

## ISHIR develops web application for VoiceLessons

### Client

The client, VoiceLessons, is based in California, provides a platform to music students and teachers where they can collaborate and students can take online lessons from available teachers to upgrade their music skills. VoiceLessons web application allows teacher users to create their profile, define their availability, teach online and optimize their available time. Student users schedule lessons, connect musical instruments and stream LIVE notes.

### Challenges

The client wished to upgrade their web application to Angular 5 from **DASH**. They wished to create an on-boarding flow to establish a huge user base.

The client set forth the following expectations for the platform:

- Integration with Auth0 for on-boarding
- Integration with Cronofy to sync user's calendars
- Integration with payment gateways like STRIPE
- Providing user functionality to save their debit/credit cards with payment gateways
- Refactor the version 1 code written in JQuery and integrate it in version 2 for online classes.
- Keep away the latency issues while online class session and avoid unnecessary delays

### Solution

Keeping the unique requirements of the platform in consideration, ISHIR developed an end-to-end solution for VoiceLessons with extensive functionalities for prospective teachers and students. The teachers could register and login, set their availability, set the lesson hourly rates and accept the scheduled lessons. On the other hand, students could view the teacher and their availability with the hourly rates schedule the lessons for desired duration and pay for the lesson time. The ISHIR team implemented STRIPE with split payment feature in the application to manage the payments. The solution is deployed on AWS to make the site robust and scalable.

Tech Stack: Bootstrap 4, Angular 5, .NET – C#, SCSS, Web API, Entity Framework 6.0, Azure, SQL Server 2014, Angular Material.

## Some of the key features of the platform:

### Courses provided by Teachers

The screenshot displays the ISHIR platform interface for a teacher's profile. At the top left, the 'VOICE LESSONS' logo is visible. The teacher's profile for Ronda Swanson, from 'THE SONG & DANCE COMPANY', is shown with a 5-star rating. A 'BOOK LESSON' button is present, with a note 'Accepting new students'. Navigation tabs for 'OVERVIEW', 'COURSES', and 'REVIEWS' are at the bottom of the profile section. The main content area is divided into a left sidebar and a main grid of courses. The sidebar includes 'Personalized vocal lessons with 15 years of experience', 'AVAILABILITY' (Accepting new students, Ages 15+, Offers solo lessons, Offers group lessons), 'VOCAL STYLES' (Pop, Classical, Opera, Folk), 'VOCAL TYPE' (Soprano), and 'MUSICAL WORSHIP' (Baptist). The main grid, titled 'Courses Taught by Ronda Swanson', contains five course cards: 'Vocal Training 101' (\$99, Beginner, 12 lessons, 5 hours), 'Vocal Training 201' (\$129, Medium, 13 lessons, 6 hours), 'Vocal Training 301' (\$129, Difficult, 12 lessons, 6 hours), 'Opera Singing Basics' (\$99, Beginner, 12 lessons, 5 hours), and 'Singing in Italian' (\$229, Difficult, 13 lessons, 11 hours). Each card includes a description and a 'SHARE' button.

## Teacher sets up Lesson Rates

Settings

- ACCOUNT
- RATES**
- COUPONS
- PAYMENTS

### My Lesson Rates

DURATION	PRICE	
60 minutes	\$60.00	
90 minutes	\$90.00	

[+ ADD NEW](#)

## Teacher creates Discount Coupons

The screenshot shows the VOICE LESSONS app interface. On the left is a navigation menu with options: Settings, ACCOUNT, RATES, COUPONS (highlighted), and PAYMENTS. The main area is titled 'My Coupons' and contains a table of existing coupons. An 'Add New Coupon' modal is open in the center, allowing the user to create a new coupon with the following fields:

- COUPON CODE:** Text input with placeholder 'Eg. NEWSTUDENTS'
- DURATION:** Dropdown menu with 'Each student can use once' selected
- DISCOUNT:** Text input with a dropdown menu set to 'Percent off lesson'
- EXPIRATION:** Dropdown menu with 'Doesn't expire' selected

A 'DONE' button is located at the bottom right of the modal. The background table shows the following coupon details:

COUPON CODE	DISCOUNT	EXPIRATION	USE	
GET5OFF	5% off	Never	1x per student	
			Unlimited	
			Up to 20x	
			Up to 50x	
			Unlimited	

## Track Payments

☰ VOICE LESSONS
🗨️ 🔔 👤

Settings

⚙️ ACCOUNT

📄 RATES

🎫 COUPONS

**📅 PAYMENTS**

### Payments

✓ CONNECTED
Powered by **stripe**
STRIPE ACCOUNT: abcdefg123456

#### Payment History (112)

09/04/2017 📅
09/18/2017 📅

🔍 Search payment history

🖨️ ⬇️

< SEPTEMBER 2017 >

SU	MO	TU	WE	TH	FRI	SA
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

		AMOUNT	STATUS
	MAIL	\$225.00	✔️ Sent
	mail@emailaddress.com		<a href="#">Print receipt</a>
	RATES		
	September 1-30, 2017		
	250.00		
	Coupon '25OFF'	-\$25.00	
	<b>Total</b>	<b>\$225.00</b>	
	8/26/17 Payment	-\$225.00	<a href="#">Stripe</a> ➔
	<b>\$0.00 Owed</b>		<span style="background-color: #e91e63; color: white; padding: 2px 5px; border-radius: 3px;">REFUND</span>

Date	Name	Amount	Status
8/26/17	Alicia Silverstone	\$70.00	✔️ Sent
8/25/17	Rodney Gillespie	\$300.00	✔️ Sent
7/25/17	Dan Brown	\$225.00	✔️ Sent
7/25/17	Alicia Silverstone	\$70.00	✔️ Sent
7/25/17	Rodney Gillespie	\$300.00	✔️ Sent

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## Test Voice Range

### 1. RANGE TEST START

The Next button should turn their mic on in browser.

Vocal Range Test

Before we get started, we need to test your vocal range so we can customize your course. Make sure you're in a quiet area and click the button below to turn on your mic and begin the test.

NEXT →

### 4. HIGHEST NOTE NOTE - IN PROGRESS

As the user continues singing (either higher or lower), a rainbow bar fills between the initial note and the current note. This process is the same for highest or lowest note.

Sing upwards until you hit your highest note, and then hold it.

C1 C2 C3 C4 C5 C6 C7

CURRENT NOTE LOWEST NOTE HIGHEST NOTE

-- F1 E5

NEXT →

### 2. LOWEST NOTE - START

Next, the student sings their lowest note. This is what it looks like when they have not yet started singing. The Next button is at reduced opacity until the lowest note is captured.

Sing upwards until you hit your lowest note, and then hold it.

C1 C2 C3 C4 C5 C6 C7

CURRENT NOTE LOWEST NOTE HIGHEST NOTE

-- -- --

NEXT →

### 5. TEST COMPLETE

The users test result display at the top and then they click Complete to propagate the results into their course, blog post, cart items, etc.

Your vocal range is **F1-E5.**

We will now customize your course to suit your vocal range.

✓ COMPLETE

### 2. LOWEST NOTE - IN PROGRESS

When the user first sings a note, it lights up in Green. The mic icon in the top left lights up green whenever there is sound coming into the microphone.

Sing upwards until you hit your lowest note, and then hold it.


C1 C2 C3 C4 C5 C6 C7




CURRENT NOTE LOWEST NOTE HIGHEST NOTE

F1 F1 --







NEXT →

## User's Dashboard



Lesson starts in 14 minutes
JOIN




Explore


-  SCHEDULE
-  STUDENTS
-  LESSON HISTORY
-  LESSON BUILDER
-  LIBRARY
-  COURSES

View Profile


Edit Profile

Teacher Index

Settings







**\$1,024**  
EARNED THIS MONTH







**\$9,587**  
EARNED THIS YEAR


TODAY'S SCHEDULE | 10.20.17 View Full Schedule

9:00 - 10:00am	 Allison Cassels	Actions ▾
10:30 - 11:30am	 Jamie Chen <span style="color: red;">▲ Lesson starting soon</span>	Actions ▾
12:15 - 2:15pm	 Giorlando Rodrigues	Actions ▾
4:00 - 5:00pm	 Mark Garrett	Actions ▾

RECENT PAYMENTS RECEIVED View Payment History

 Mark Garrett	<b>\$150</b>	3 days ago
 Caleb Castillo	<b>\$200</b>	3 days ago
 Ann Hunter	<b>\$90</b>	10 days ago
 Florence Hanson	<b>\$240</b>	15 days ago

RECENT FEEDBACK View All



★★★★★

"Ms. Swanson is the best voice tutor I've ever had. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mol."

ALLISON C | 10/01/2017








PROFILE COMPLETION

38%

COMPLETE PROFILE

- PERSONAL DETAIL
- CALENDER SYNC
- UPDATE AVAILABILITY
- CONNECT PAYMENT

STUDENTS View All

-  Allison Cassels
-  Erin Watson
-  Lindsay Benson
-  Giorlando Rodrigues
-  Jamie Chen
-  Mark Garrett
-  LaRosa Smith

Jamie Chen
✕