

A virtual-classroom and engagement LTI with leaderboards and referrals for an online language school.

ReDefiners World Languages teaches languages online. ZionStar built an LTI application embedded in their LMS that lifts student engagement and tracks enrollments — with an admin dashboard, a virtual classroom, a leaderboard and a referral system.

CLIENT	REGION	ENGAGEMENT	PLATFORM
ReDefiners World Languages	United States	Online language school • Engagement LTI	LTI 1.3

ReDefiners World Languages.

ReDefiners World Languages teaches languages online. ZionStar built an LTI application embedded in their LMS that lifts student engagement and tracks enrollments — with an admin dashboard, a virtual classroom, a leaderboard and a referral system.

OUTCOMES AT A GLANCE

LTI

LMS-native app

Virtual

classroom & recordings

Leaderboard

gamified engagement

Referrals

points & rewards

THE BRIEF

The challenge & our solution.

THE CHALLENGE

ReDefiners needed to raise engagement and retention in online language courses — with a clear view of enrollments across languages, an easy way to run live virtual classes, and incentives that keep learners coming back — none of which the LMS offered out of the box.

THE SOLUTION

We engineered an LTI application embedded in the LMS: an admin dashboard with enrollment and language analytics, a virtual classroom to schedule and record live classes, a points-based leaderboard, and a referral system that rewards students for inviting and activating new learners.

How we delivered it.

01

Admin dashboard

Enrollment and language analytics — totals, monthly trends and student mix at a glance.

02

Virtual classroom

Schedule, run and record live classes, with today, upcoming and past views.

03

Leaderboard & points

A gamified leaderboard where admins award points for participation and wins.

04

Referral system

Reward students with points for inviting and activating new learners.

TECHNOLOGY STACK

• LTI 1.3

• Canvas LMS

• Ruby on Rails

• Virtual classroom

• Gamification

• Referral engine

INSIDE THE BUILD

The complete walkthrough.

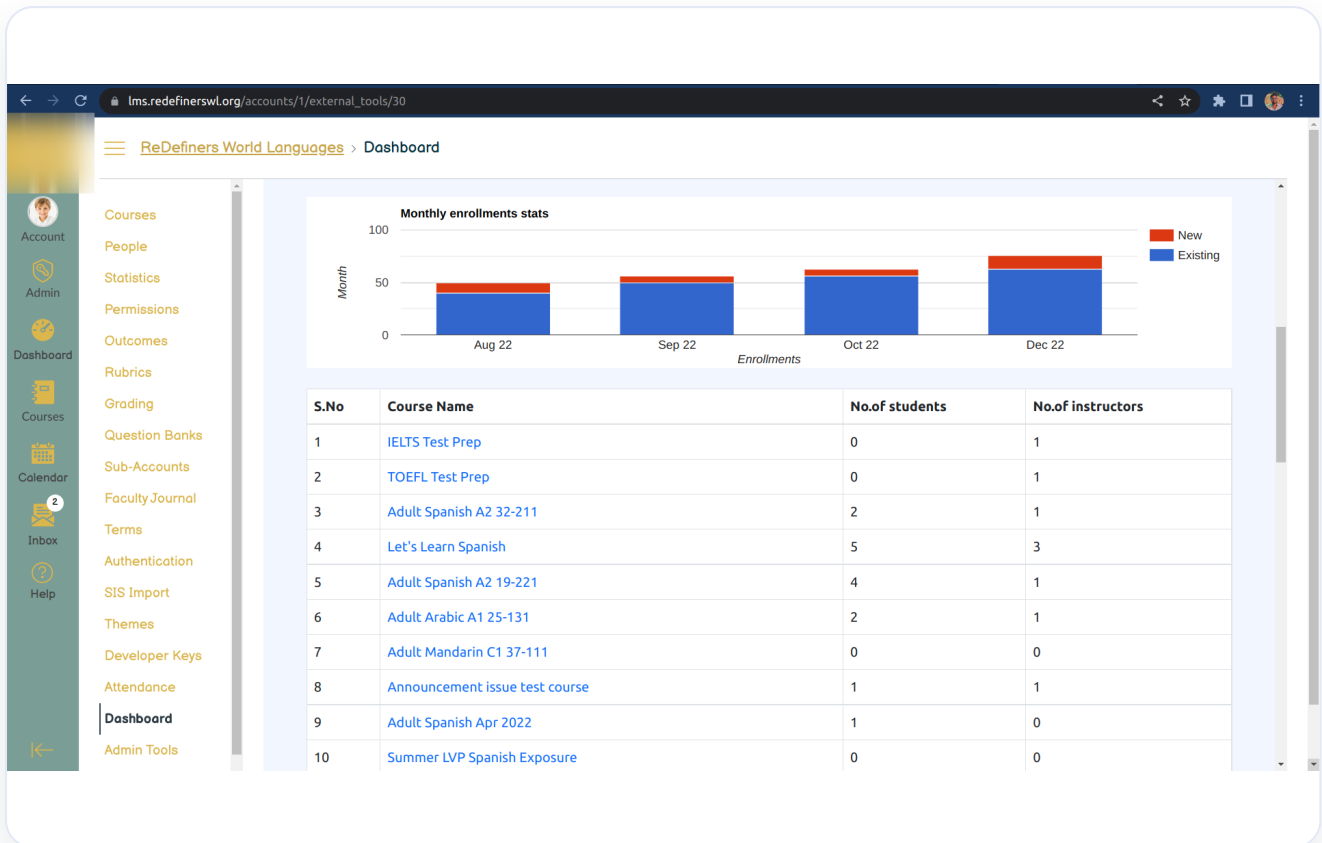
9 screens walk through the build end to end — the following pages cover each one.



01

Enrollment dashboard

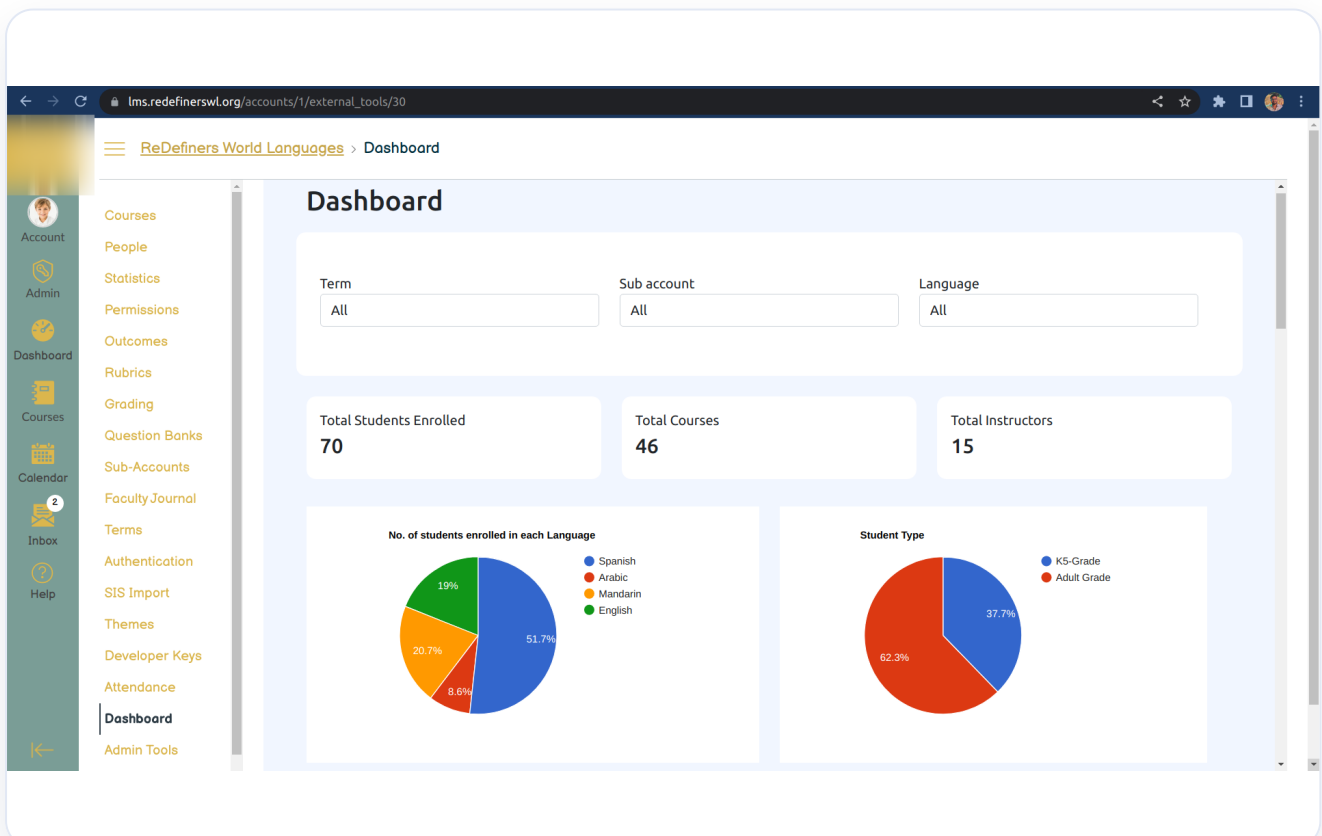
Monthly enrollment stats and every course with its student and instructor counts, in one admin view.



02

Analytics dashboard

Total students, courses and instructors, with enrollment broken down by language and student type.



03

Schedule a class

Set up a live virtual class — topic, description, date, time and duration — in the embedded classroom.

The screenshot shows the 'Class Schedule' form in the LMS interface. The form is titled 'Class Schedule' and is located in the 'Virtual Classroom' section. The form fields are as follows:

- Topic:** ROR tutorial
- Description:** This tutorial has been designed for beginners who would like to use the Ruby framework for developing database-backed web applications.
- Date & Time:** 7 January 2023, 10 AM : 15
- Duration (hrs : min):** 01 : 00

At the bottom of the form, there are two buttons: 'Cancel' and 'Create'.

04

Today's classes

Every class scheduled for today, with topic, duration and one-tap join.

The screenshot shows the 'Today's classes' view in the LMS interface. The view is titled 'Class Schedule' and is located in the 'Virtual Classroom' section. The view displays a table of scheduled classes for today.

At the top right of the table, there is a button '+ Add new schedule' and a link 'How to create a Virtual Classroom?'.

The table has the following columns: DATE, TOPIC, DURATION, and buttons for Start Meeting, Edit, and Delete.

DATE	TOPIC	DURATION	Start Meeting	Edit	Delete
07-Jan-2023	ROR tutorial	1 hrs 0 min	Start Meeting	Edit	Delete

Upcoming classes

A forward view of upcoming live classes so students and instructors can plan ahead.

The screenshot shows the 'Virtual Classroom' page in the LMS. The left sidebar contains navigation links: Home, Account, Admin, Dashboard, Courses, Calendar, Inbox, and Help. The main content area is titled 'Class Schedule' and features a tabbed interface with 'Today', 'Upcoming', and 'Past' tabs. The 'Upcoming' tab is active, displaying a table of upcoming classes. A '+ Add new schedule' button is located in the top right corner of the table area.

DATE	TOPIC	DURATION		
09-Jan-2023	ReactJS tutorial	1 hrs 0 min	Edit	Delete
17-Jan-2023	Python Tutorial	1 hrs 0 min	Edit	Delete

Past classes & recordings

Concluded classes with their recording links, available to learners within 24 hours.

The screenshot shows the 'Virtual Classroom' page in the LMS, with the 'Past' tab selected. The 'Class Schedule' section displays a table of past classes with recording links. A '+ Add new schedule' button is in the top right corner. Below the table, a note states: 'Note: The recordings will be updated in 24 hour.'

DATE	TOPIC	DURATION	RECORDING LINK		
16-Feb-2022	Hello World Classroom Spanish tutorial	13 hrs 18 min	Link	Edit	Delete
26-Jan-2022	DotNet	9 hrs 33 min	Link	Edit	Delete

Note: The recordings will be updated in 24 hour.

Leaderboard

A gamified leaderboard ranks learners by points, with a top-three podium to drive friendly competition.

The screenshot shows the LMS interface with a sidebar menu on the left and a main content area titled "Leaderboard". The sidebar menu includes options like Home, Announcements, Grades, Modules, Assignments, Discussions, Quizzes, Attendance, People, Pages, Files, Syllabus, Outcomes, Rubrics, Virtual Classroom, and Settings. The main content area displays a leaderboard with the following data:

Rank	Profile Picture	Name	Points
1		Jerome	60
2		Emmanuel	28
3		Denesh	10
4		Jacob	10
5		Benito	8
6		Sam	6
7		Saravanan	5
8		Kumar	5

Below the leaderboard, a note states: "Note: This leaderboard data will be refreshed in every hour. How are points awarded? [Click Here!](#)"

Award points

Admins award points for game wins, assignment submissions and attendance to reward participation.

The screenshot shows the LMS interface with a sidebar menu on the left and a main content area titled "Award Points". The sidebar menu is the same as in the previous screenshot. The main content area displays a modal for awarding points to a specific learner, Jerome, who has 60 points. The modal includes the following options:

- Game winner (5 points)
- Game player (1 points)
- Team player (5 points)

Below the modal, a section titled "Points" shows the following data:

Points
Game winner: 5
Assignment submission: 3
Attendance on 2022-09-16: 2

Referral system

Students earn points for inviting new users — and more when invitees activate — with a referral status tracker.

The screenshot displays a web application interface for a referral system. On the left is a vertical sidebar with navigation links: Home, Account, Announcements, Grades, Admin, Modules, Assignments, Discussions, Quizzes, Attendance, People, and a 'Leaderboard' section with sub-links for Pages, Files, Syllabus, Outcomes, Rubrics, Virtual Classroom, and Settings. The main content area is titled 'Get 5 points by inviting a new user! Get 50 points when the invited user successfully logged in!'. It features input fields for 'Email' and 'Phone Number', a 'Send Invite' button, and a note about country codes. Below this is a table titled 'Your referrals.' showing a list of referrals with columns for S No., Email, Phone No., Date, and Check Referral Status.

Get 5 points by inviting a new user!
Get 50 points when the invited user successfully logged in!

Email Phone Number

Note: Please enter Country Code before entering Phone Number. (eg. +1XXXXXXXXXX)

[Send Invite](#)

Your referrals.

S No.	Email	Phone No.	Date	Check Referral Status
1		+919940793024	2022-02-15	Invite Sent
2		+918807413691	2022-02-15	Invite Sent
3	beniberyl54+2121@gmail.com		2022-02-15	Enrolled
4	beniberyl54+2@gmail.com		2022-02-07	Invite Sent
5	beniberyl54+1@gmail.com		2022-02-07	Enrolled
6	beniberyl54@gmail.com		2022-02-07	Invite Sent

Engineered for measurable impact.

An admin dashboard, a live virtual classroom, a leaderboard and a referral system — one LTI app that keeps language learners enrolled, engaged and coming back.

ReDefiners World Languages · Engagement LTI

Built and delivered by ZionStar

LTI

LMS-native app

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Want results like these for your learners?

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