

ITIS 4/5166 Network-Based Application Development Fall 2018

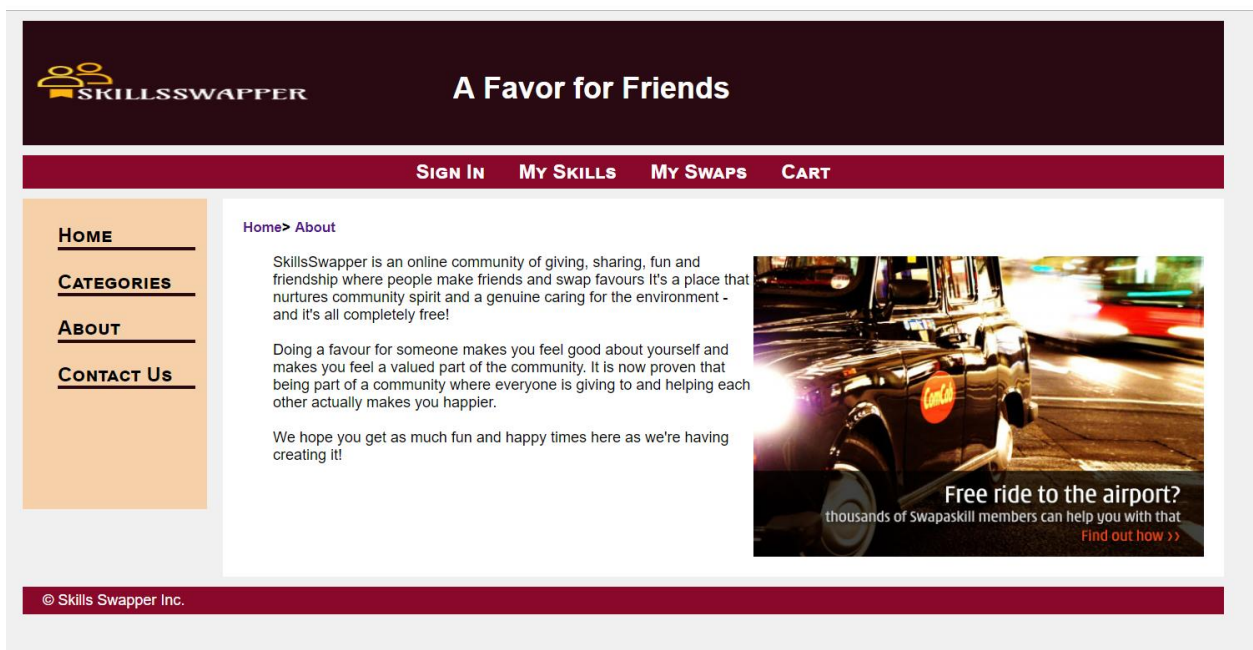
User Manual

Project:



Using NodeJS and MongoDB

Overview



SkillsSwapper is a great website where you can trade in your own skills in exchange for the skills of other users. In return for painting a bedroom, designing a website, or partaking in some cat sitting for another user, you might be able to learn that skill you've always wanted to learn but didn't have the cash to fund the teaching. Upload list what your skills are as well as all the skills you're on the hunt for. If you see anyone you'd like to swap a skill with, just message them – it's as simple as that!

This will create an offer request for the skill which another user will approve if he wishes to accept that offer or reject it if he doesn't want to swap it. This application also provides user with an option of giving feedback in the form of rating to the swapped item and its owner. User can also give rating to its own available item.

The target market for the application is the common people who are willing to help others and get the help from others for free by serving their own skills to others.

To get started, general users can quickly register for a user account to swap the items with other users. Now, search for skills you wish to swap your skill with, which are listed on website by other users.

If you find any skill you wish to have, make an offer to swap it with your any available skill. This will send the request to the other user.

Now the other user can either accept or reject this swap request.

This application also provides user with an option to provide feedback. User can provide ratings for their own items and items of other users they swapped and to the users they swapped with.

Technology

Skills Swapper is built using NodeJS and MongoDB database for data storage and maintenance. It uses EJS pages for the presentation, routes for the controller and JavaScript data objects for the business logic. As such, application echoes the Model- View- Controller pattern of software development for modular development and maintenance of code.

Additional features

SkillsSwapper also offers session management for its users, so users can conveniently access the application and get a personalized feel when they navigate across the various web pages in the application. The application uses **Bcrypt** hashing technique for the password security.

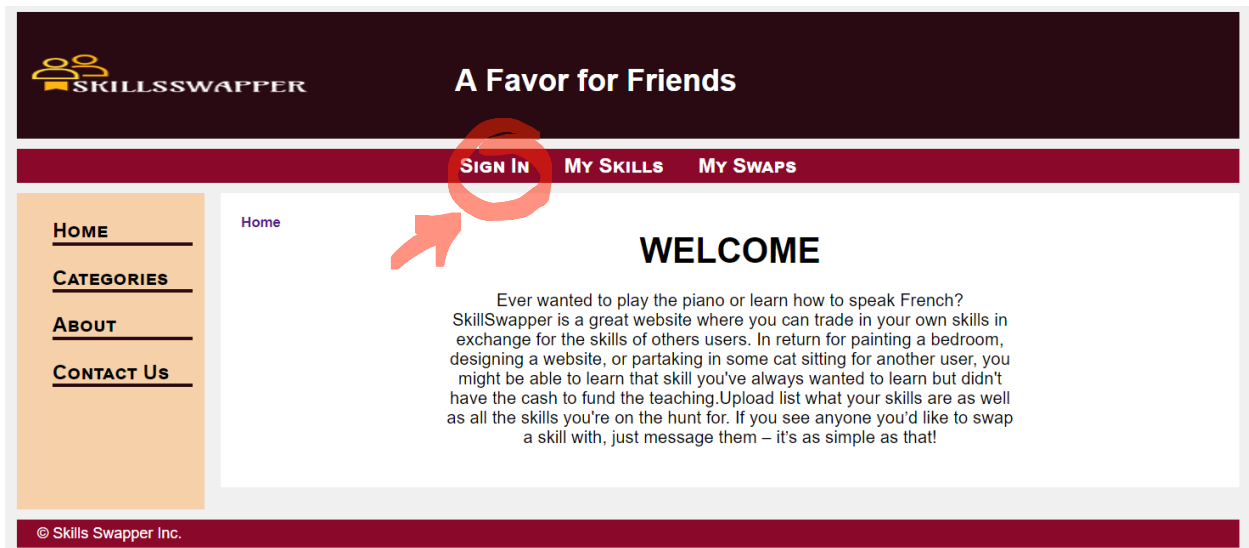
Scenario 1: Registration of a user

Problem: User trying to create a Customer Account.

Context: User is on Home Page.

Solution:

- 1) From the home page, click on Sign In Button on the user-navigation bar at the top of page.



- 2) Click on Register Here link on Sign In Page.

SKILLSSWAPPER A Favor for Friends

SIGN IN **MY SKILLS** **MY SWAPS**

HOME
CATEGORIES
ABOUT
CONTACT Us

Login

Email:

Password:

Sign In

Don't have an account? [REGISTER HERE](#)

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- 3) On the Register page fill out all the fields using valid input to prevent error message from the application and click on register button.

SKILLSSWAPPER A Favor for Friends

SIGN IN **MY SKILLS** **MY SWAPS**

HOME
CATEGORIES
ABOUT
CONTACT Us

Registration

First Name:

Last Name:

Email Address:

UserID:

Password:

Address1:

Address2:

City:

State:

PostCode:

Country:

Register

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- 4) Click the “Register” button to be redirected to the My Items page once your account is created. You can see your user Id, on the right top corner. Sign In hyperlink will now be changed to Sign Out button as you logs in.

SKILLSSWAPPER A Favor for Friends

Welcome vsinha

SIGN OUT My SKILLS My SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home > My Skills


Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	<button>Update</button>	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	<button>Update</button>	<button>Delete</button>

Legend swap offer available ☒ already swapped

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If you're not on the myItems page and you see something like the following, it means you entered some invalid input.

 **A Favor for Friends**

[SIGN IN](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

Registration

First Name: **Field should have alphabets**

Last Name: **Field should have alphabets**

Email Address: **Please enter a valid email address**

UserID:

Password:

Address1:

Address2:

City:

State:

PostCode: **Invalid value**

Country:

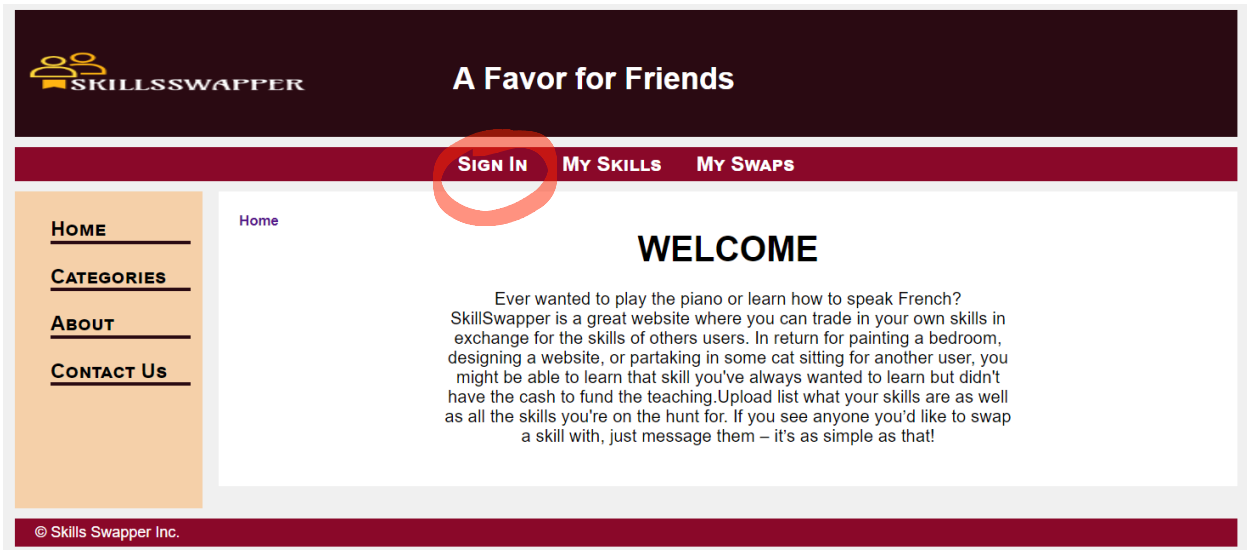
Scenario 2: Signing in to your account

Problem: Registered user trying to Sign In their account.

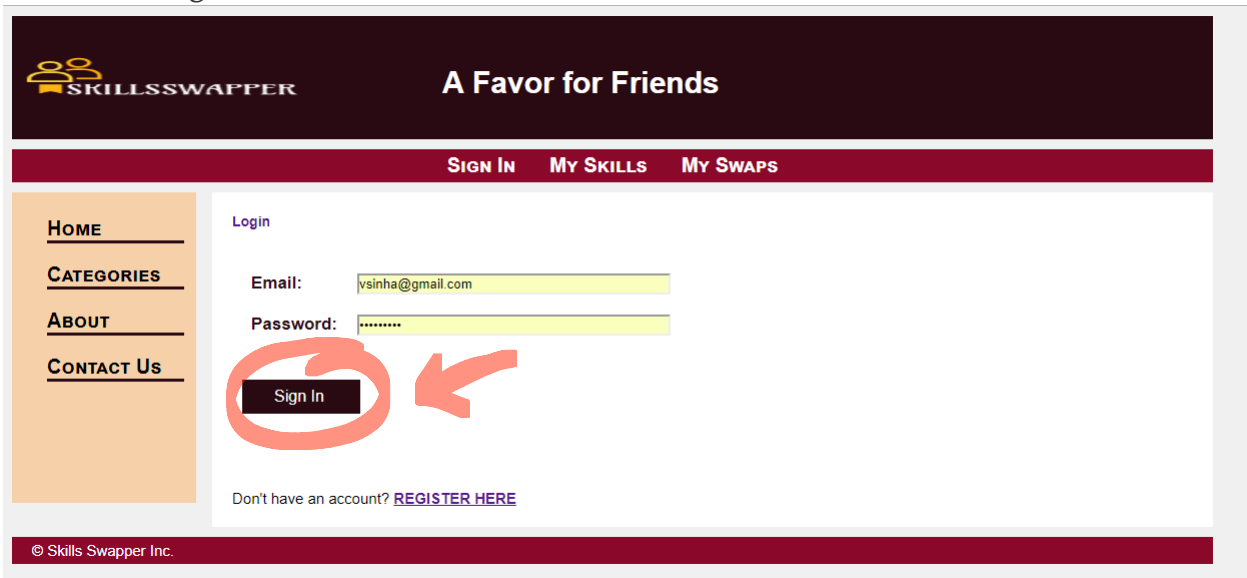
Context: User is on Home Page.

Solution:

- 1) From the home page, click on Sign In Button on the user-navigation bar at the top of page.



- 2) You are on the Sign In page, sign in using your registered email Id and Password and click on the sign in button



- 3) You will be redirected to My Skills page once you signed In successfully. You can see your user Id, on the right top corner. Sign In hyperlink will now be changed to Sign Out button.

SKILLSSWAPPER A Favor for Friends

Welcome vsinha

[SIGN OUT](#) [My SKILLS](#) [My SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

Home > My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	Update	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	Update	Delete

Legend swap offer available already swapped

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If you used some wrong email id or password which is not yet registered with the site, or the incorrect password, you will get a below error.

SKILLSSWAPPER A Favor for Friends

[SIGN IN](#) [My SKILLS](#) [My SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

Login

Email:

Password:

[Sign In](#)

Invalid username or password

Don't have an account? [REGISTER HERE](#)

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Scenario 3: Send an offer request to another user to swap your skill with him/her**Problem:** User wants to offer his/her skill with another user.**Context:** User has an account now and is logged-in and has some of its own skills with which he can trade off.**Solution:**

- 1) User is on my skills page of the application.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us


Home > My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	Update	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	Update	Delete

Legend ★ swap offer available ☒ already swapped

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- 2) There are different operations which you can perform on this page.
Clicking the Update button if the status of your item is available, will redirect to the catalog category page showing the skills which belong to other users.

 **A Favor for Friends** Welcome vsinha


[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
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[Home > My Skills](#)

Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	<button>Update</button>	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	<button>Update</button>	<button>Delete</button>

Legend  swap offer available ☒ already swapped

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 **A Favor for Friends** Welcome vsinha

[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

[Home > Categories](#)

Language

English Language
French Language

Computer

Web/UX developer
Microsoft Office
Programming Languages - Java

Music

Piano

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- 3) Select any of the skills from this category list you wish to swap your skills with.
- a) If you have already swapped that skill already, following message will appear.

The screenshot shows the Skills Swapper website interface. The header includes the logo, the title 'A Favor for Friends', and a welcome message 'Welcome vsinha'. The navigation bar has links for 'SIGN OUT', 'MY SKILLS', and 'MY SWAPS'. The left sidebar contains links for 'HOME', 'CATEGORIES', 'ABOUT', and 'CONTACT Us'. The main content area displays a skill profile for 'Jiana Roy', a 'Web/UX developer' in the 'Computer' category, with an average rating of three stars. The profile includes a bio and a list of offerings. A red circle highlights the message 'You have already swapped this item!' and a 'Rate it' button.

SKILLSSWAPPER

A Favor for Friends

Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

Home > Categories > Item

HOME CATEGORIES ABOUT CONTACT Us

Jiana Roy

Offerings: Web/UX developer

Category: Computer

Average Rating: ★ ★ ★

I have 3 years of experience in the field of UX developer for Senamen Corportation in New York. Worked on 200+ web properties built with both single page application development and standard multi-page web development Set technical direction for JavaScript application development, including feature development forecasting and scheduling Design and develop enhancements to the client-side framework. I am willing to help others to teach the same.

You have already swapped this item!

★ Rate it

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- b) If you have already offered that item in past, you will get the following message:

The screenshot shows the Skills Swapper website interface. The header includes the logo, the title 'A Favor for Friends', and a welcome message 'Welcome vsinha'. The navigation bar has links for 'SIGN OUT', 'MY SKILLS', and 'MY SWAPS'. The left sidebar contains links for 'HOME', 'CATEGORIES', 'ABOUT', and 'CONTACT Us'. The main content area displays a skill profile for 'Jiana Roy', a 'English Language' category, with an average rating of three stars. The profile includes a bio and a list of offerings. A red circle highlights the message 'You have an offer to swap' and a 'See the offer' link.

SKILLSSWAPPER

A Favor for Friends

Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

Home > Categories > Item

HOME CATEGORIES ABOUT CONTACT Us

Jiana Roy

Offerings: English Language

Category: Language

Average Rating: ★ ★ ★

I am a journalist who spent the last 17 years in the most senior editorial positions at The New York Times, I served as Washington Bureau Chief, Managing Editor and Executive Editor. Before joining the Times, I spent nine years at The Wall Street Journal as the Deputy Washington Bureau Chief and an investigative reporter covering money and politics. I am also a member of the American Academy of Arts & Sciences and The American Philosophical Society. I am willing to teach and help people with the English language.

You have an offer to swap .. [See the offer](#)

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- c) If you haven't 'offered' or 'swapped' that item in past, then only you will get an option to Swap it.

The screenshot shows the Skills Swapper website interface. At the top, the logo "SKILLSSWAPPER" is on the left, and "A Favor for Friends" is in the center. A "Welcome vsinha" message is on the right. Below the header, there are navigation links: "SIGN OUT", "MY SKILLS", and "MY SWAPS". On the left side, there is a sidebar with links: "HOME", "CATEGORIES", "ABOUT", and "CONTACT Us". The main content area shows a user profile for "Mathew Haden". The profile includes a header with the name and a red circular profile picture. Below the name, it says "Offerings: French Language". The category is "Language" and the average rating is "★★★★". A bio follows: "I am an experienced French teacher, with an MA in French Language. I pursued my studies at the Greater University in Paris, lived in France for many years, and have more than ten years of teaching experience teaching French to adults with extraordinary results. My lessons are focused, fun, and engaging, and they guarantee success. I am willing to teach and help people who are interested to learn French language." Below the bio, there is a red-bordered box containing a "Swap It" button. To the left of the profile, there is a list of items with French and English labels and corresponding colored icons: "rouge" (red), "orange" (orange), "jaune" (yellow), "vert" (green), and "bleu" (blue). The footer of the page says "© Skills Swapper Inc."

Now, when you click the Swap it button, all your available items(skills) will be displayed as shown:

The screenshot shows the Skills Swapper website interface after clicking the "Swap It" button. The header and navigation links remain the same. The sidebar is also the same. The main content area shows the user profile for "Mathew Haden" with the same bio and rating. Below the bio, there is a red-bordered box containing the text "Select an item from your available swaps" and a radio button next to the word "Singing". To the right of this box, there is a red-bordered box containing a "Confirm Swap" button. The footer of the page says "© Skills Swapper Inc."

Now if you select your available item from the list of items, then the request will be sent to the user who owns that particular skill.

Click on the Confirm swap will redirect you to the My Skills Page.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT My SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home> My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	<button>Update</button>	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	<button>Update</button>	<button>Delete</button>

Legend swap offer available already swapped

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Scenario 4: Accept or Reject an offer request made by another user.

Problem: User wants to accept the offer made by other user in order to agree or disagree with the swap offer made.

Context: User has swap offers which you might have done.

Solution:

- 1) User is on My Skills Page after he logs in and sees the pending offer he has from another user.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home> My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Pending	Update	
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	Update	Delete

Legend \$ swap offer available ✓ already swapped

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- 2) Clicking on the Update button here will redirect the user to the My Swaps page where he sees 2 option - Accept/Reject.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home> My Swaps
Skills for Swap

Skills	Swap Offer	
German Language	English Language	Accept Reject

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Accept- If user accepts the offer then the user will be redirected to My Skills page with the swapped status being shown for that particular skill.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home> My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Swapped		
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	<button>Update</button>	<button>Delete</button>


Legend swap offer available already swapped

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Reject - If user rejects the offer then the user will be redirected to My Skills page with the status of that item as available which will be shown on the Skills page.

- 3) If the user wants to offer his skills to other user then he will click on the update button(corresponding to the item which has status as Available) and select any of the category as shown in the above snapshots and select his particular skill and click on swap button.

Status of that item will change from Available to pending.

 **A Favor for Friends** Welcome vsinha


[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)


[Home > My Skills](#)

Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Swapped		
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	Update	Delete

Legend  swap offer available ☒ already swapped

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 **A Favor for Friends** Welcome vsinha

[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

[Home > Categories](#)

Language

English Language

French Language

Computer

Web/UX developer


Microsoft Office

Programming Languages - Java

Music

Piano

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 SKILLSSWAPPER

A Favor for Friends

Welcome vsinha

SIGN OUTMY SKILLSMY SWAPS


HOME

CATEGORIES

ABOUT

CONTACT US

Home> Categories> Item



Mathew Haden

Offerings: Piano


Category: Music

Average Rating: ★ ★ ★ ★

Nothing is better than playing to real music! So you'll get custom play-alongs to help you apply specific skills PLUS full-song breakdowns of popular music so you can play-along to your favorite tunes and I am here to teach you as much as I can.

Swap It

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 SKILLSSWAPPER

A Favor for Friends

Welcome vsinha

SIGN OUTMY SKILLSMY SWAPS


HOME

CATEGORIES

ABOUT

CONTACT US

Home> Categories> Swap



Mathew Haden

Offerings: Piano

Category: Music

Average Rating: ★ ★ ★ ★


Nothing is better than playing to real music! So you'll get custom play-alongs to help you apply specific skills PLUS full-song breakdowns of popular music so you can play-along to your favorite tunes and I am here to teach you as much as I can.

Select an item from your available swaps

☒ Singing

Confirm Swap

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 **A Favor for Friends** Welcome vsinha


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[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT US](#)

[Home > My Skills](#)

Skills for Swap

Skills	Category	My Rating	Swapped
German Language	Language	★ ★ ★	Swapped
Guitar	Music	★ ★ ★ ★	Swapped
Singing	Music	★ ★ ★ ★ ★	Offered

Legend  swap offer available ☒ already swapped

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Scenario 5: Withdraw the offer request made by him.

Problem: User wants to withdraw the offer request he made to other user.

Context: User has already made an offer request.

Solution:

- 1) User is on My Skills Page and he can see his skill with the status as Offered.

 **A Favor for Friends** Welcome vsinha


[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

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[CATEGORIES](#)
[ABOUT](#)
[CONTACT US](#)

[Home > My Skills](#)

Skills for Swap

Skills	Category	My Rating	Swapped
German Language	Language	★ ★ ★	Swapped
Guitar	Music	★ ★ ★ ★	Swapped
Singing	Music	★ ★ ★ ★ ★	Offered

Legend  swap offer available ☒ already swapped

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- 2) Clicking the Update button will redirect to My Swaps page, where user can see the withdraw option.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home > My Swaps
Skills for Swap

Skills	Swap Offer	
Singing	Piano	Withdraw

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- 3) On clicking the withdraw button. The offer will be withdrawn, and status of that item will again be updated to 'Available' from 'Offered'

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT Us

Home > My Skills
Skills for Swap

Skills	Category	My Rating	Swapped
German Language	Language	★ ★ ★	Swapped
Guitar	Music	★ ★ ★ ★	Swapped
Singing	Music	★ ★ ★ ★ ★	Available

Legend swap offer available ☒ already swapped

© Skills Swapper Inc.

Scenario 6: User wants to delete an item from the list.

Problem: User wants to delete an item from his list.

Context: User has a list of items uploaded by him with his profile.

Solution:

- 1) User is on the MY SKILLS page of his account and he can click on Delete button. That item will be deleted from the My Items list from user profile. This item will no longer be available in catalog category, to view by other users.

The screenshot shows the Skills Swapper website interface. The header includes the logo, the tagline 'A Favor for Friends', and the user name 'Welcome vsinha'. The navigation bar has links for 'SIGN OUT', 'MY SKILLS', and 'MY SWAPS'. The left sidebar contains links for 'HOME', 'CATEGORIES', 'ABOUT', and 'CONTACT Us'. The main content area is titled 'Skills for Swap' and displays a table with the following data:

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Swapped		
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	Update	Delete

Below the table, there is a legend: 'Legend' with a star icon for 'swap offer available' and a checked box icon for 'already swapped'. The footer shows '© Skills Swapper Inc.'.

Scenario 7: User wants to rate his own item.

Problem: User wants to rate his own item.

Context: User is logged in and is having some items listed in his profile/My Items.

Solution:

- 1) User can see all his items under the item column, listed in MyItems page:

Home> My Skills

Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Swapped		
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★ ★ ★ ★ ★	Available	<button>Update</button>	<button>Delete</button>

Legend: ★ swap offer available ☒ already swapped

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User clicks on that item to rate which has the status as Available. If it is not available status, then he cannot rate the item.

Clicking on the item with status as Available will redirect to myitem page.

Home> Categories> Item

Vikram Sinha

Offerings: Singing


Category: Music
Average Rating: ★ ★ ★ ★ ★

I have national singing experience and have won so many singing awards too. I can teach how to sing and help guide beginner singers through the early stages of vocal progression, assisting with pitch training, developing timbre and keeping steady tempo. My core philosophy is that the best way to gain musical proficiency is through performance-based music education. All of my programs include a performance aspect.

☆ Rate it


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User clicks on rate it button and following will be seen.

 **A Favor for Friends** Welcome vsinha

[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)


[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

[Home](#) > [Categories](#) > [Item](#)

Vikram Sinha
Offerings: Singing
Category: Music
Average Rating: ★ ★ ★ ★ ★
I have national singing experience and have won so many singing awards too. I can teach how to sing and help guide beginner singers through the early stages of vocal progression, assisting with pitch training, developing timbre and keeping steady tempo. My core philosophy is that the best way to gain musical proficiency is through performance-based music education. All of my programs include a performance aspect.

Rate your own item : [Submit Rating](#)

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Submitting the rating will be reflected on my skills page as well.


 **A Favor for Friends** Welcome vsinha

[SIGN OUT](#) [MY SKILLS](#) [MY SWAPS](#)

[HOME](#)
[CATEGORIES](#)
[ABOUT](#)
[CONTACT Us](#)

[Home](#) > [My Skills](#)
Skills for Swap

Skills	Category	My Rating	Swapped
German Language	Language	★ ★ ★	Swapped
Guitar	Music	★ ★ ★ ★	Swapped
Singing	Music	★	Available

Legend  swap offer available ☒ already swapped

© Skills Swapper Inc.

Scenario 8: User wants to give feedback to other users and their items, by giving them rating.

Problem: User wants to rate the items of other users and also want to rate that users with whom he successfully swapped an item

Context: User has already swapped an item successfully.

Solution: User has a swapped item in his list of items.

SKILLSSWAPPER A Favor for Friends Welcome vsinha

SIGN OUT MY SKILLS MY SWAPS

HOME
CATEGORIES
ABOUT
CONTACT US

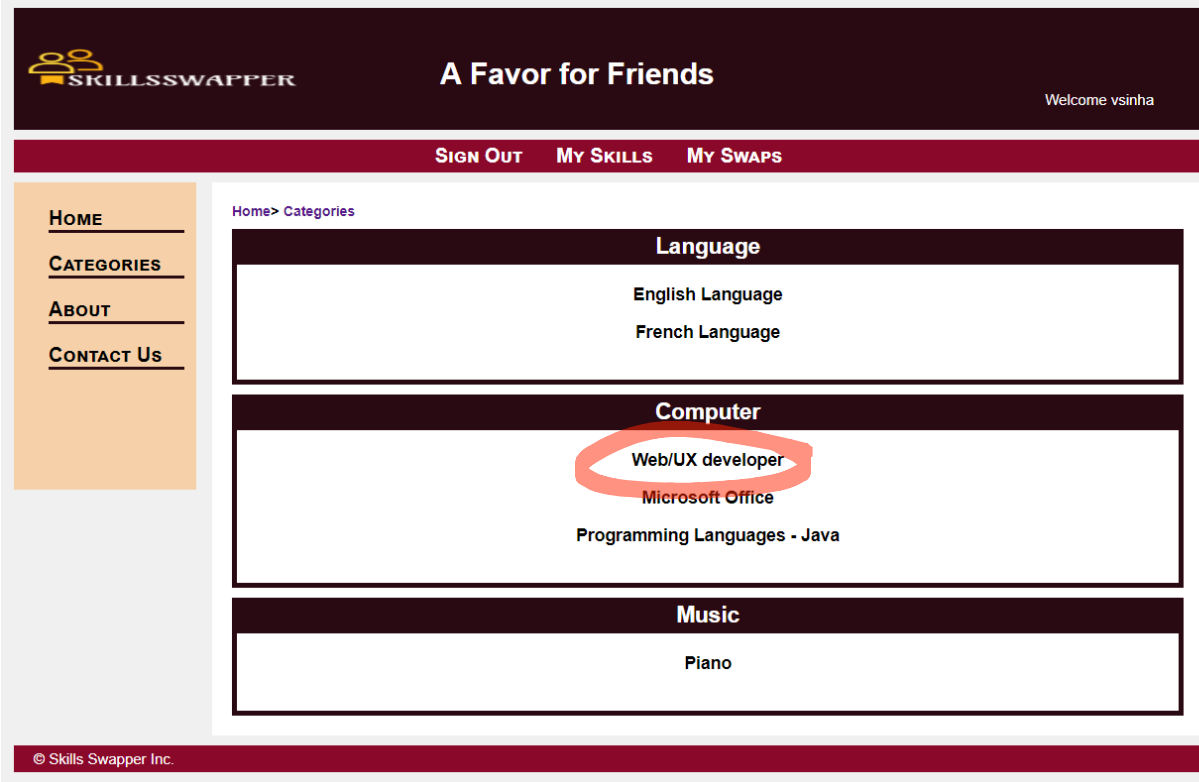
Home > My Skills
Skills for Swap

Skills	Category	My Rating	Swapped		
German Language	Language	★ ★ ★	Swapped		
Guitar	Music	★ ★ ★ ★	Swapped		
Singing	Music	★	Available	Update	Delete

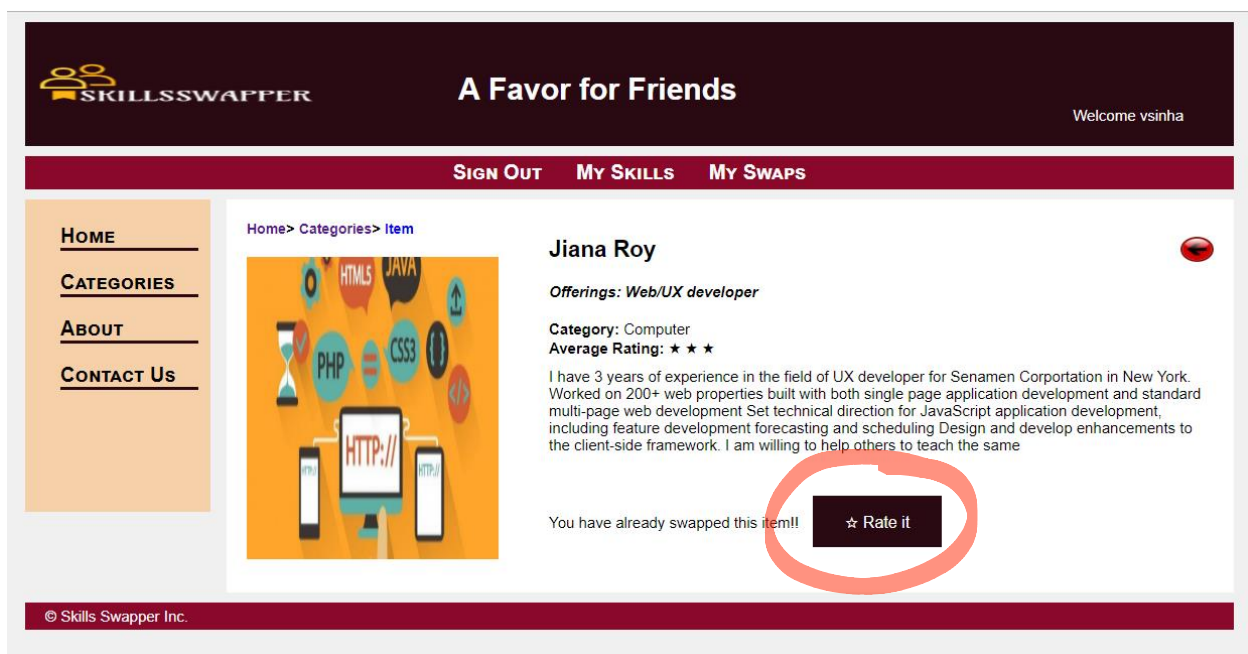
Legend swap offer available ☒ already swapped

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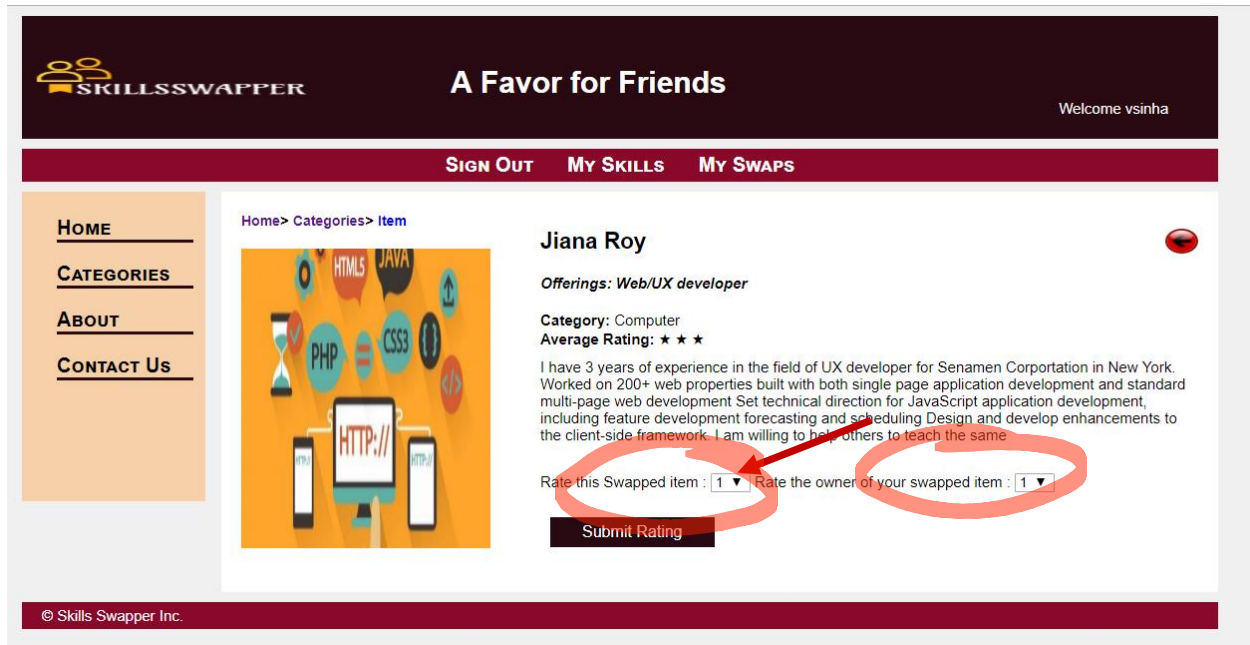
He will click on categories hyperlink from the site navigation panel and will select that item again, which he swapped in past.



There he will see the below message and an option to rate this item.



Click on “Rate It” button, and you will get two options to rate the item and the swapper as shown



Clicking the submit button will save the feedback in the feedback collection of the database as shown:

```
> db.feedback.find().pretty()
{
  "_id" : ObjectId("5c0b4dc6f43fb54cb0cc8898"),
  "offerID" : ObjectId("5c0b2633c468c1524035101b"),
  "swappedItemCode" : "C2S1",
  "swapperID" : "jroy",
  "userID" : "vsinha",
  "__v" : 0,
  "swappedItemRating" : 1,
  "swapperRating" : 1
}
{
  "_id" : ObjectId("5c0b51e4f43fb54cb0cc8d30"),
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  "swappedItemCode" : "C3S1",
  "swapperID" : "vsinha",
  "userID" : "jroy",
  "__v" : 0,
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}
>
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