

A technology-driven LMS with Mobility-as-a-Service, predictive analytics and mentoring.

COL Campus is a dedicated online Learning Management System that moves the traditional classroom toward an interactive, flexible, technology-driven and paperless campus — with integrated grading, feedback, rubrics and a learning-outcomes tool that supports accreditation.

CLIENT	REGION	ENGAGEMENT	PLATFORM
COL Campus	South Africa	LMS platform · MaaS & mentoring	Ruby on Rails

COL Campus.

COL Campus is a dedicated online Learning Management System that moves the traditional classroom toward an interactive, flexible, technology-driven and paperless campus — with integrated grading, feedback, rubrics and a learning-outcomes tool that supports accreditation.

OUTCOMES AT A GLANCE

Predictive

at-risk detection

Real-time

mentor–student support

Multi-branch

MaaS architecture

Evidence

for accreditation

THE BRIEF

The challenge & our solution.

THE CHALLENGE

Providers running learning across many companies and branches had no unified way to predict which students would fall behind, intervene early, keep mentors and learners connected, or produce the evidence accreditation requires.

THE SOLUTION

We engineered COL Campus with a Mobility-as-a-Service layer: predictive analytics that forecast performance and behaviour, automated tutor alerts, real-time mentor–student communication, a mentor app, mass alerts, exam booking, attendance and a full reporting suite — all recording activity to build a culture of evidence.

How we delivered it.

01

MaaS & predictions

Built the Mobility-as-a-Service layer per company and branch, predicting performance and flagging at-risk students.

02

Mentoring & alerts

Allocated mentors to branches and students, with automated tutor alerts and real-time communication.

03

Exams & attendance

Delivered exam booking, attendance registers and assignment overrides across branches.

04

Reports & evidence

Added grade, access and participation reports — recording all activity to build a culture of evidence.

TECHNOLOGY STACK

- Ruby on Rails
- LMS / SIS integration
- Predictive analytics
- Real-time messaging
- Mobile app
- Reporting engine

INSIDE THE BUILD

The complete walkthrough.

24 screens walk through the build end to end — the following pages cover each one.

MaaS overview

Mobility-as-a-Service predicts performance and behaviour, generates tutor alerts and keeps tutors and students connected in real time, per company and branch.

[Courses](#)
[Student master data](#)
[Mentor](#)
[Alerts](#)
[Course detail import](#)
[Quiz emails](#)
[Allocate mentor](#)
[Maas System Settings](#)
[Maas Logs](#)

Create new company

Register a company and its branches to run MaaS across the organization, choosing which modules are active.

The screenshot shows the COL Campus web application interface. The browser address bar displays `colcampus.com/accounts/61/external_tools/109`. The breadcrumb navigation path is `COL Campus > Test-result-app > Test-result-app`. On the left, a sidebar menu lists various navigation options: Account, People, Statistics, Permissions, Outcomes, Rubrics, Grading, Question Banks, Sub-Accounts, Themes, MaaS Export, ICAS Grades Export, **MaaS-** (highlighted), SAM Grades Export, Participation Report, Badgr Analytics, Plagiarism options, Certificate Awarded Report, Admin Tools, Analytics, and Settings. The main content area is titled `Companies > Create New Company`. It features a `Back to MaaS` button and a `Create New Company` section. This section includes a dropdown menu for selecting an account (labeled `* Account` with the text `Select Account`), a text input field for `Enter Company Name:`, and a `Submit` button.

Employer companies

Every company running MaaS, with its branches, mentors and active students at a glance.

COL Campus > Test-result-app > Test-result-app

Employer Companies

Sno	Employer company name
1	Boston City Campus (Branches 52)
2	Bank Marketing and Communications (Branches 2)
3	Business Banking (Branches 2)
4	Business Finance (Branches 2)
5	Collections & Client Relations - Equipment Finance (Branches 1)
6	Debtor Finance Operations (Branches 1)
7	Equipment Finance (Branches 1)
8	Group Business Development (Branches 2)
9	Group Company Secretary (Branches 2)
10	Group Compliance (Branches 2)
11	Group Credit (Branches 2)
12	Group Executive (Branches 2)
13	Group Executive and Support (Branches 1)
14	Group Executive (Branches 2)
15	Group Facilities (Branches 2)
16	Group Finance (Branches 2)
17	Group Human Resources and Payroll (Branches 1)
18	Group Internal Audit (Branches 1)
19	Group IT (Branches 2)
20	Group Legal (Branches 1)

Create New Company

Company branches

Manage each branch of a company, with its mentors, courses and students, and totals across the organization.

COL Campus > Test-result-app > Test-result-app

Companies > Boston City Campus

Sno	Branch
1	ALBERTON (Mentors 4)
2	BEDFORDVIEW (Mentors 7)
3	BELLVILLE (Mentors 2)
4	BENONI (Mentors 2)
5	BLOEMFONTEIN (Mentors 2)
6	DURBAN CITY BMH (Mentors 6)
7	CAPE TOWN (Mentors 2)
8	JHB CITY (Mentors 1)
9	DURBAN (Mentors 1)
10	DURBAN CITY BCC (Mentors 3)
11	EAST LONDON (Mentors 2)
12	GEORGE (Mentors 2)
13	GERMISTON (Mentors 4)
14	KEMPTON PARK (Mentors 3)
15	KIMBERLEY (Mentors 3)
16	KLERKSDORP (Mentors 1)
17	KRUGERSDORP (Mentors 2)

Create New Branch

Remove all mentor allocations

https://lti.colcampus.com/maas_employer_companies/1

MaaS student details

A learner's predicted performance, behaviour signals and suggested intervention, with mentor activity.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Account
Admin
Dashboard
Courses
Calendar
Inbox

Courses
People
Statistics
Permissions
Outcomes
Rubrics
Grading
Question Banks
Sub-Accounts
Themes
MaaS Export
ICAS Grades Export
MaaS--
SAM Grades Export
Participation Report
Badgr Analytics
Plagiarism options
Certificate Awarded Report
Admin Tools
Analytics
Settings

Import MaaS student master data

No file chosen

[Sample csv for add maas student master data](#)

Enter SIS ID

Student master data

Sno	SIS ID	Date of birth	Phone number	Language	Learning method
1	8*****2		*****		
2	1*****0	*****	*****		
3	5*****8		*****		
4	8*****5	*****	*****		
5	9*****5		*****	English	Distance
6	4*****0	*****	*****		
7	7*****6	*****	*****		
8	3*****4	*****	*****		
9	2*****6		*****		
10	4*****7	*****	*****		
11	6*****4		*****		
12	3*****8		*****		
..	*****	*****	*****		

Include course into MaaS

Select which courses are tracked under MaaS for predictive analytics and alerts.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Account
Admin
Dashboard
Courses
Calendar
Inbox

Courses
People
Statistics
Permissions
Outcomes
Rubrics
Grading
Question Banks
Sub-Accounts
Themes
MaaS Export
ICAS Grades Export
MaaS--
SAM Grades Export
Participation Report
Badgr Analytics
Plagiarism options
Certificate Awarded Report
Admin Tools
Analytics
Settings

SIS ID Account Id ☐ Included

Courses (285)

Sno	Account Id	Name	SIS ID	Included	Edit
1	8	Scientific Notation	9874	true	Edit
2	6	Academic Tamil	8904134	true	Edit
3	8	Accounting Rules	1107189	true	Edit
4	8	Basic Finance & Budgeting	1567374	true	Edit
5	8	Cash Book	11065775	true	Edit
6	8	Consumer Product Handling	1108965	true	Edit
7	8	Practice: Social Media	56432	true	Edit
8	8	Theory of GJ	786543	true	Edit
9	8	Work together	8976543	true	Edit
10	8	Ho to work collaporate	678534	true	Edit
11	8	Learn to Swim	45689	true	Edit
12	8	Walking Interview	564298	true	Edit

07

Edit course

Adjust how a course is tracked, its learning outcomes and accreditation alignment.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Edit Course

Account id
4

Name
Sociology of Studies

SIS ID
11068

Maas course sections

- 2020 JULY-DEC
- 2021 JAN-JULY
- 2021 JULY-DEC
- 2022 JAN-JULY
- 2022 JULY-DEC

Included ☒

[Update Maas course](#) [Cancel course](#)

Left sidebar menu: Account, Admin, Dashboard, Courses, Calendar, Inbox, Courses, People, Statistics, Permissions, Outcomes, Rubrics, Grading, Question Banks, Sub-Accounts, Themes, MaaS Export, ICAS Grades Export, **MaaS-**, SAM Grades Export, Participation Report, Badgr Analytics, Plagiarism options, Certificate Awarded Report, Admin Tools, Analytics, Settings.

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Allocate mentor into MaaS

Assign a mentor to a branch and the students they will support in real time.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Allocate mentor

[Choose file](#) No file chosen

[Import](#) [Back to MaaS](#)

[Sample csv to upload allocate mentors file](#)

Last upload details:

Name: Jacob jaya prince Y
 Uploaded date: 18 Mar 2022 05:55 AM
 Uploaded file: [Download](#)

Past uploads:

S.No	Name	File	View
1	Lionel T Phale	Download	View
2	Lionel T Phale	Download	View
3	Lionel T Phale	Download	View
4	Lionel T Phale	Download	View
5	Lionel T Phale	Download	View
6	Lionel T Phale	Download	View
7	Lionel T Phale	Download	View
8	Lionel T Phale	Download	View
9	Lionel T Phale	Download	View
10	Lionel T Phale	Download	View

Left sidebar menu: Account, Admin, Dashboard, Courses, Calendar, Inbox, Courses, People, Statistics, Permissions, Outcomes, Rubrics, Grading, Question Banks, Sub-Accounts, Themes, MaaS Export, ICAS Grades Export, **MaaS-**, SAM Grades Export, Participation Report, Badgr Analytics, Plagiarism options, Certificate Awarded Report, Admin Tools, Analytics, Settings.

Branch mentors

Every mentor allocated across branches, with their students and alert volume.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Employer Companies » Boston City Campus » ALBERTON

Sno	Mentor	Action
1	Jacob jaya prince Y (Students 154)	Edit Allocation
2	Saravana Kumar M (Students 157)	Edit Allocation
3	Denesh V (Students 160)	Edit Allocation
4	James G (Students 155)	Edit Allocation

Evenly Allocate

Account
Admin
Dashboard
Courses
Calendar
Inbox

Courses
People
Statistics
Permissions
Outcomes
Rubrics
Grading
Question Banks
Sub-Accounts
Themes
MaaS Export
ICAS Grades Export
MaaS-
SAM Grades Export
Participation Report
Badgr Analytics
Plagiarism options
Certificate Awarded Report
Admin Tools
Analytics
Settings

Edit mentor allocation

Update a mentor's branch, capacity and the students they support.

colcampus.com/accounts/61/external_tools/109

COL Campus > Test-result-app > Test-result-app

Employer Companies » Boston City Campus » ALBERTON » Jacob jaya prince Y

☒ Reallocate the students equally to the existing mentors
☐ Remove the students from mentor
☐ Remove mentor

[Submit](#) [Cancel](#)

***Note :**

- **Reallocate the students equally to the existing mentors** - This will reallocate students to the existing mentors without delete the mentor.
- **Remove the students from mentor** - It will remove all the students allocated in the mentor.
- **Remove Mentor** - It will delete all the students allocations and delete the mentor.

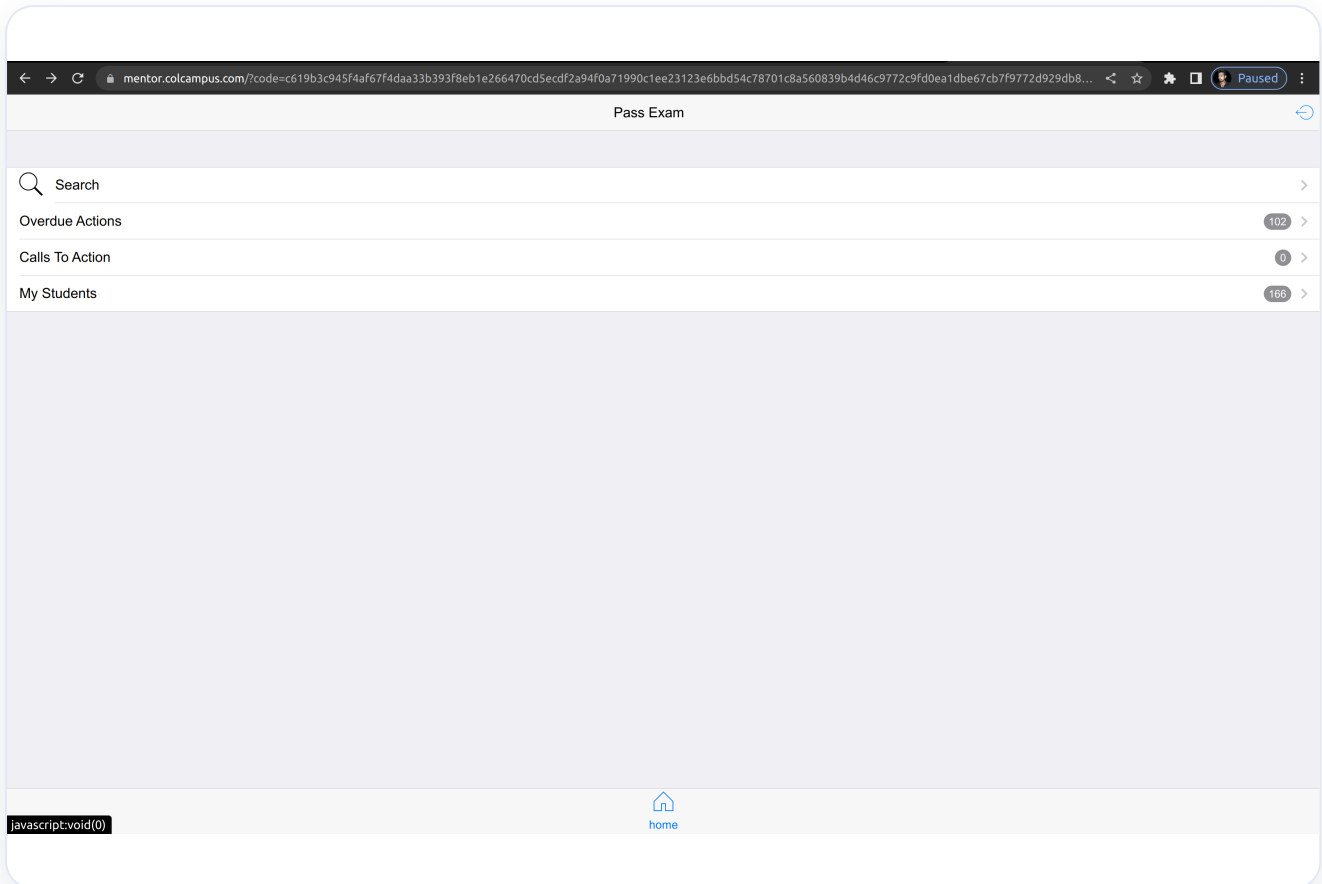
Account
Admin
Dashboard
Courses
Calendar
Inbox

Courses
People
Statistics
Permissions
Outcomes
Rubrics
Grading
Question Banks
Sub-Accounts
Themes
MaaS Export
ICAS Grades Export
MaaS-
SAM Grades Export
Participation Report
Badgr Analytics
Plagiarism options
Certificate Awarded Report
Admin Tools
Analytics
Settings

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Mentor dashboard

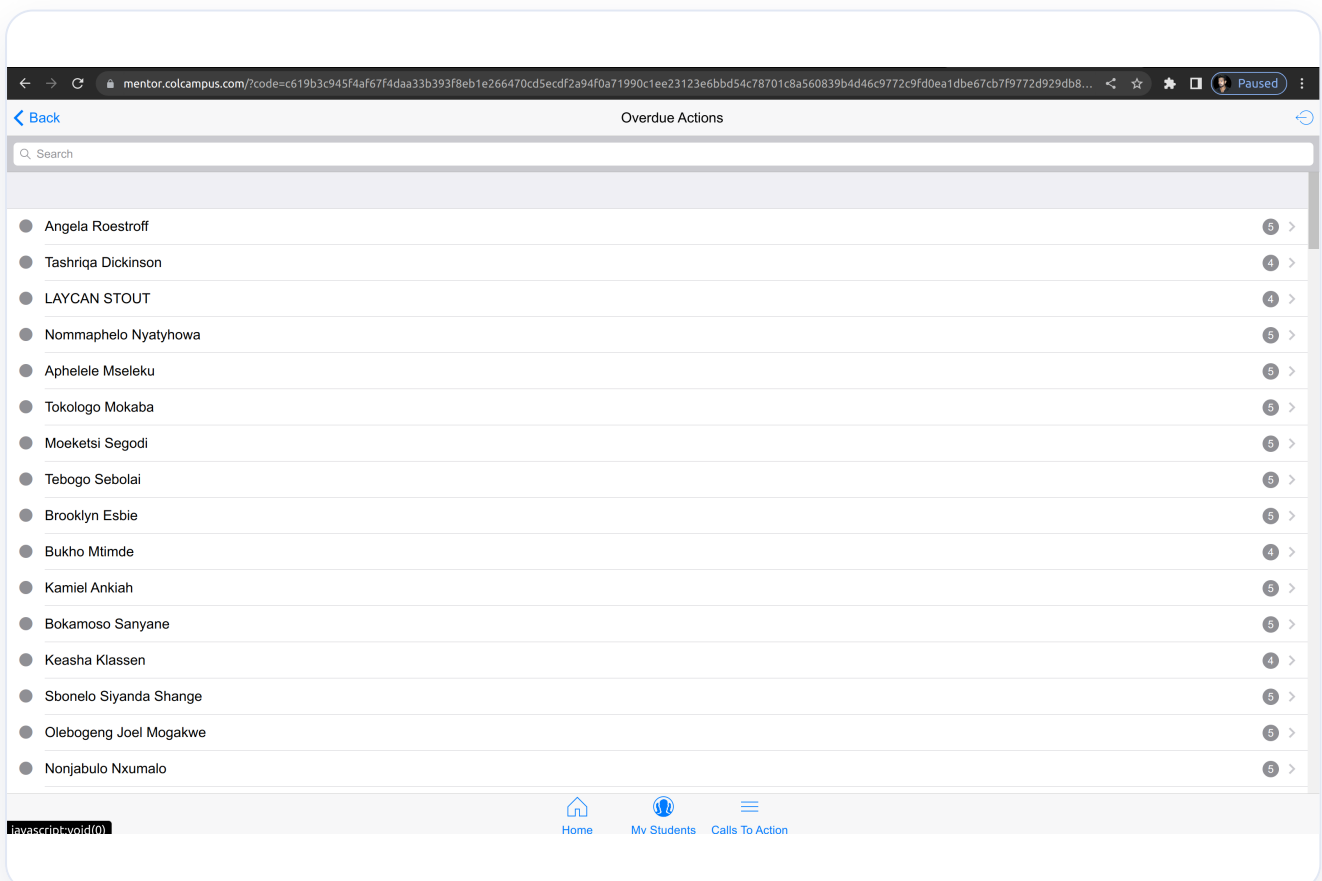
The mentor app: your students, today's tutor alerts and the tasks that need attention.



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Mentor students

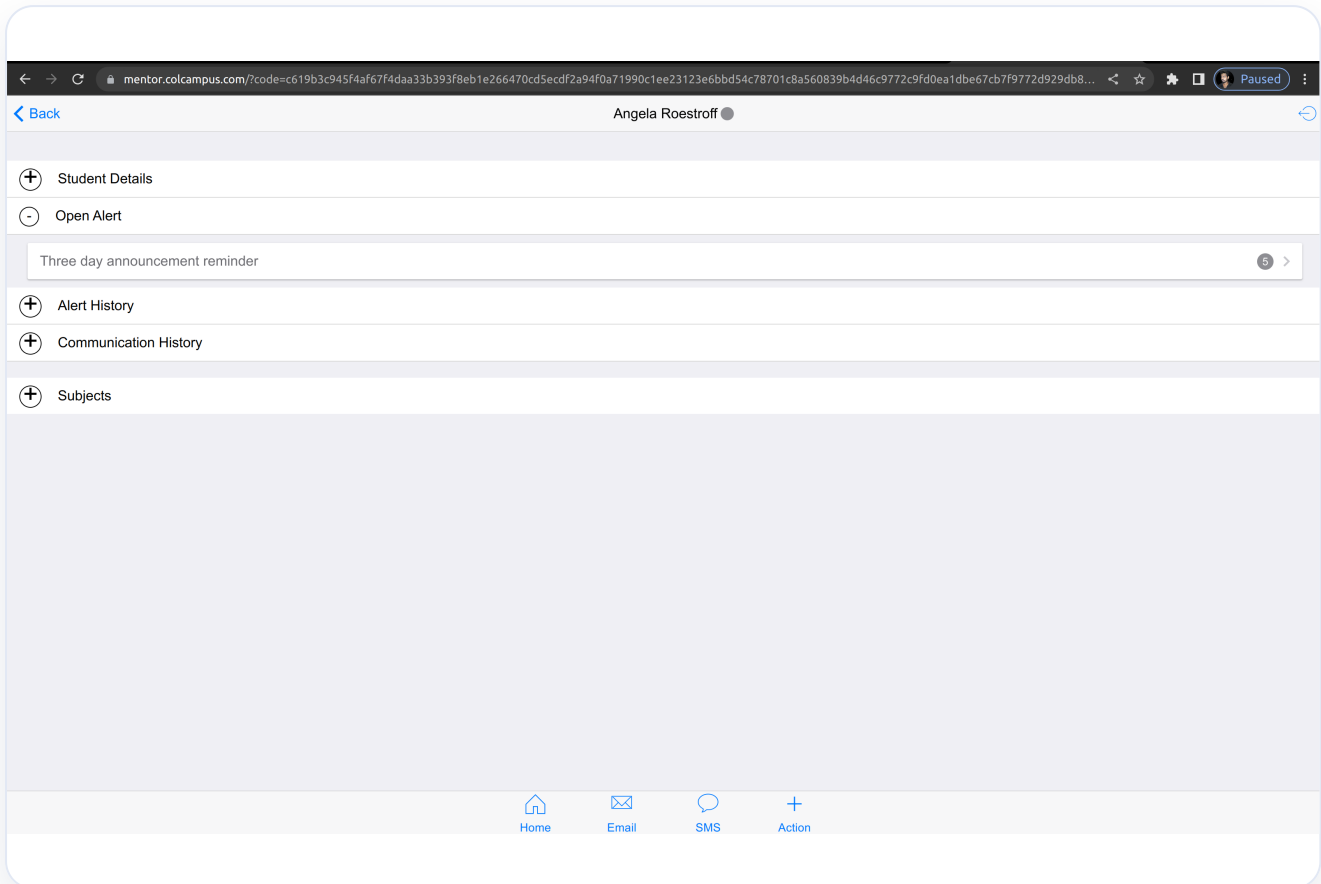
Every learner a mentor supports, their predicted performance, attendance and status.



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Tasks for students

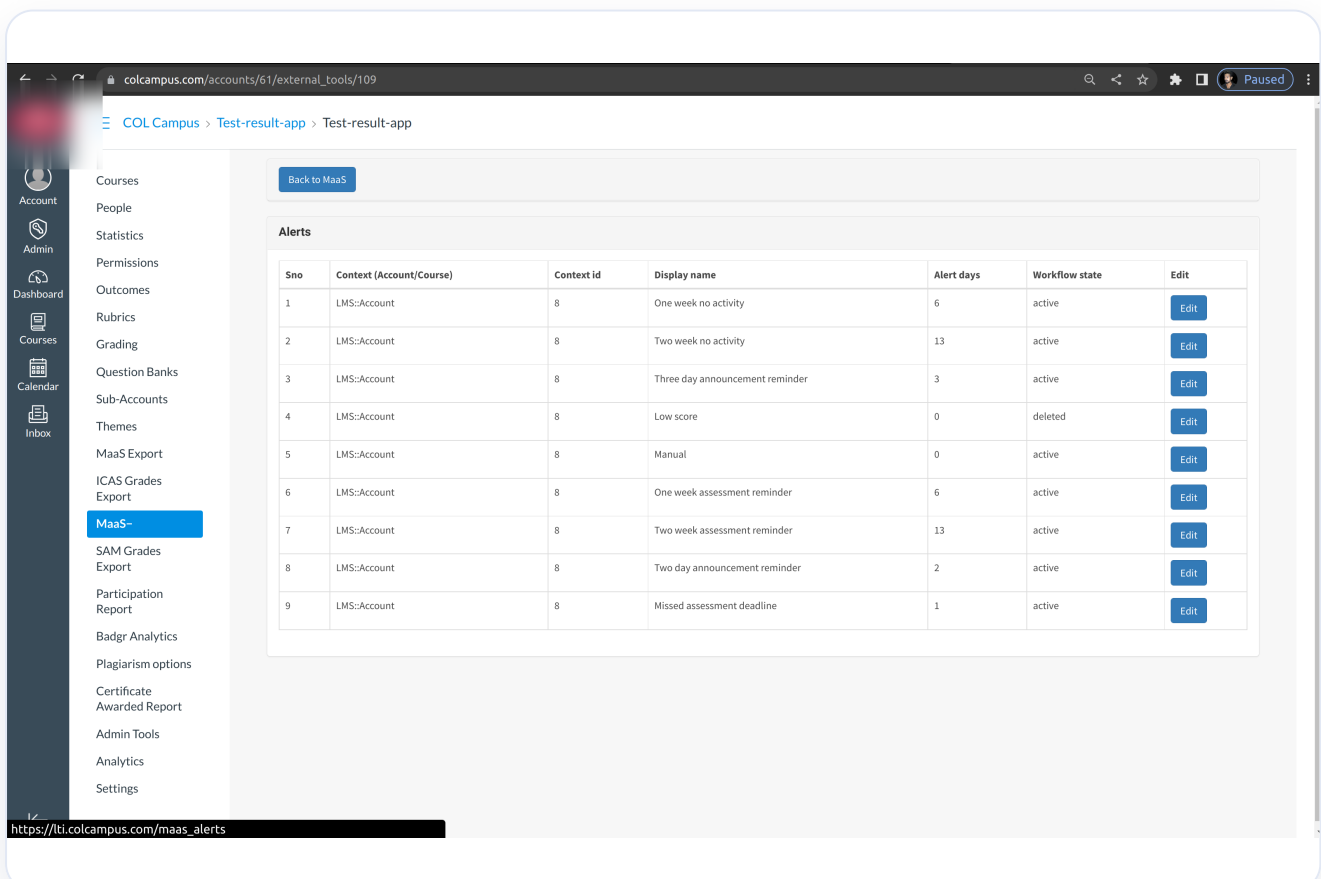
Assign and track behaviour-modification and learning tasks for mentored students.



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Alert features

Configure how mass alerts reach students and tutors across email, SMS, push and real-time chat.



Alert types

The library of alert types, their trigger conditions and channels.

COL Campus > Test-result-app > Test-result-app

[Back to MaaS](#)

MaaS Features

Summary: The below Enable / Disable options to handle MaaS system features in a single click.

Sno	MaaS Feature Name	Status	Action
1	MaaS Send over due email to mentors	Disabled	Enable
2	MaaS Send Email	Disabled	Enable
3	MaaS Send SMS	Disabled	Enable
4	MaaS Send daily mentor status report	Disabled	Enable
5	MaaS Alert generation	Disabled	Enable
6	MaaS Round Robin Allocation	Disabled	Enable

MaaS activity logs

Every student and tutor action and communication, recorded to build a culture of evidence.

COL Campus > Test-result-app > Test-result-app

[Back to MaaS](#)

MaaS Logs

Sno	Logs	Time
1	MAAS Process has been Completed	2023-01-09 01:05:05 +0200
2	MAAS Process is started	2023-01-09 01:05:05 +0200
3	MAAS Process has been Completed	2023-01-08 01:05:05 +0200
4	MAAS Process is started	2023-01-08 01:05:05 +0200
5	MAAS Process has been Completed	2023-01-07 01:05:05 +0200
6	MAAS Process is started	2023-01-07 01:05:05 +0200
7	MAAS Process has been Completed	2023-01-06 01:05:05 +0200
8	MAAS Process is started	2023-01-06 01:05:05 +0200
9	MAAS Process has been Completed	2023-01-05 01:05:05 +0200
10	MAAS Process is started	2023-01-05 01:05:05 +0200
11	MAAS Process has been Completed	2023-01-04 01:05:05 +0200
12	MAAS Process is started	2023-01-04 01:05:05 +0200
13	MAAS Process has been Completed	2023-01-03 01:05:04 +0200
14	MAAS Process is started	2023-01-03 01:05:04 +0200
15	MAAS Process has been Completed	2023-01-02 01:05:05 +0200
16	MAAS Process is started	2023-01-02 01:05:05 +0200
17	MAAS Process has been Completed	2023-01-01 01:05:05 +0200
18	MAAS Process is started	2023-01-01 01:05:05 +0200
19	MAAS Process has been Completed	2022-12-31 01:05:05 +0200
20	MAAS Process is started	2022-12-31 01:05:05 +0200

Exam schedule

Every scheduled exam across branches, with venue, capacity and live booking status.

The screenshot shows the 'Exam Booking' interface in a web browser. The URL is colcampus.com/users/129037/external_tools/136. The page has a sidebar with navigation links: Account, Dashboard, Courses, Calendar, and Inbox. The main content area is titled 'Exam schedules' and includes a search bar with filters for 'Select branch', 'Select course', 'From date', and 'To date'. Below the search bar, there is a list of exam schedules:

- ALBERTON 26092022**
Branch: ALBERTON (ALBERTON EXAM CENTRES)
Course: [Exam Booking Sys Test](#)
Schedule: Slots available from 26 Sep 2022 01:30 PM To 26 Sep 2022 04:30 PM
- DEMO EXAM BOOKING**
Course: [Exam Booking Assessments dropdown](#)
Schedule: Slots available from 30 Sep 2022 08:52 PM To 30 Sep 2022 11:52 PM [Edit](#)
- DURBAN TEST 16092022**
Branch: DURBAN (DURBAN EXAM CENTRE)
Course: [Exam Booking Sys Test](#)
Schedule: Slots available from 16 Sep 2022 02:30 PM To 16 Sep 2022 05:00 PM
- ALBERTON 13092022**
Branch: ALBERTON (ALBERTON EXAM CENTRE)
Course: [Exam Booking Sys Test](#)
Schedule: Slots available from 13 Sep 2022 01:30 PM To 13 Sep 2022 03:30 PM

New exam schedule

Book an exam slot, set the venue and capacity, and open it to students to self-book.

The screenshot shows the 'New exam schedule' form in the 'Exam Booking' interface. The form is titled 'Exam booking' and includes the following fields:

- Lms branch:** Select branch (dropdown)
- * Title:** Text input
- Location name:** Text input
- * Participants per appointment:** Text input
- Select courses:** List of courses with checkboxes:
 - ☐ Exam Booking Sys Test
 - ☐ Exam Booking Assessments dropdown
- Select slots:**
 - Date:** Text input
 - Time Range:** Time range selector with a green plus button.
 - Divide into equal slots of:** Text input (30) minutes, with a 'Go' button.
- Description:** Text area
- Create Appointment group:** Button

Grade export report

Export grades against marking criteria and learning outcomes, with rubric-based feedback.

The screenshot shows the 'Grade export report' interface in the COL Campus system. The left sidebar contains a navigation menu with options: Account, Admin, Dashboard, Courses, Calendar, and Inbox. The 'Courses' section is expanded, showing sub-options: People, Statistics, Permissions, Outcomes, Rubrics, Grading, Question Banks, Sub-Accounts, Terms, Authentication, SIS Import, Themes, Developer Keys, MaaS Export, ICAS Grades Export (highlighted), Admin Tools, Analytics, and Settings. The main content area is titled 'COL Campus > COL Campus' and contains a form for generating a grade export report. The form includes the following fields and options:

- Report level:** Checkboxes for 'Both' (checked), 'Assignment only' (checked), and 'Quiz only' (checked).
- Include in-active student:** A checkbox that is currently unchecked.
- User sis ids:** A text input field.
- User Emails:** A text input field with a placeholder: 'Comma separated Email ids, e.g - abc@example.com,xyz@example.com'.
- Due date range:** Two text input fields for 'From' and 'To' dates.
- Grade range:** A range slider with a blue bar and a central dot.
- Completed student:** A checkbox that is currently unchecked.
- Select course:** A dropdown menu currently showing 'All courses'.
- Course ids:** A text input field with a placeholder: 'Comma separated course ids e.g 001,002,003'.
- Select assessment:** A dropdown menu.
- Generate Report:** A blue button at the bottom right of the form.

Student access report

When and how often students access the LMS, by branch and course, with trend flags.

The screenshot shows the 'Student access report' interface in the COL Campus system. The left sidebar is identical to the previous screenshot, with the 'MaaS Export' option highlighted. The main content area is titled 'COL Campus > COL Campus' and contains a form for generating a student access report. The form includes the following fields and options:

- From Date:** A text input field.
- To Date:** A text input field.
- Generate Report:** A blue button.
- Download Link:** A link that says 'Click here to download the last generated report: 2023-01-09 10:53:14 UTC' with a download icon.

Participation report

Engagement and participation across courses, rolled up as evidence for accreditation.

The screenshot shows the 'Student Participation Report' page in the COL Campus system. The left sidebar contains a navigation menu with options like Account, Admin, Dashboard, Courses, Calendar, and Inbox. The main content area has a title 'Student Participation Report' and a form with the following fields:

- Select course:** A dropdown menu currently showing 'Auto Generate Certificate'.
- Select assessment:** A dropdown menu currently showing 'File upload working or not check'.
- Participation date range:** Two date input fields showing '01/01/2023' and '09/01/2023'.

Below the form is a blue button labeled 'Generate Report'. At the bottom of the form area, there is a link: 'Click here to download the last generated report: 2022-06-07 09:55:10 UTC'.

Attendance system

Mark and track attendance per session, by course and branch, in a weekly register.

The screenshot shows the 'Attendance' page in the COL Campus system. The left sidebar contains a navigation menu with options like Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Quizzes, Modules, Class Notebook, Course Evaluations, Attendance, Badges, Plagiarism options, and Settings. The main content area has a title 'Attendance' and a form with the following fields:

- Course:** A dropdown menu currently showing 'Exam Booking Assessments dropdown'.
- Date:** A date input field showing '2023-01-09'.

Below the form is a blue button labeled 'Submit attendance'. To the right of this button are two buttons: 'Mark all present' (with a green checkmark icon) and 'Mark all absent' (with a red X icon). There is also a 'Report' button with a download icon. Below these buttons is a note: 'Note: Mark all buttons will not submit the attendance, instead its just mark present/absent in the UI only.' Below the note is a table with the following columns: 'Name', 'SisId', and 'Present'. The table contains two rows of data:

Name	SisId	Present
RajaMani		...
RajaSekar		...

Below the table is a link: 'Showing 1 to 2 of 2 entries'. At the bottom right of the table area are navigation buttons: 'First', 'Previous', 'Next', and 'Last'.

Assignment override

Grant an individual student extra time, attempts or a due-date change — logged for evidence.

The screenshot shows the 'Assignment override upload' interface. On the left is a sidebar with navigation links: Home, Account, Admin, Dashboard, Courses, Calendar, and Inbox. The main content area has a title 'Assignment override upload' and a 'Choose file' button. Below it is an 'Import' button. A note specifies the CSV format: 'Sample csv to upload assignment override file' and 'Note: AssignmentDueAt in UTC time, format i.e, 2023-10-30 10AM'. The 'Last upload details' section shows: Name: Jacob jaya prince Y, Uploaded date: 16 Aug 2022 10:16 AM, Uploaded file: Download, No of overrides created: 0, No of overrides failed: 1, and Errors: 1. The error message is: 'Row: 2, The mandatory fields (CourseSisID, StudentSisID, AssignmentID, AvailableFrom, AssignmentDueAt) Not found / Not valid'. The 'Past uploads' section contains a table with 7 rows of upload data.

S.No	Name	File	No. of overrides created	No. of overrides failed	View
1	Samantha Mitchell	Download	9	0	View
2	Samantha Mitchell	Download	13	0	View
3	Samantha Mitchell	Download	14	0	View
4	Samantha Mitchell	Download	66	0	View
5	Samantha Mitchell	Download	83	0	View
6	Samantha Mitchell	Download	19	0	View
7	Samantha Mitchell	Download	47	0	View

Student course progress

The student dashboard: modules, grades, upcoming exams and a direct line to their mentor.

The screenshot shows the Amrod Academy student dashboard. At the top, there's a notification banner and the Amrod Academy logo. The dashboard is titled 'Dashboard' and features a sidebar with navigation links: Account, Dashboard, Courses, Calendar, and Inbox. The main content area displays four course progress cards for 'AMROD CUSTOMER COURSES' (ACC005, ACC004, ACC002, ACC001). Each card shows a 'Course progress' bar. Below the cards, there's a section for 'AMROD CUSTOMER COURSES - Y...' (ACC003) and a background image of students in a classroom setting. On the right, there's a 'To Do' section with 'Nothing for now' and a 'View Grades' button.

Engineered for measurable impact.

COL Campus predicts which learners will fall behind, alerts their tutor, and lets the mentor intervene in real time — all recorded as evidence for accreditation.

COL Campus · LMS with MaaS

Built and delivered by ZionStar

Predictive

at-risk detection

Real-time

mentor-student support

Multi-branch

MaaS architecture

Evidence

for accreditation

Want results like these for your learners?

Tell us what you're building — we'll map the fastest path to your outcome.

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