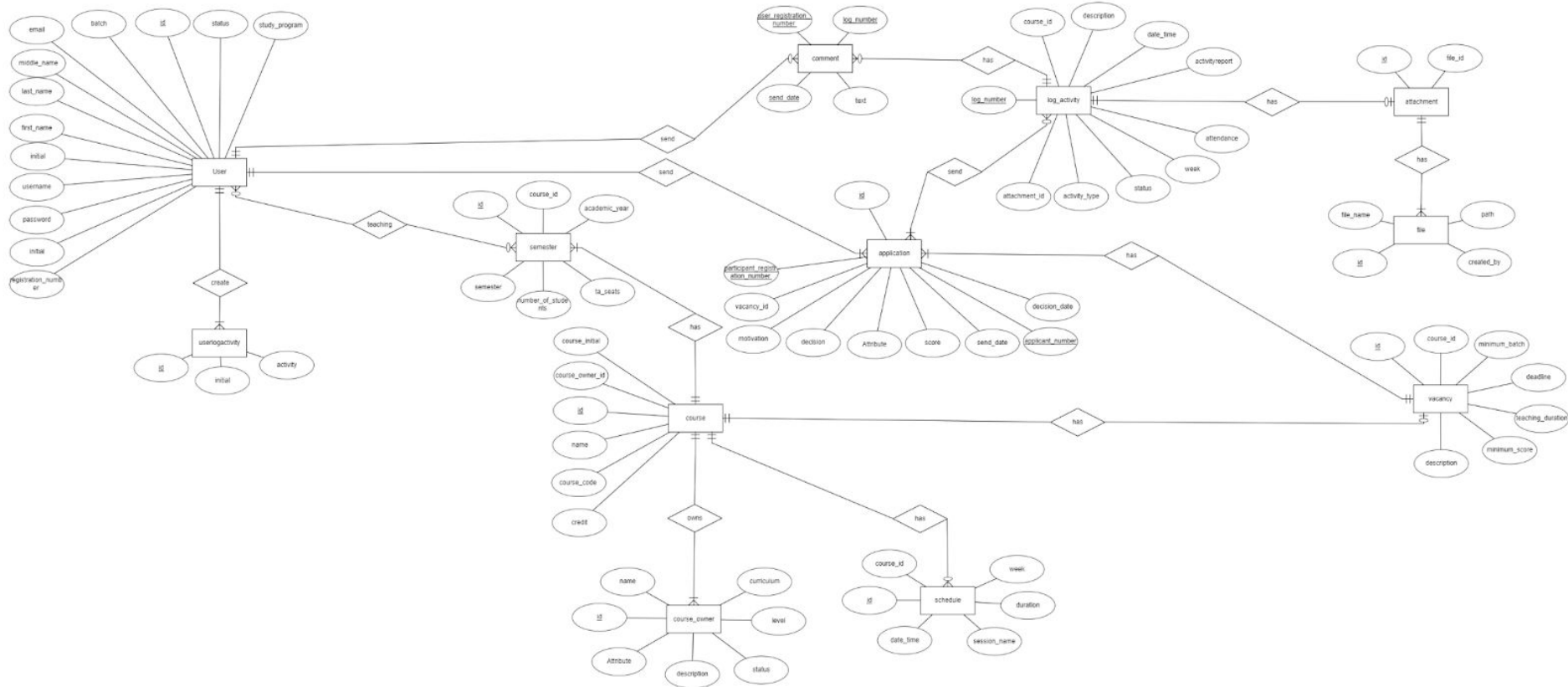
Showing 1 to 9 of 9 entries

FirstPrevious1NextLast

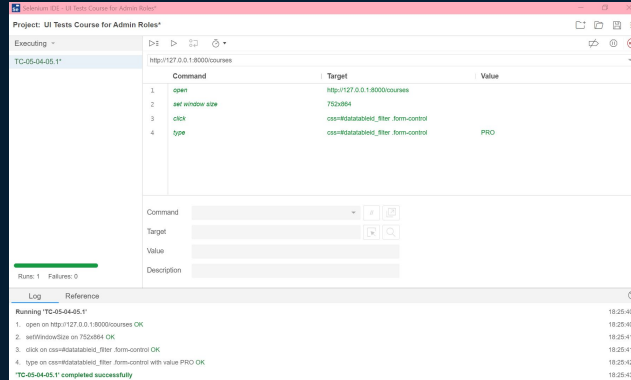
Use Case Diagram



Entity Relationship Diagram




SISTEN Testing Mechanism Using Selenium IDE



Selenium IDE is designed to record user interactions with websites to help user generate and maintain site automation, test, and eliminate the need to manually step through repeated fetches. The following is the mechanism for testing:

1. Create a name for the testing project

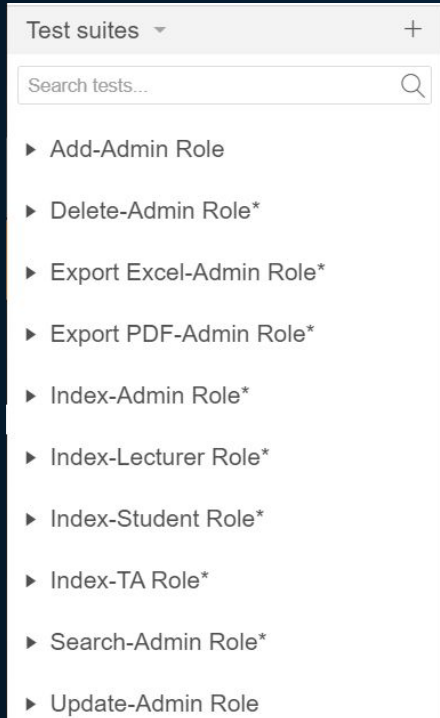
 Selenium IDE - UI Tests Course for Admin Roles*

Project: UI Tests Course for Admin Roles*

SISTEN Testing Mechanism Using Selenium IDE (Cont.)



2. Create a name for the test suites



3. Create a name for the test (unit)



SISTEN Testing Mechanism Using Selenium IDE (Cont.)



4. Enter the URI of project inside the Base URL textbox

http://127.0.0.1:8000/courses

5. Click REC and take a step by step action from the project testing process.



Selenium IDE will record the script of every action taken and display it in the test script editor box. Test script box can be edited according to the needs of the tester.

http://127.0.0.1:8000/courses

	Command	Target	Value
1	open	http://127.0.0.1:8000/courses	
2	set window size	752x864	
3	click	css=#datatableleid_filter .form-control	
4	type	css=#datatableleid_filter .form-control	PRO

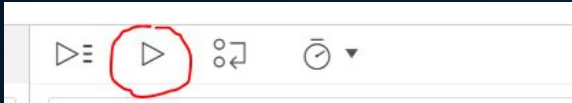
SISTEN Testing Mechanism Using Selenium IDE (Cont.)



6. Click stop recording button

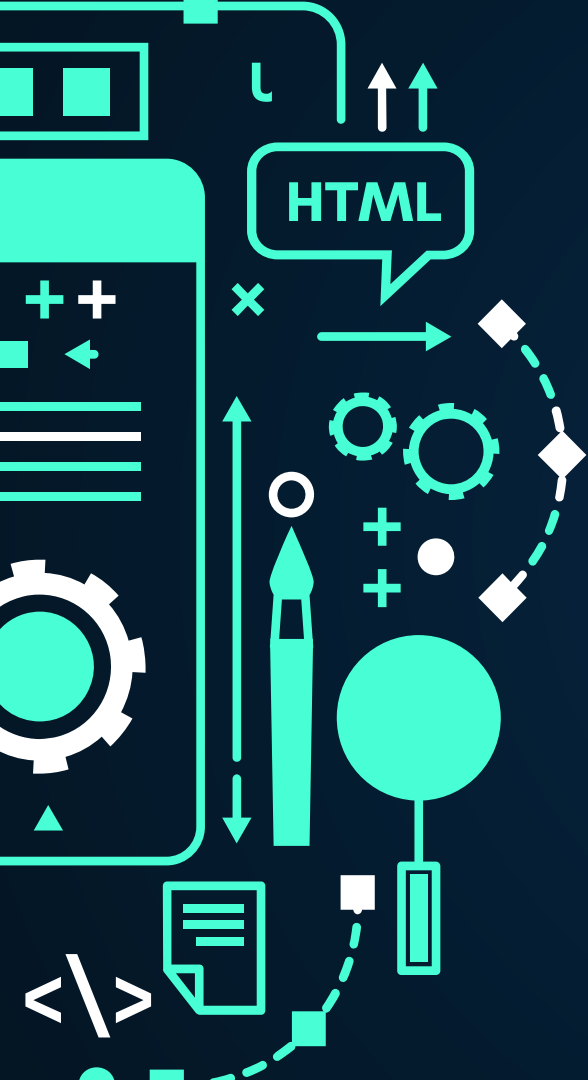


7. Click Run Current Test button to start testing



8. Selenium IDE will automatically test according to the previously recorded script. The test results will be displayed in the Log section.

Log	Reference	
Running 'TC-05-04-05.1'		
1. open on http://127.0.0.1:8000/courses	OK	18:25:40
2. setWindowSize on 752x864	OK	18:25:41
3. click on css=#datatableleid_filter .form-control	OK	18:25:41
4. type on css=#datatableleid_filter .form-control with value PRO	OK	18:25:42
'TC-05-04-05.1' completed successfully		18:25:43



THANKS!