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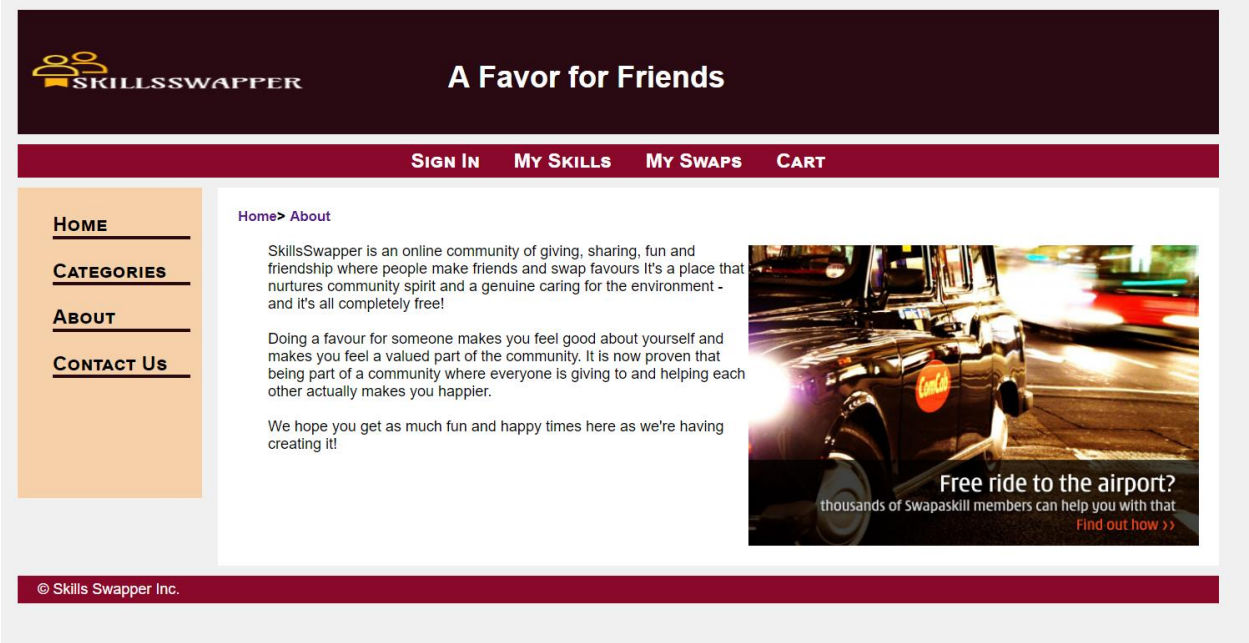
ITIS 4/5166 Network-Based Application Development Fall 2018

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.

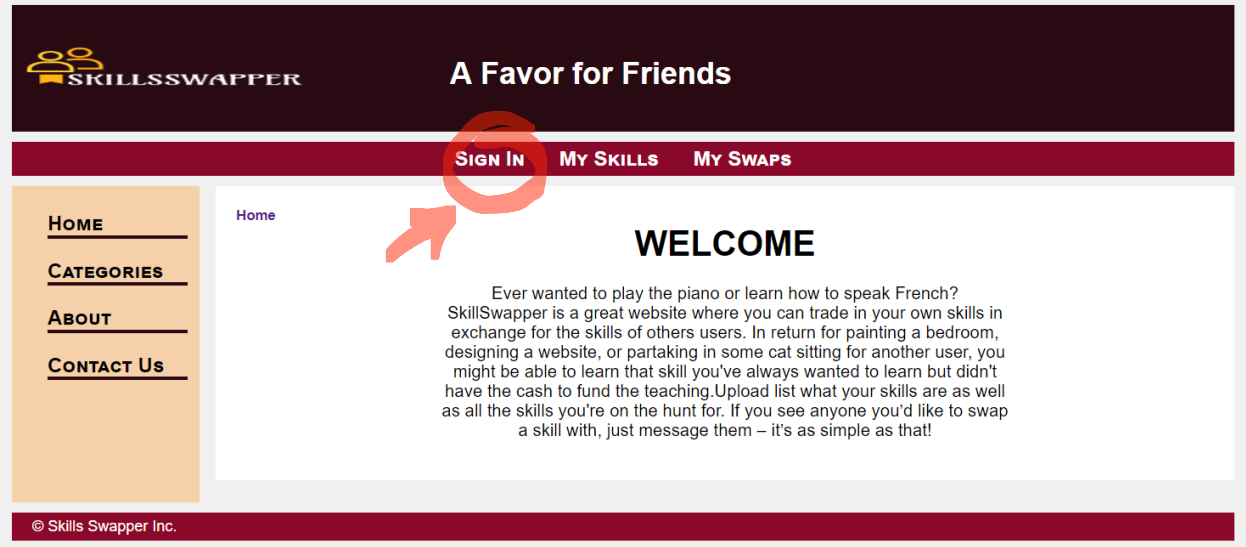
Additional features

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.

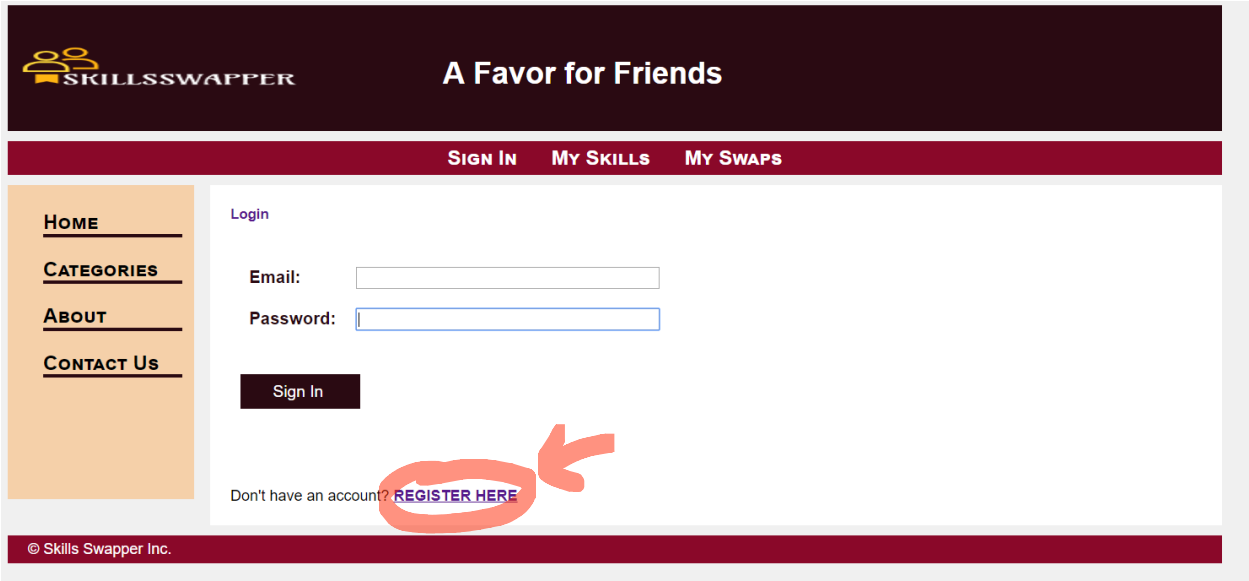
Scenario 1: Registration of a user

Problem: User trying to create a Customer Account.
Context: User is on Home Page.
Solution:

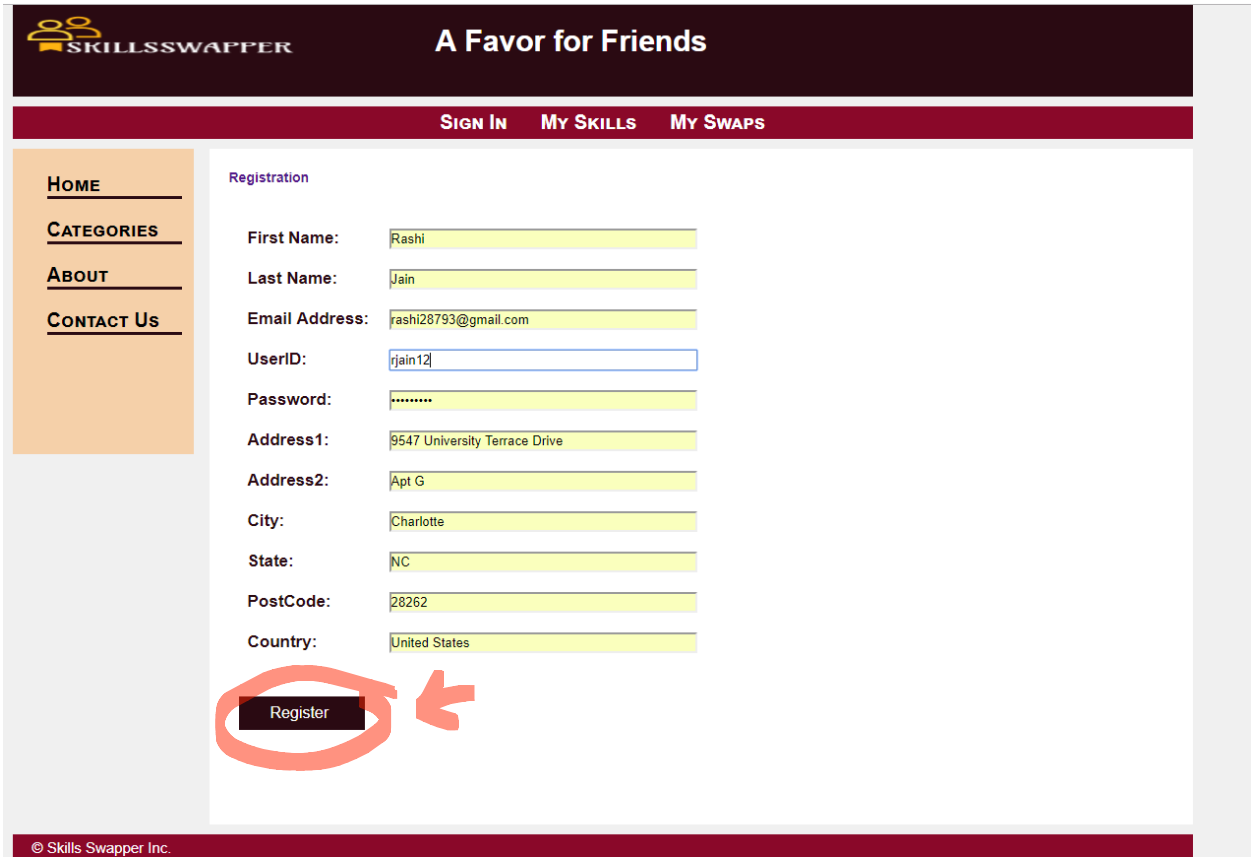
1) From the home page, click on Sign In Button on the user-navigation bar at the top of page.



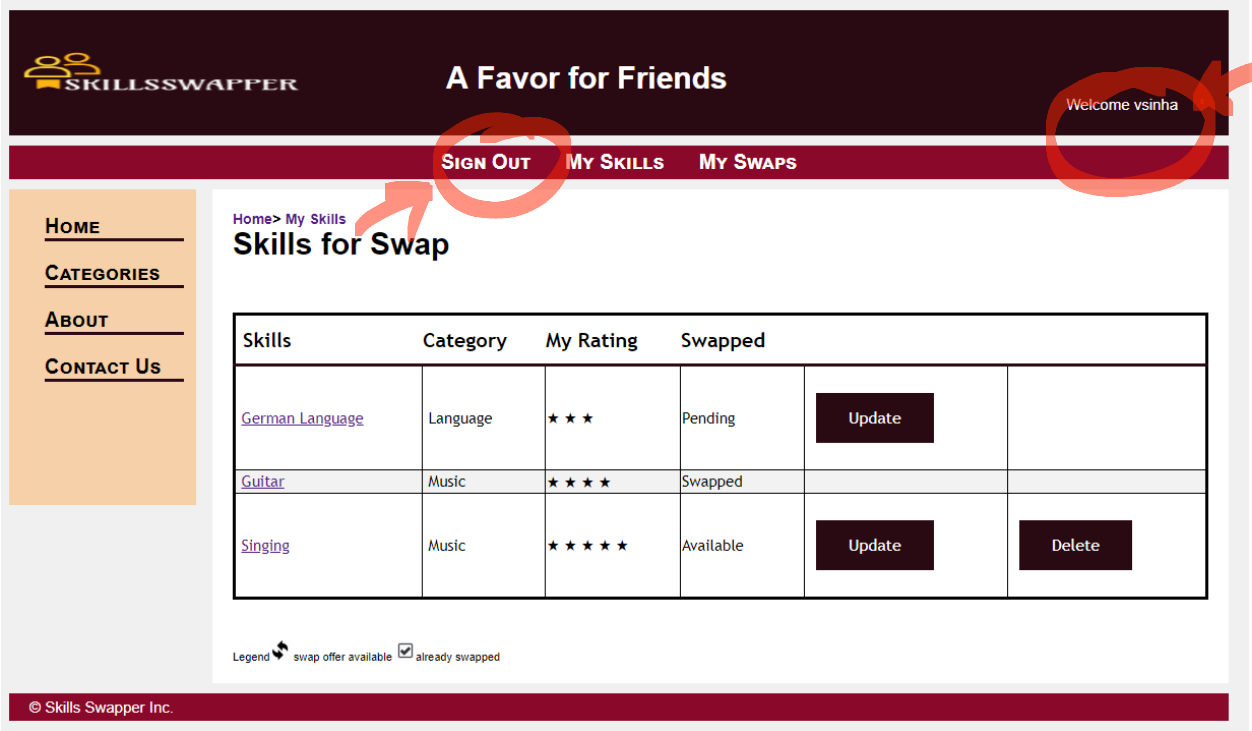
2) Click on Register Here link on Sign In Page.



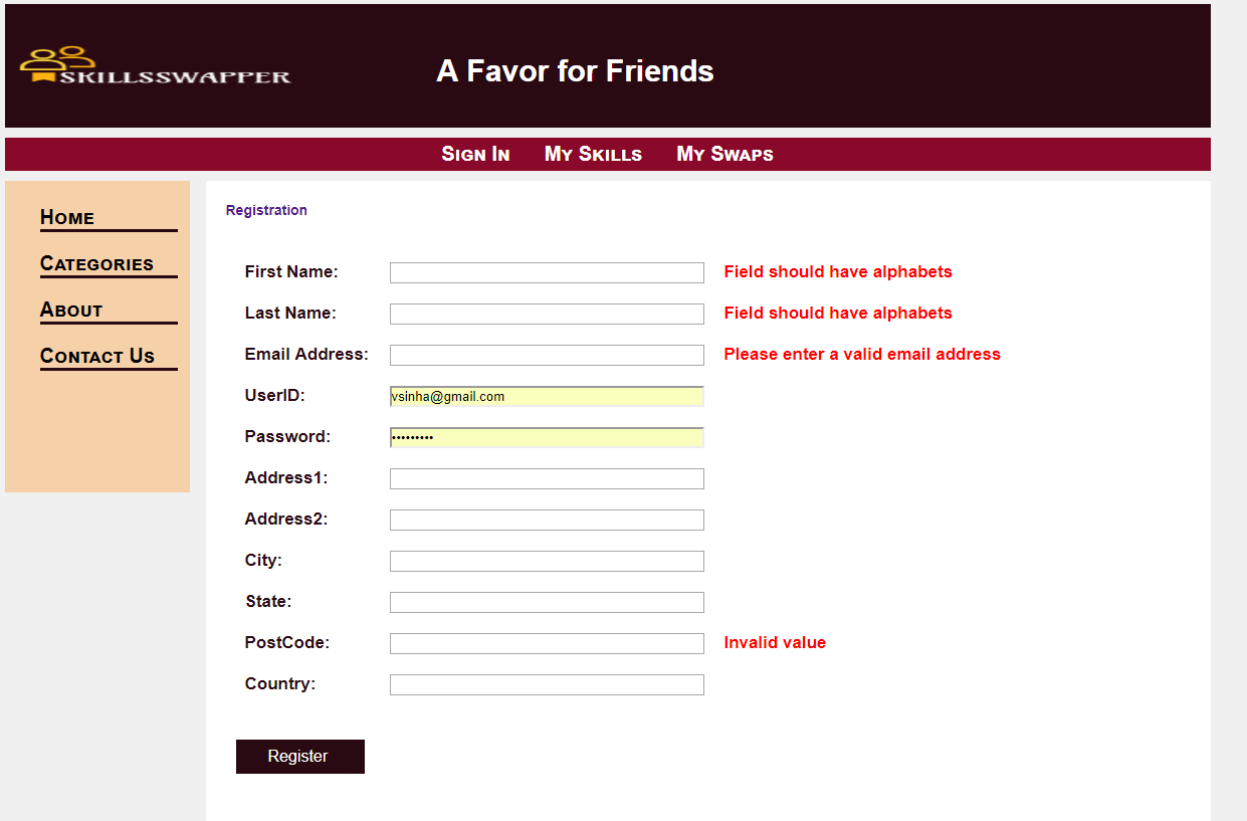
3) On the Register page fill out all the fields using valid input to prevent error message from the application and click on register button.



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.



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

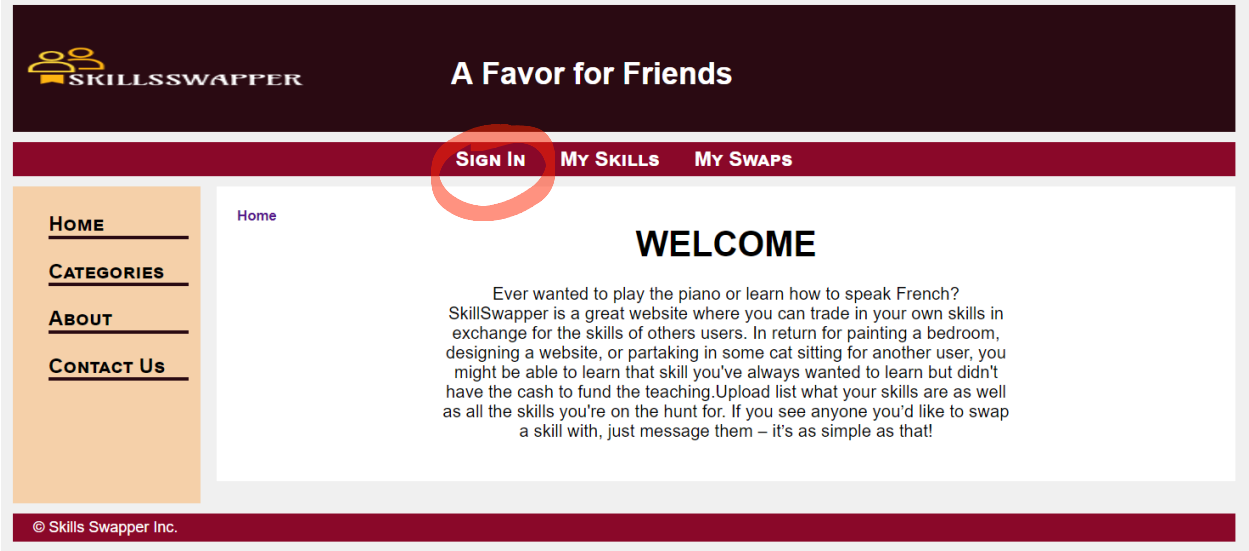


Scenario 2: Signing in to your account

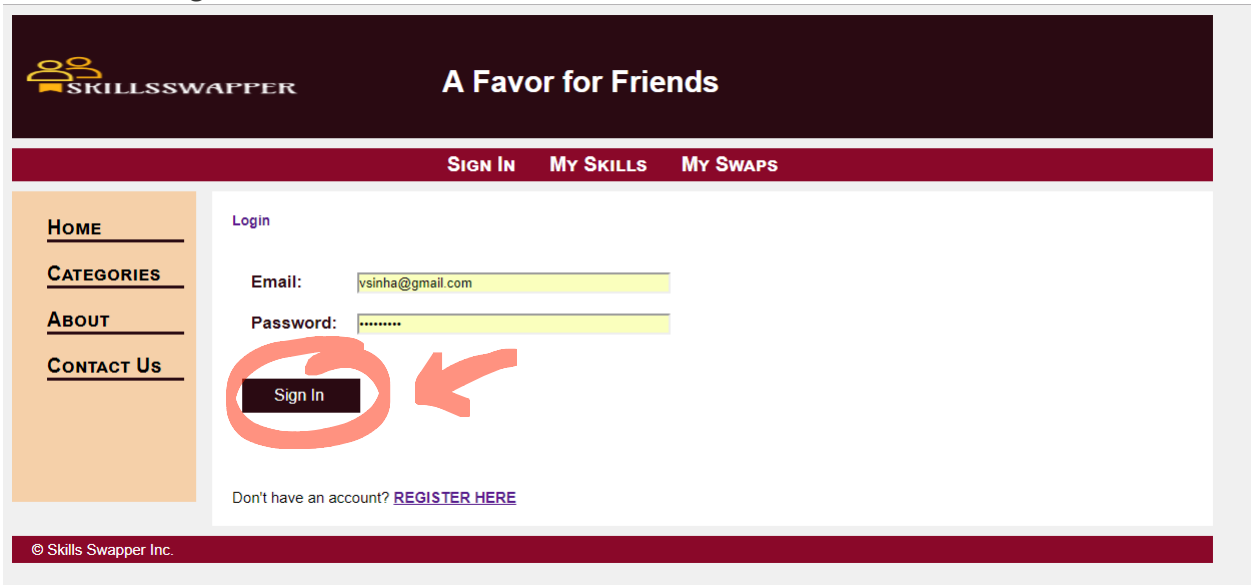
Problem: Registered user trying to Sign In their account.
Context: User is on Home Page.

Solution:

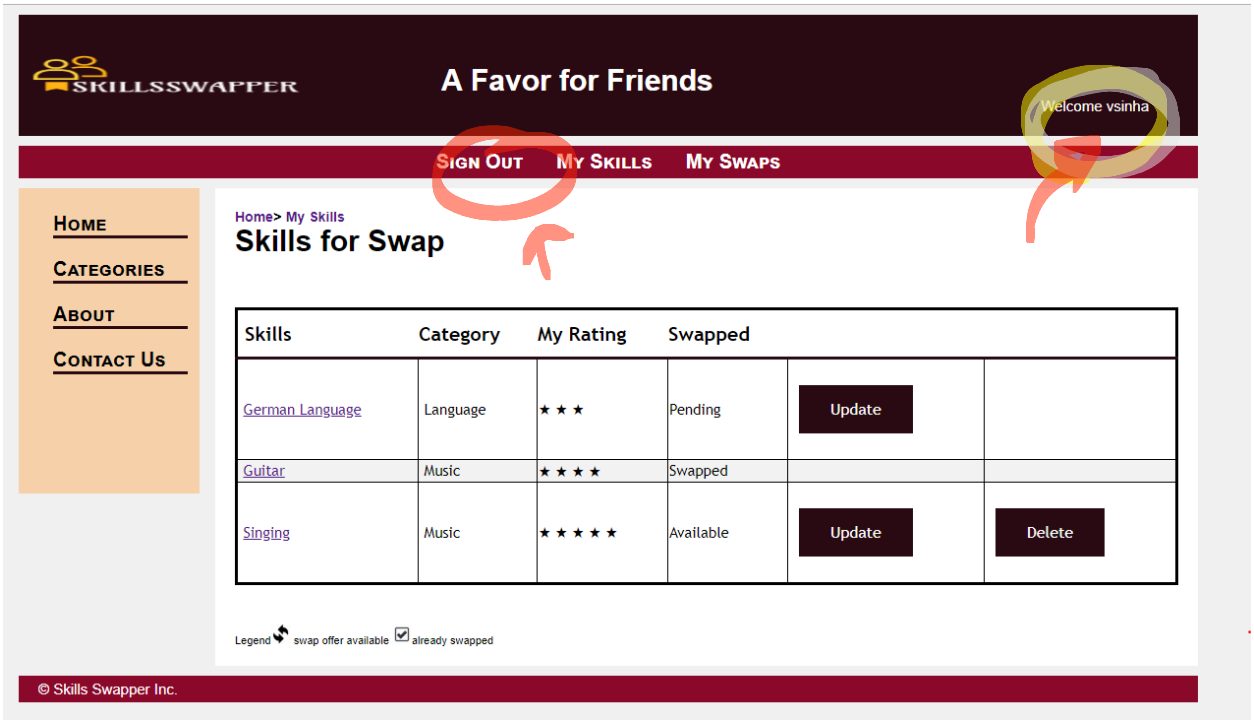
1) From the home page, click on Sign In Button on the user-navigation bar at the top of page.



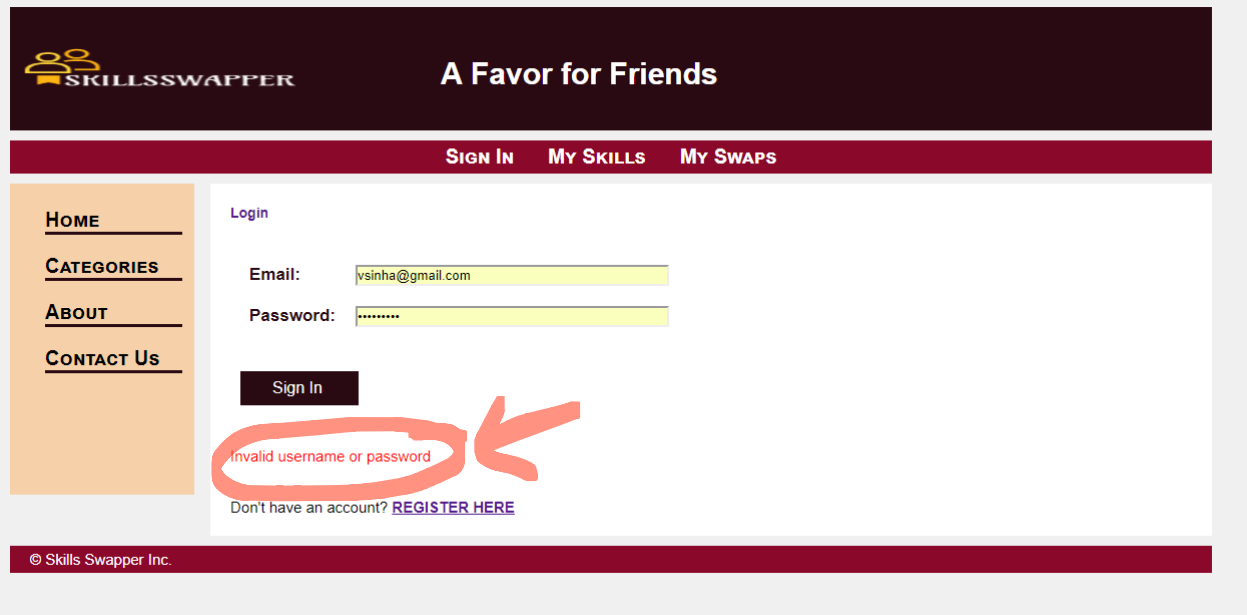
2) You are on the Sign In page, sign in using your registered email Id and Password and click on the sign in button



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.



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.



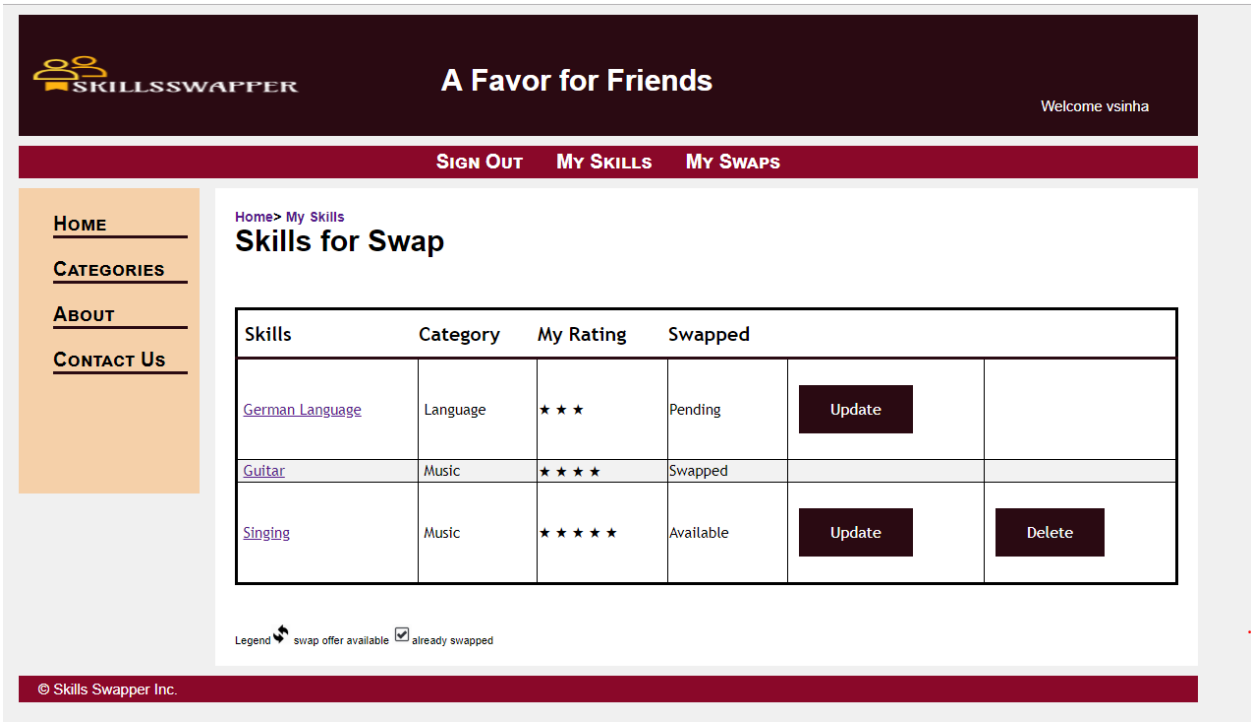
Scenario 3: Send an offer request to another user to swap your skill with him/her

Problem: User wants to offer his/her skill with another user.

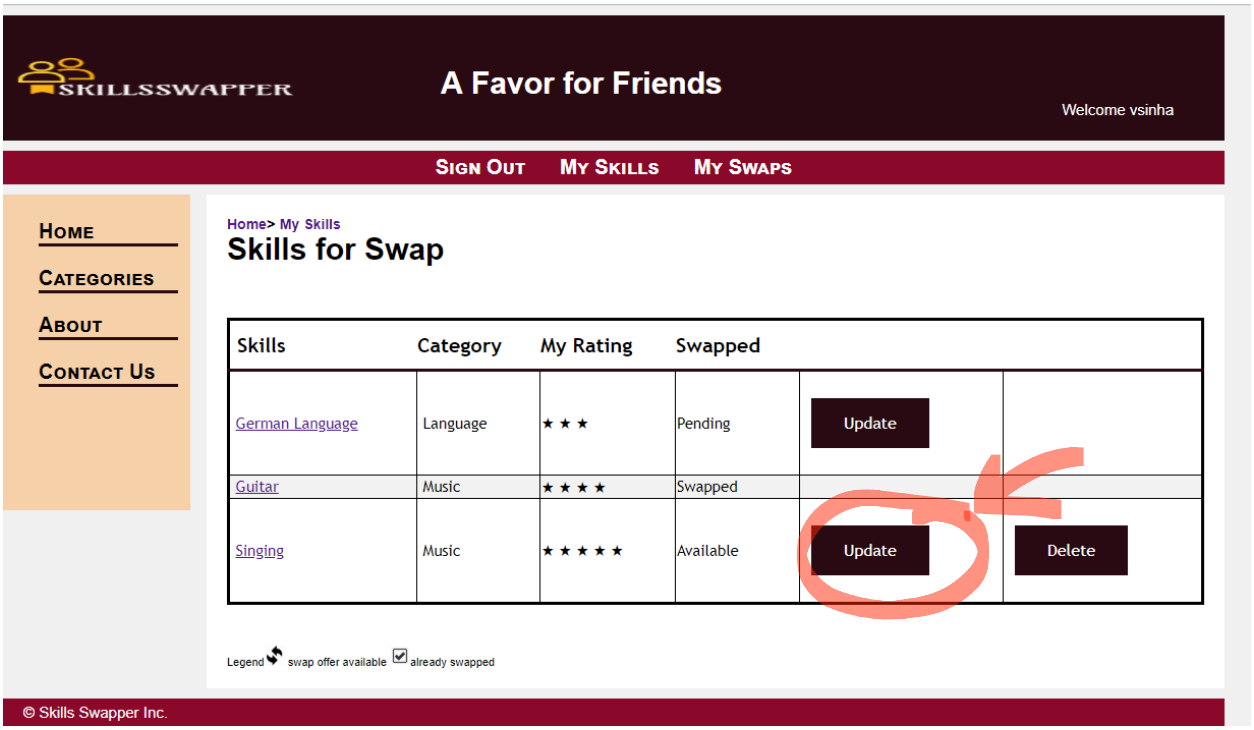
Context: User has an account now and is logged-in and has some of its own skills with which he can trade off.

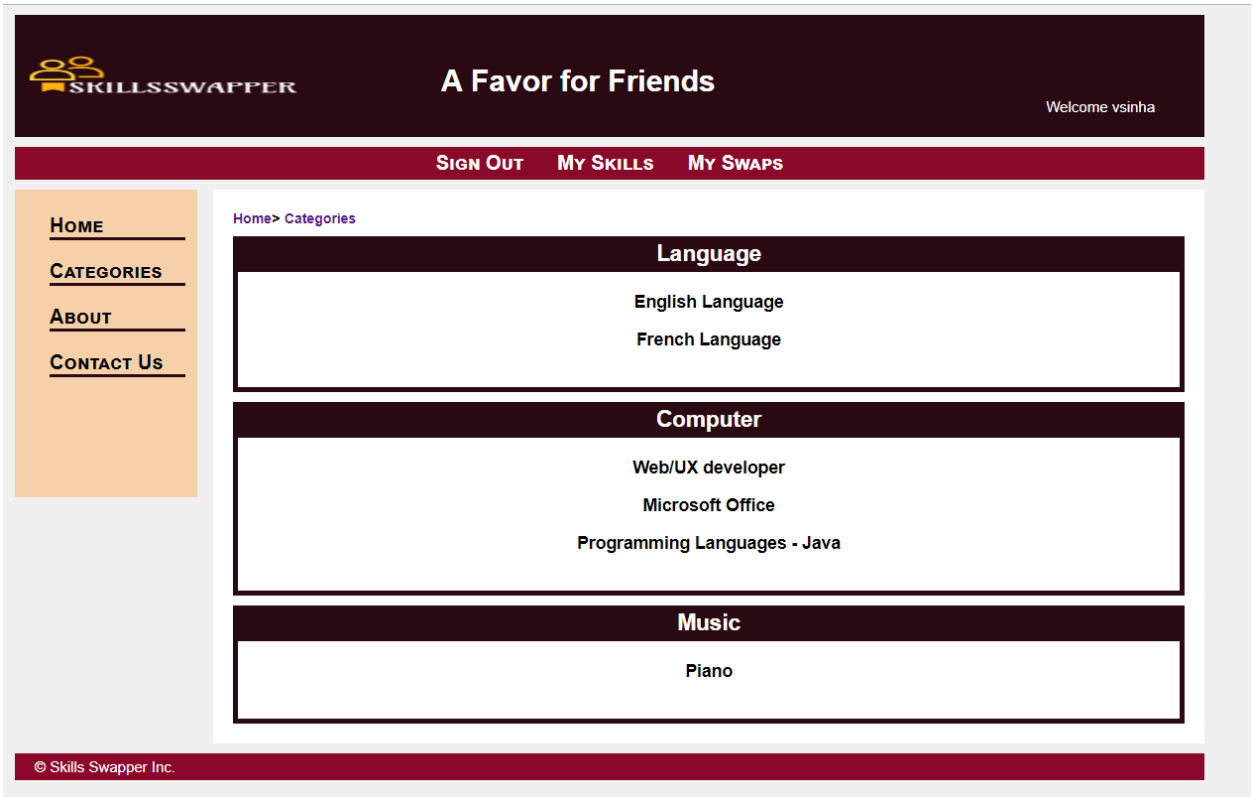
Solution:

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

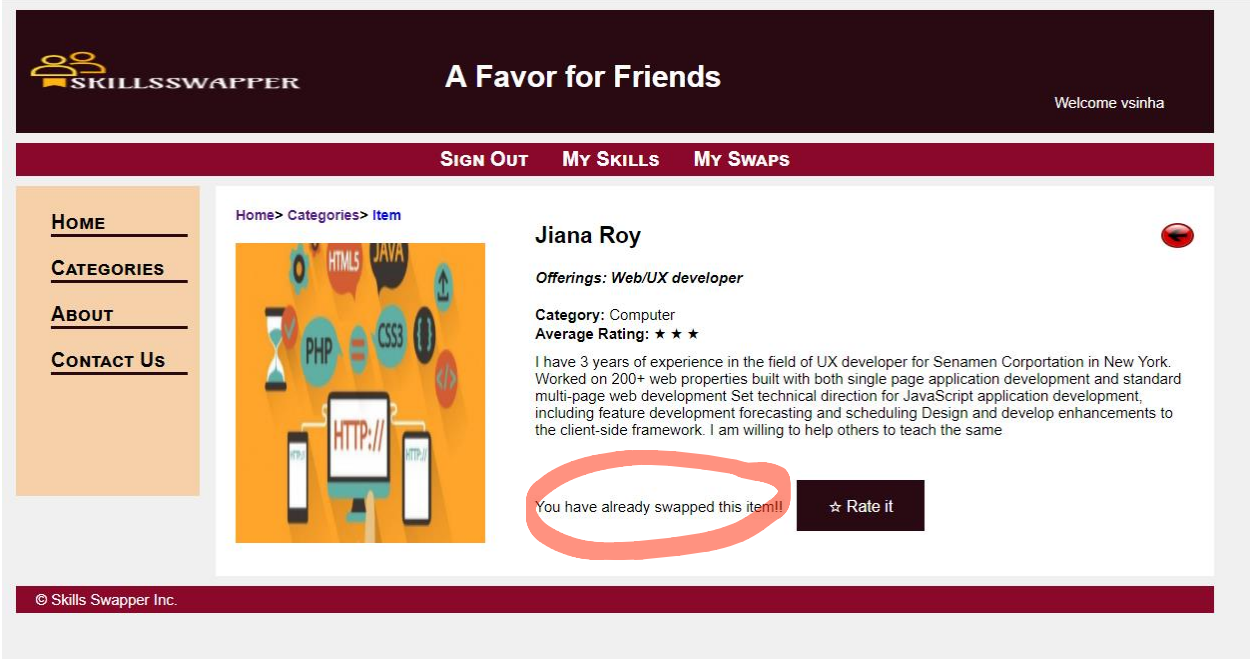


2) There are different operations which you can perform on this page.
Clicking the Update button if the status of your item is available, will redirect to the catalog category page showing the skills which belong to other users.

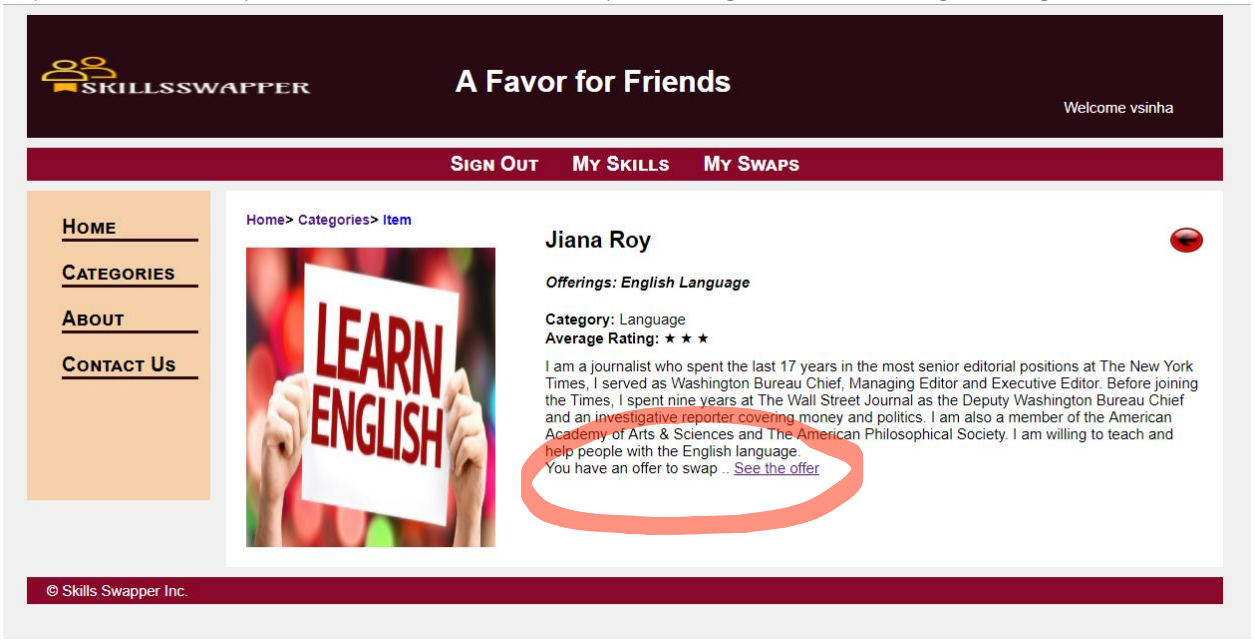

SKILLSSWAPPER
A Favor for Friends
Welcome vsinha
SIGN OUT
MY SKILLS
MY SWAPS
HOME
CATEGORIES
ABOUT
CONTACT US
Home> My Skills
Skills for Swap
Skills
Category
My Rating
Swapped
German Language
Language
★ ★ ★
Pending
Update
Guitar
Music
★ ★ ★ ★
Swapped
Singing
Music
★ ★ ★ ★ ★
Available
Update
Delete
Legend swap offer available already swapped
© Skills Swapper Inc.


SKILLSSWAPPER
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
© Skills Swapper Inc.

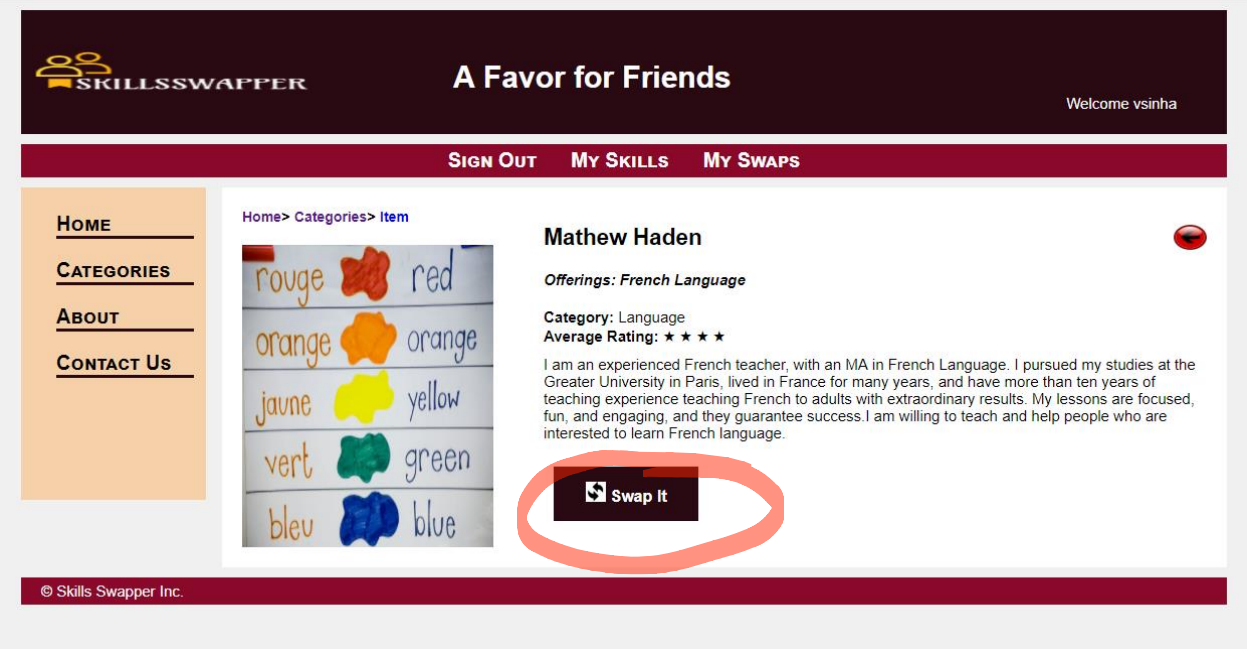
3) Select any of the skills from this category list you wish to swap your skills with.
   a) If you have already swapped that skill already, following message will appear.



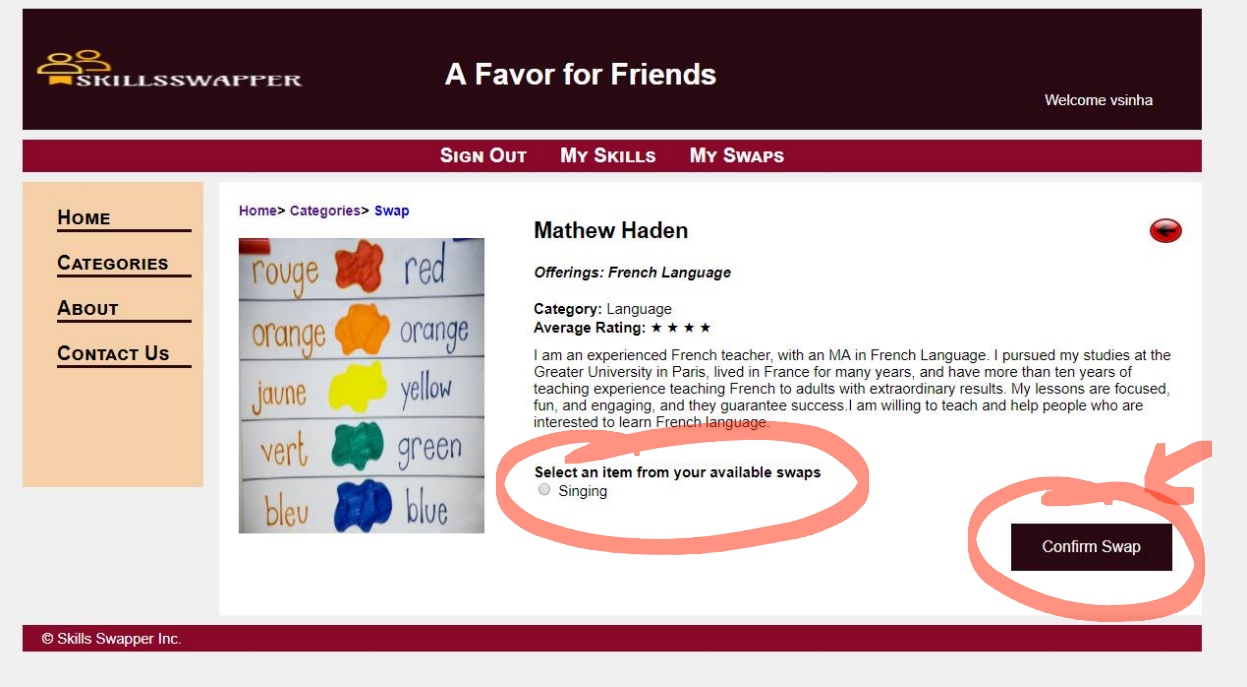
b) If you have already offered that item in past, you will get the following message:



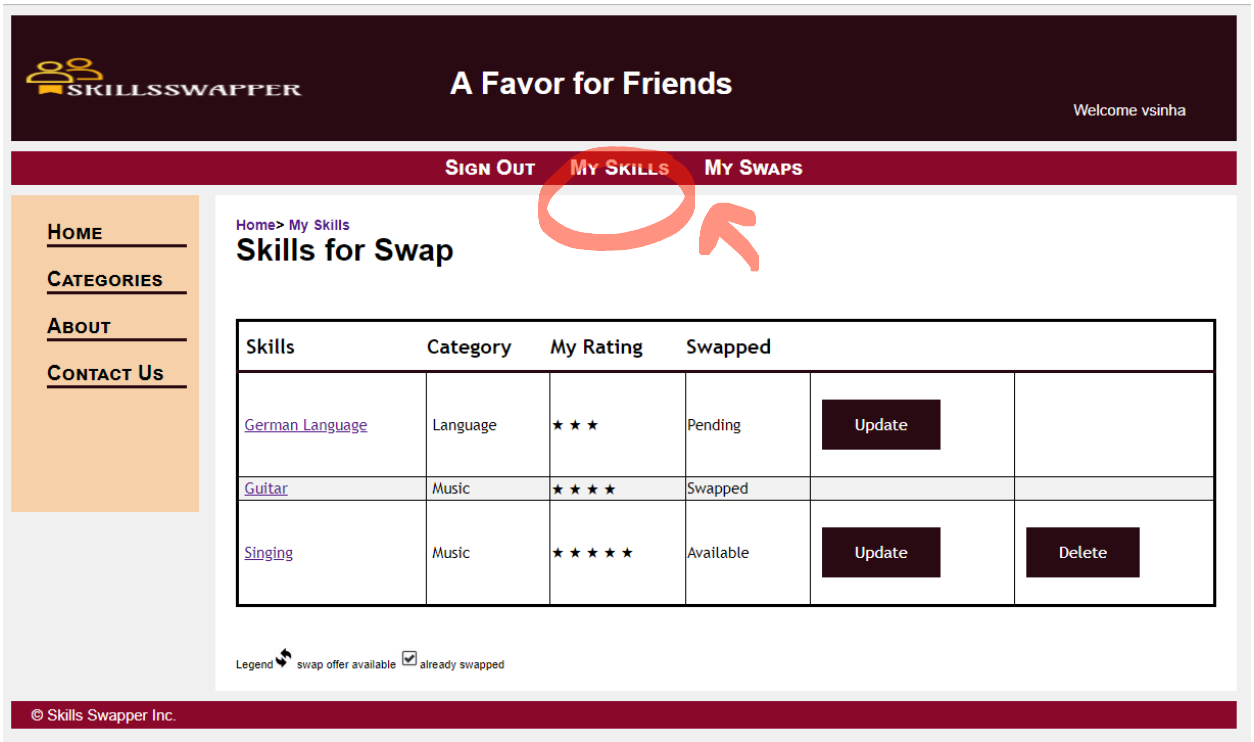
   c) If you haven't 'offered' or 'swapped' that item in past, then only you will get an option to Swap it.



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



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.



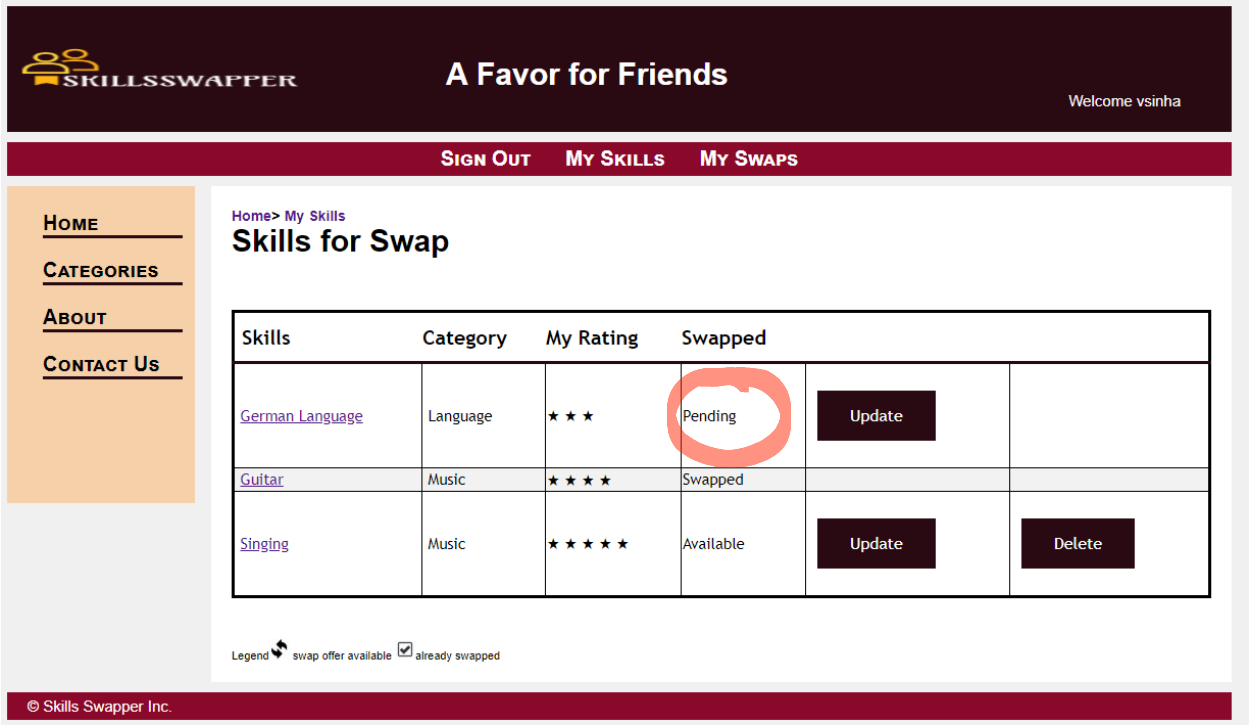
Scenario 4: Accept or Reject an offer request made by another user.

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

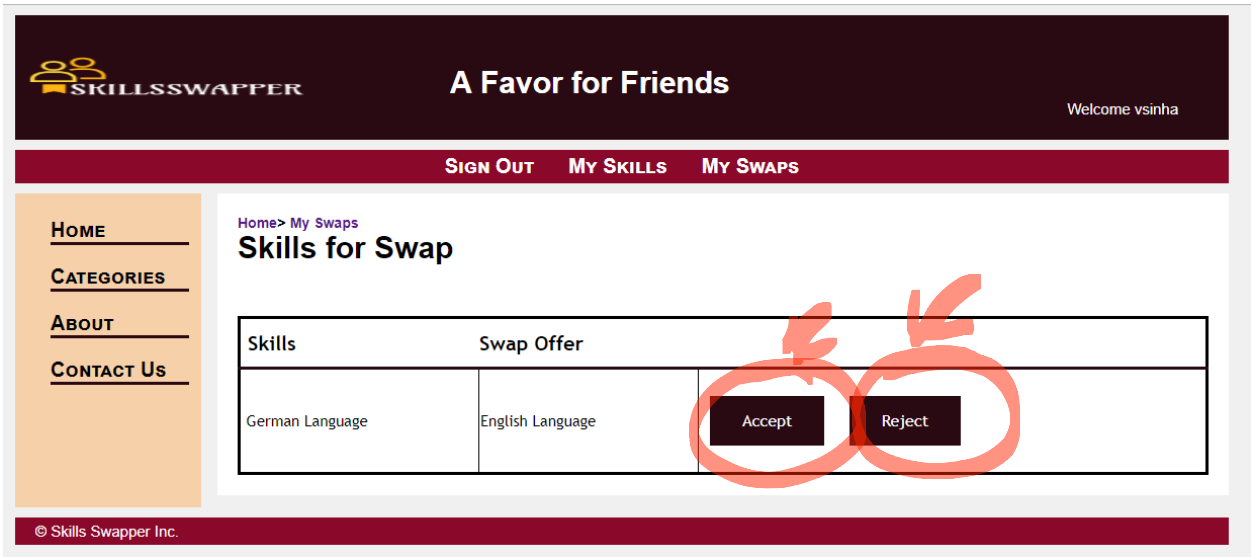
Context: User has swap offers which you might have done.

Solution:

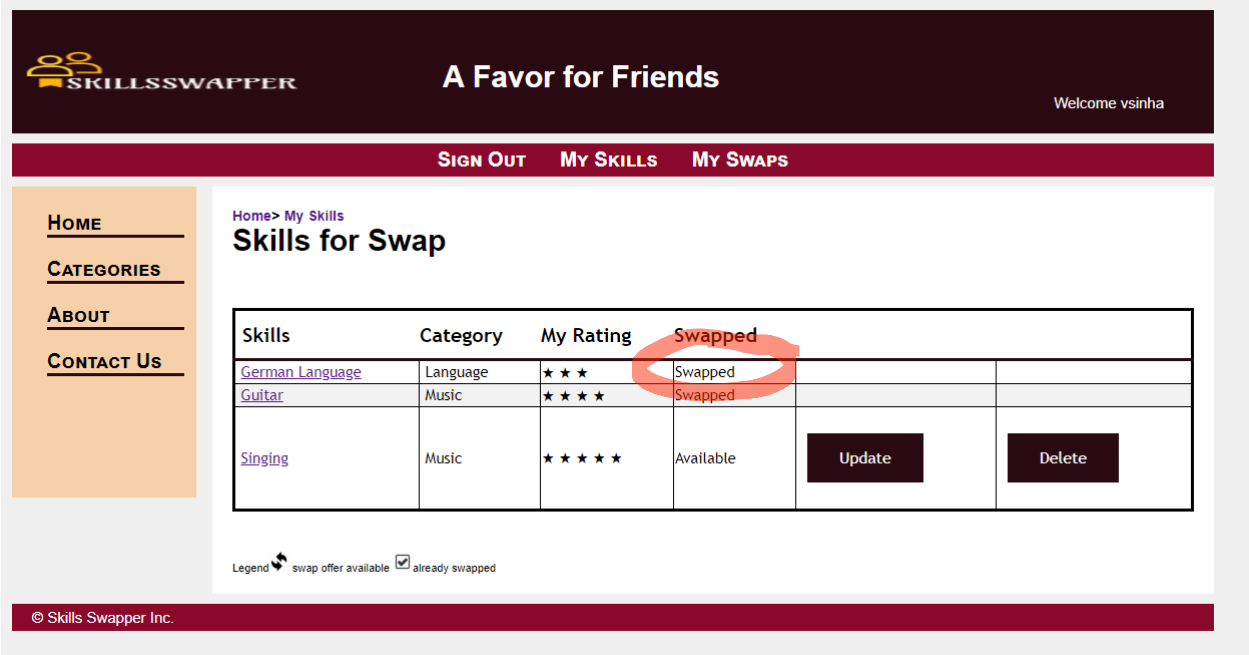
1) User is on My Skills Page after he logs in and sees the pending offer he has from another user.



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

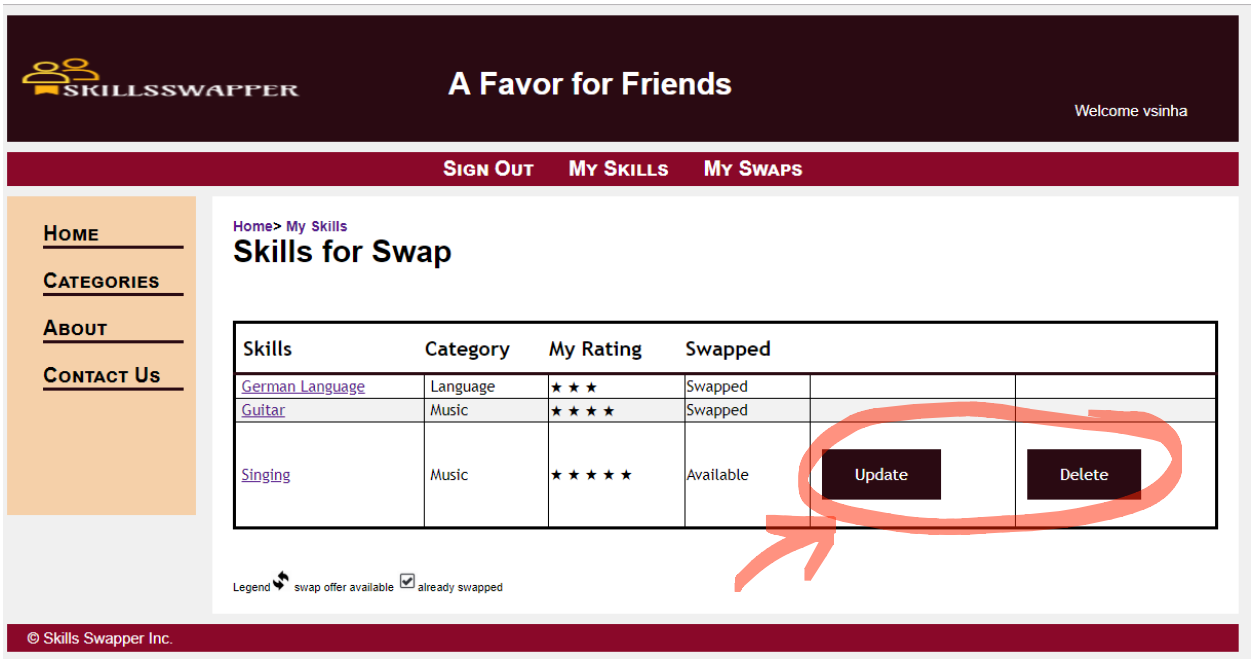


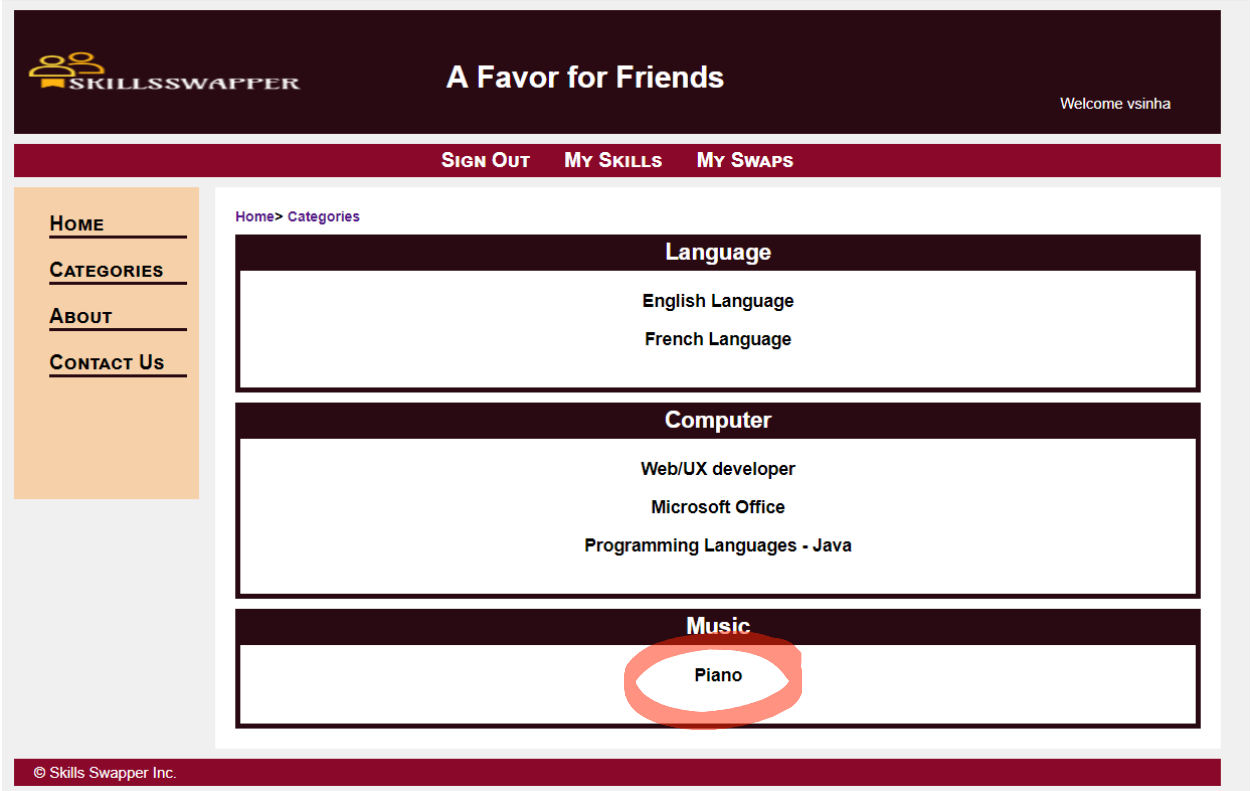
Accept- If user accepts the offer then the user will be redirected to My Skills page with the swapped status being shown for that particular skill.



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.


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
© Skills Swapper Inc.


SKILLSSWAPPER
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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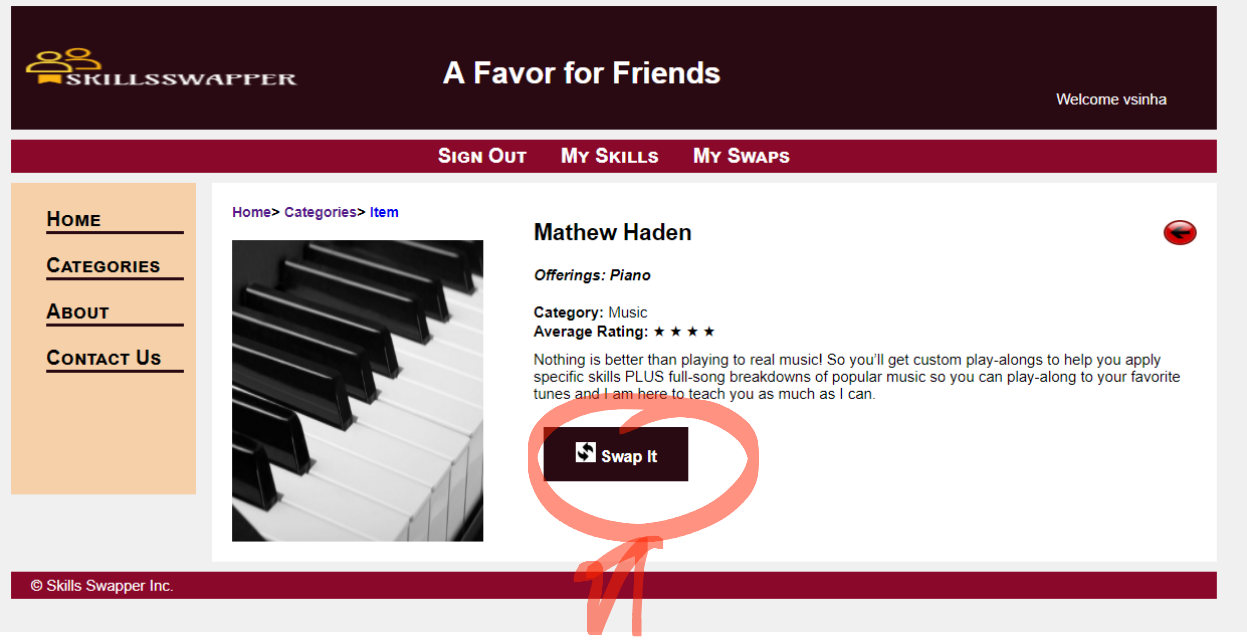
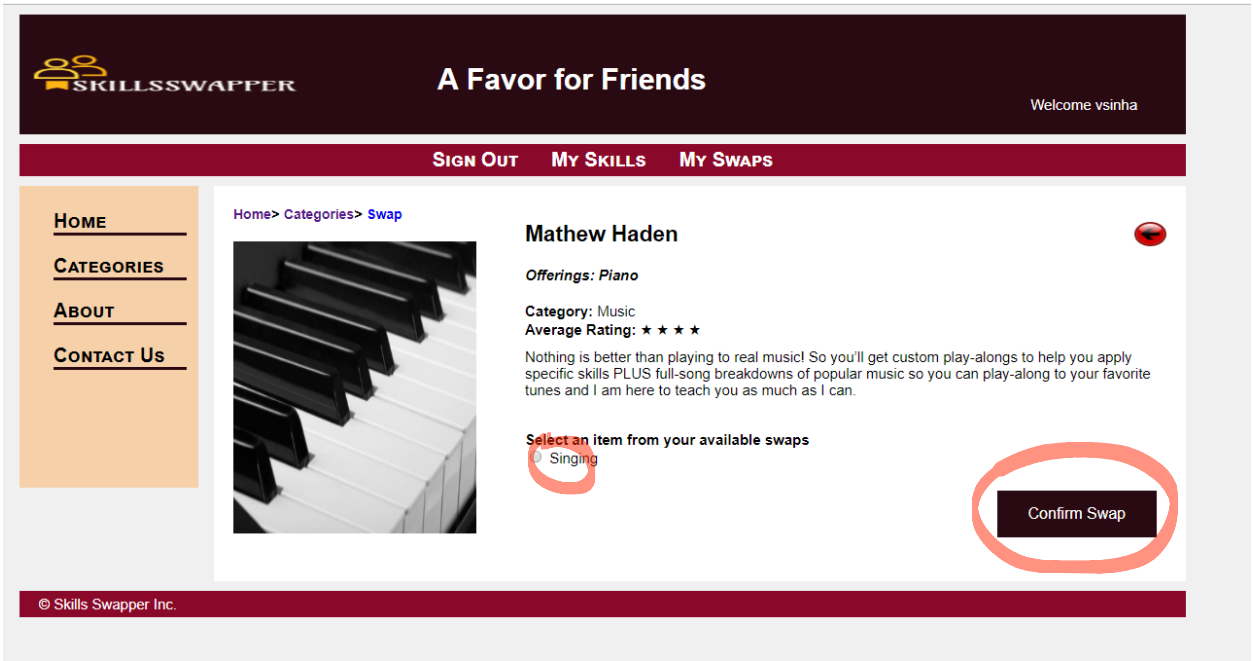
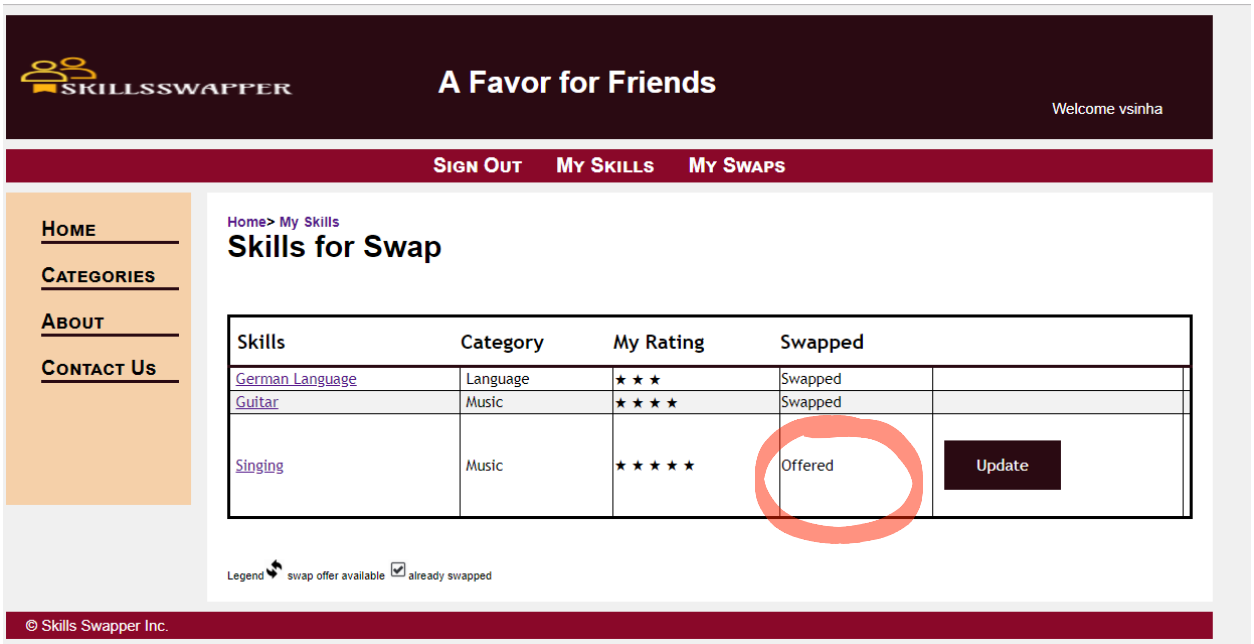

SKILLSSWAPPER
A Favor for Friends
Welcome vsinha
SIGN OUT
MY SKILLS
MY SWAPS
HOME
CATEGORIES
ABOUT
CONTACT US
Home> Categories> Item
Mathew Haden
Offerings: Piano
Category: Music
Average Rating: ★ ★ ★ ★
Nothing is better than playing to real music! So you'll get custom play-alongs to help you apply specific 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
© Skills Swapper Inc.


SKILLSSWAPPER
A Favor for Friends
Welcome vsinha
SIGN OUT
MY SKILLS
MY 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
© Skills Swapper Inc.



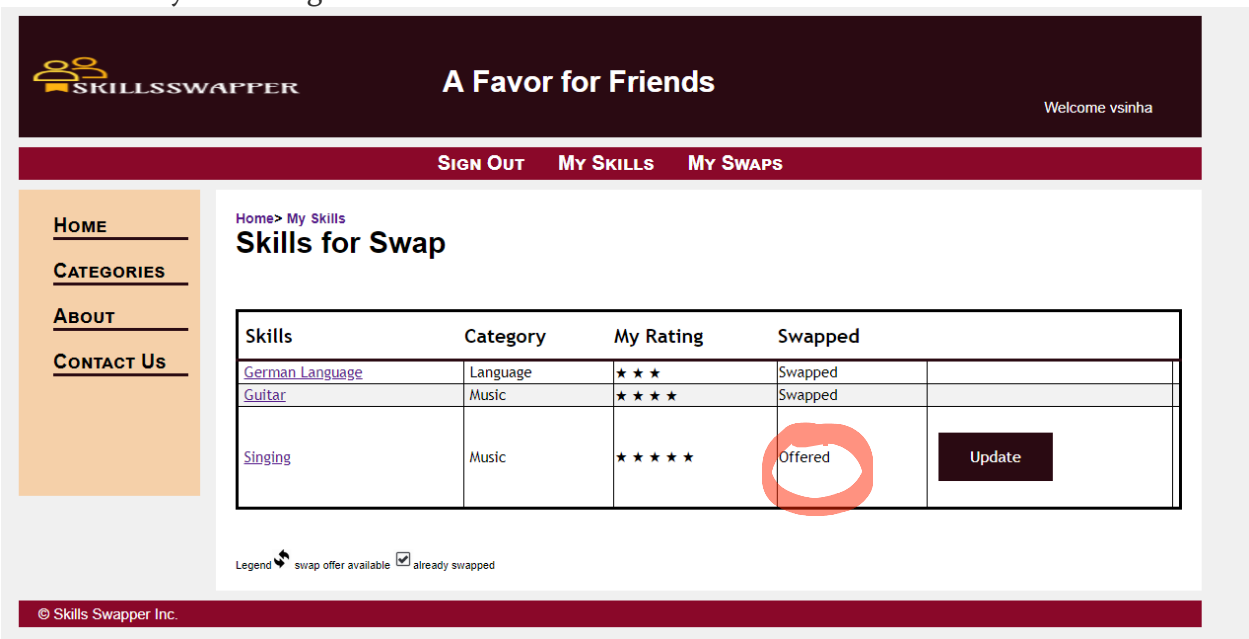
Scenario 5: Withdraw the offer request made by him.

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

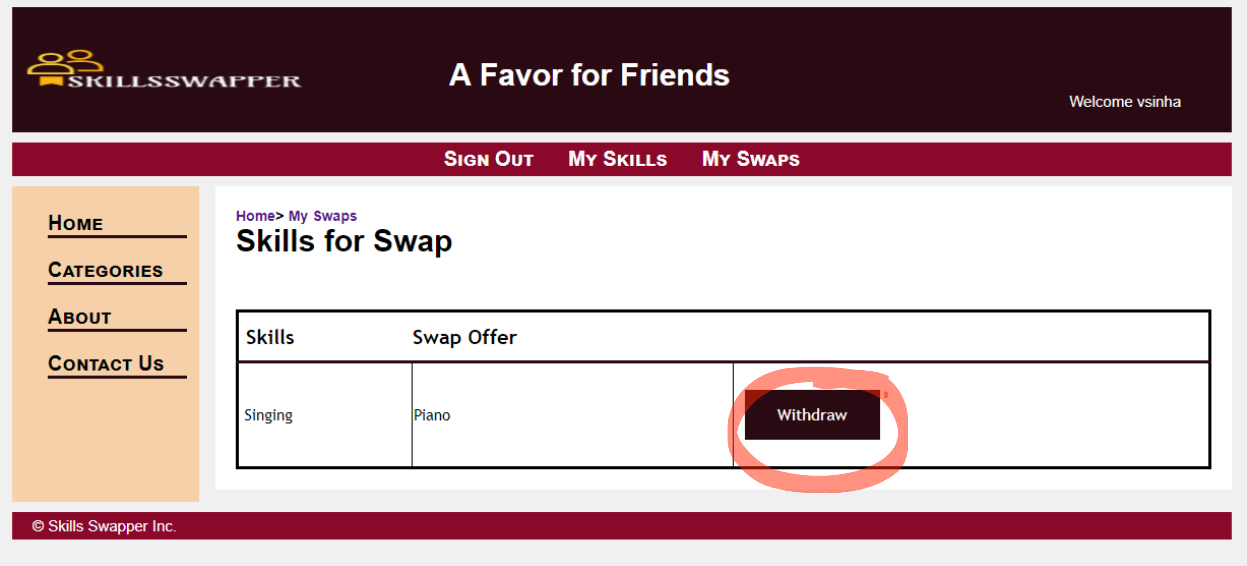
Context: User has already made an offer request.

Solution:

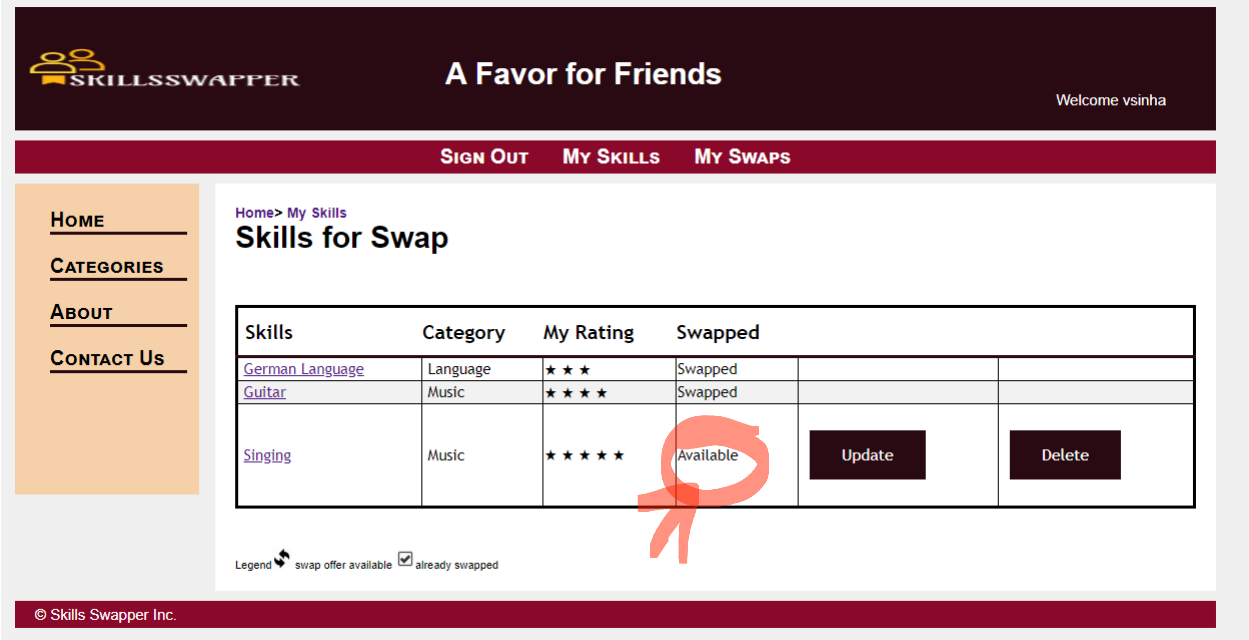
1) User is on My Skills Page and he can see his skill with the status as Offered.



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



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



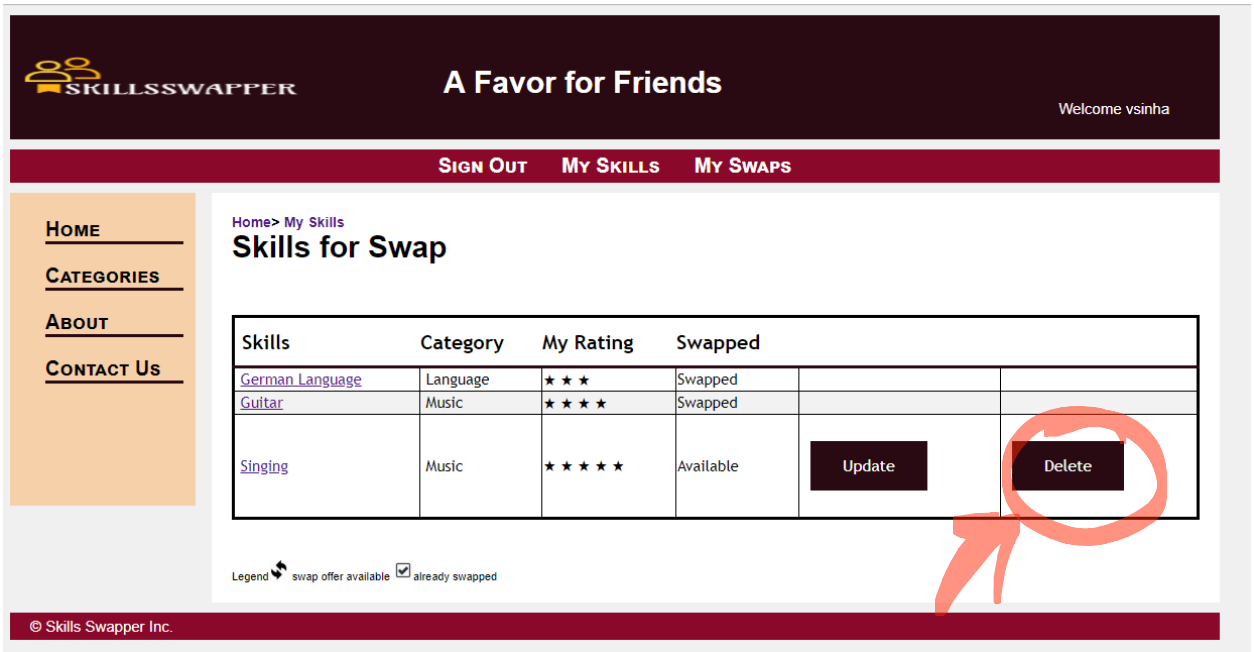
Scenario 6: User wants to delete an item from the list.

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.



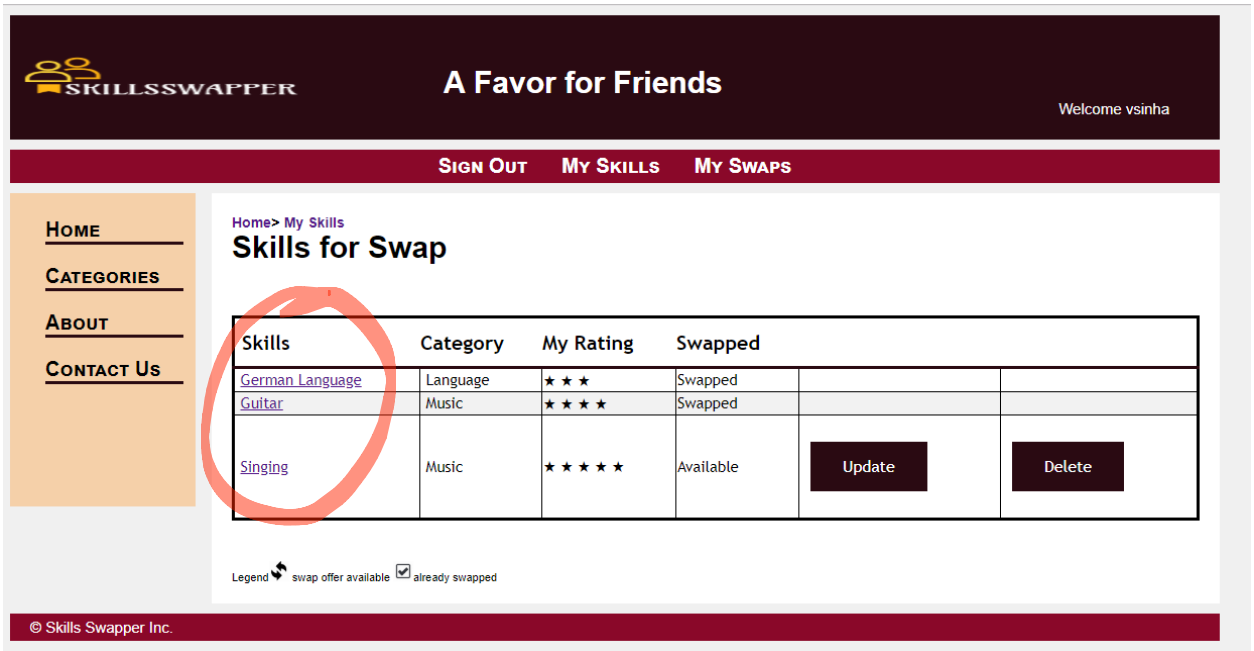
Scenario 7: User wants to rate his own item.

Problem: User wants to rate his own item.

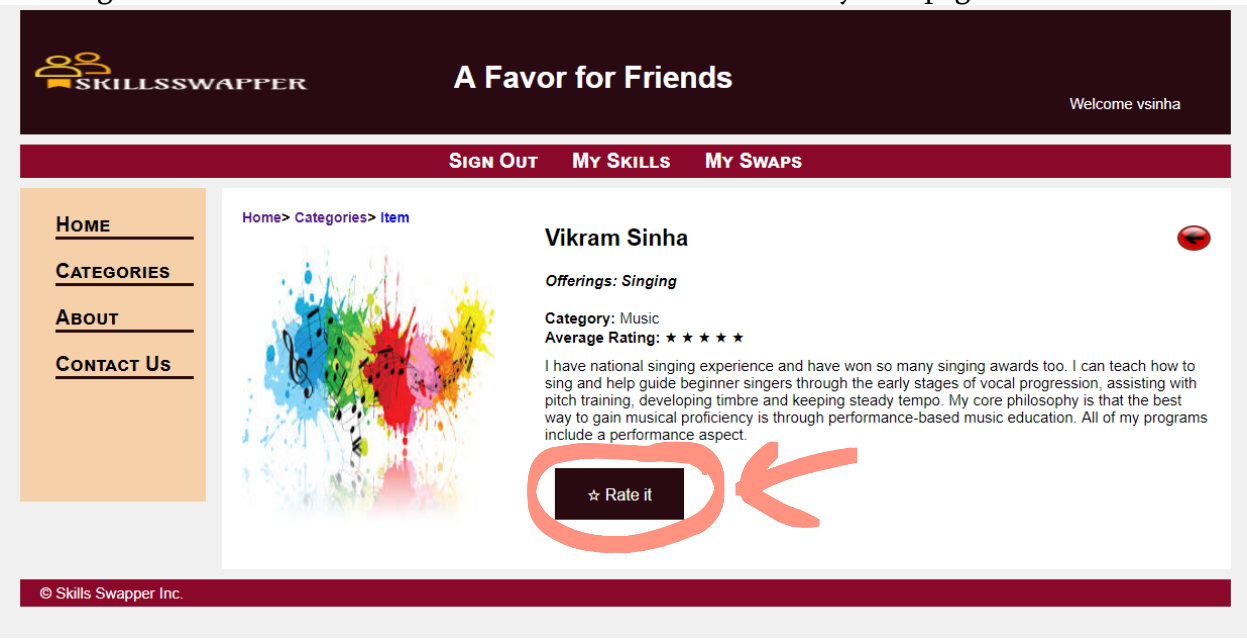
Context: User is logged in and is having some items listed in his profile/My Items.

Solution:

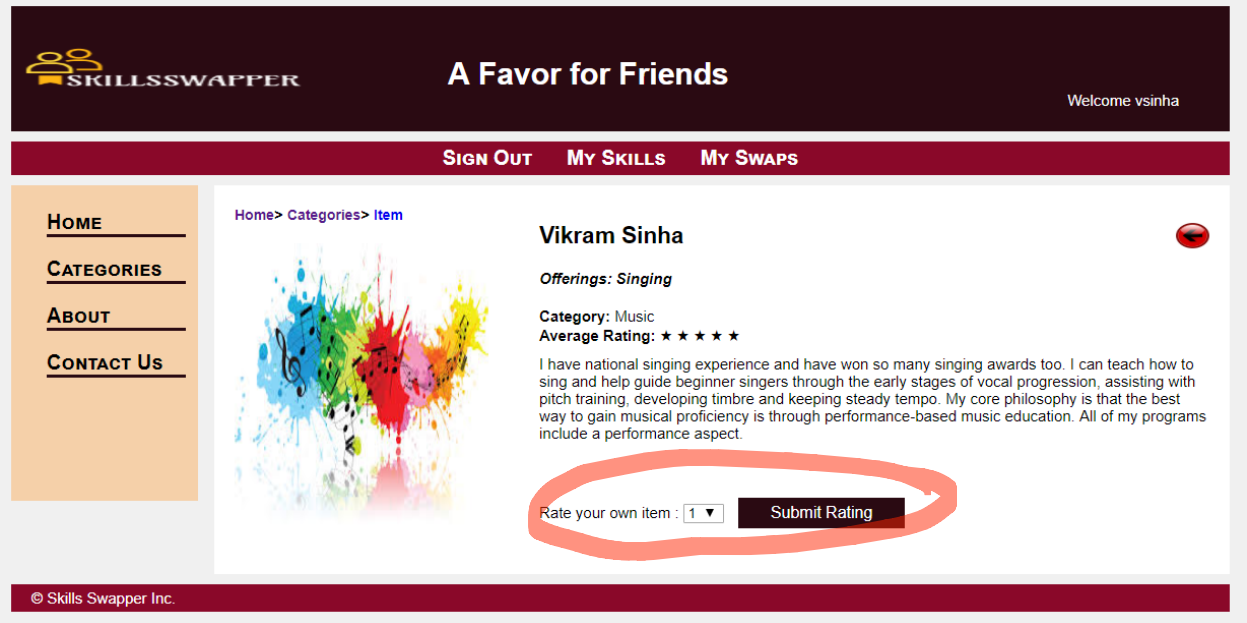
1) User can see all his items under the item column, listed in MyItems page:



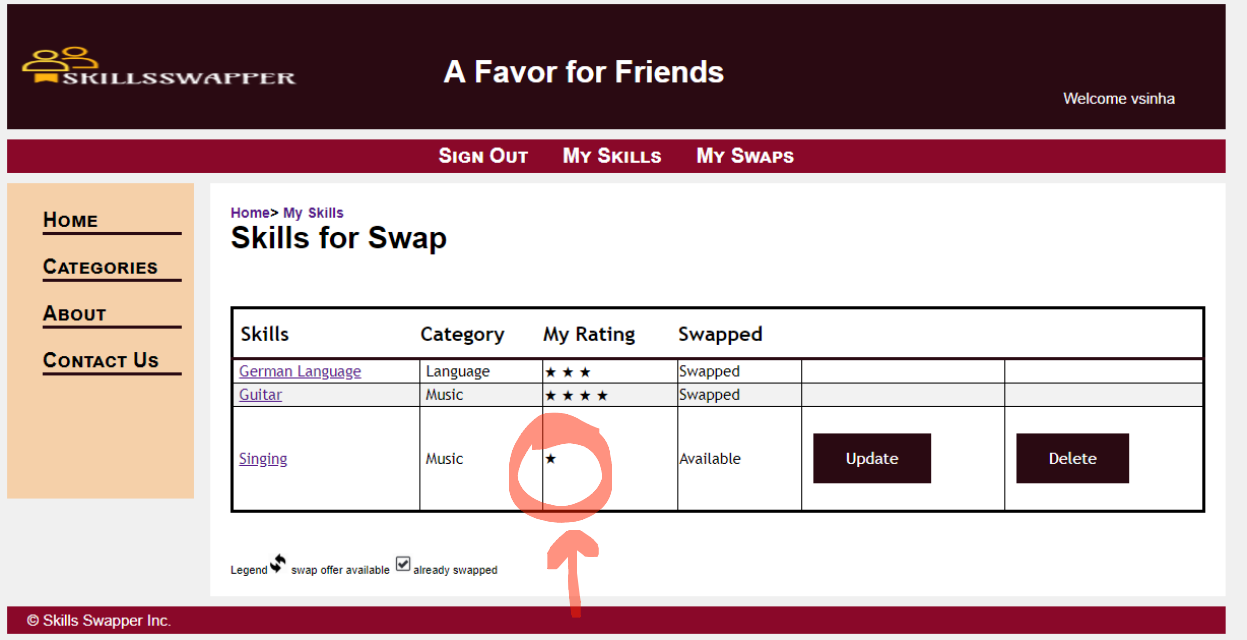
User clicks on that item to rate which has the status as Available. If it is not available status, then he cannot rate the item.
Clicking on the item with status as Available will redirect to myitem page.



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

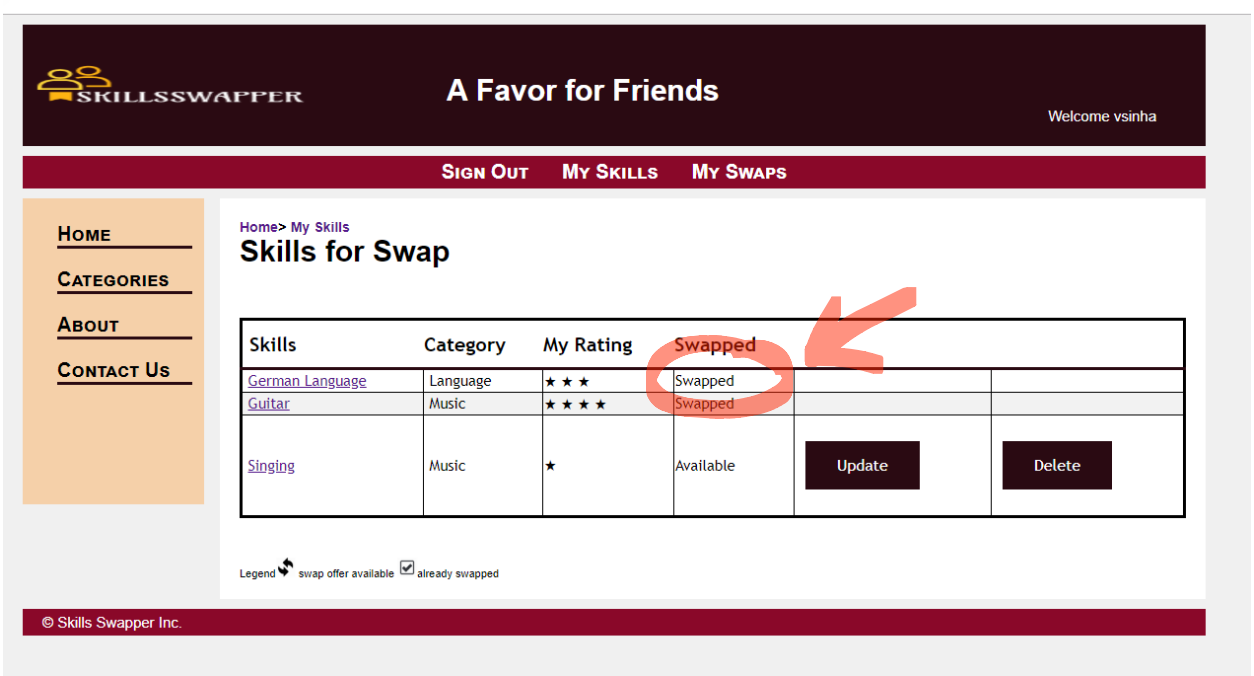


Submitting the rating will be reflected on my skills page as well.

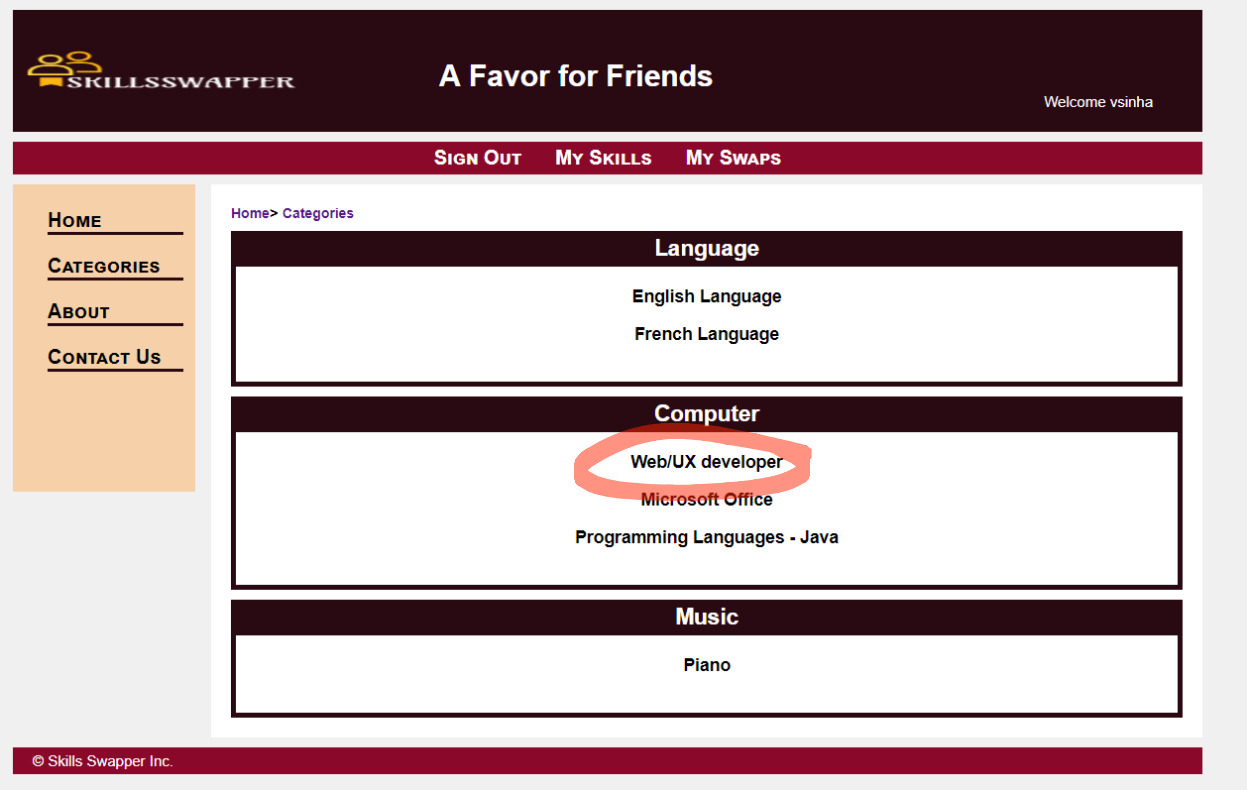


Scenario 8: User wants to give feedback to other users and their items, by giving them rating.
Problem: User wants to rate the items of other users and also want to rate that users with whom he successfully swapped an item
Context: User has already swapped an item successfully.

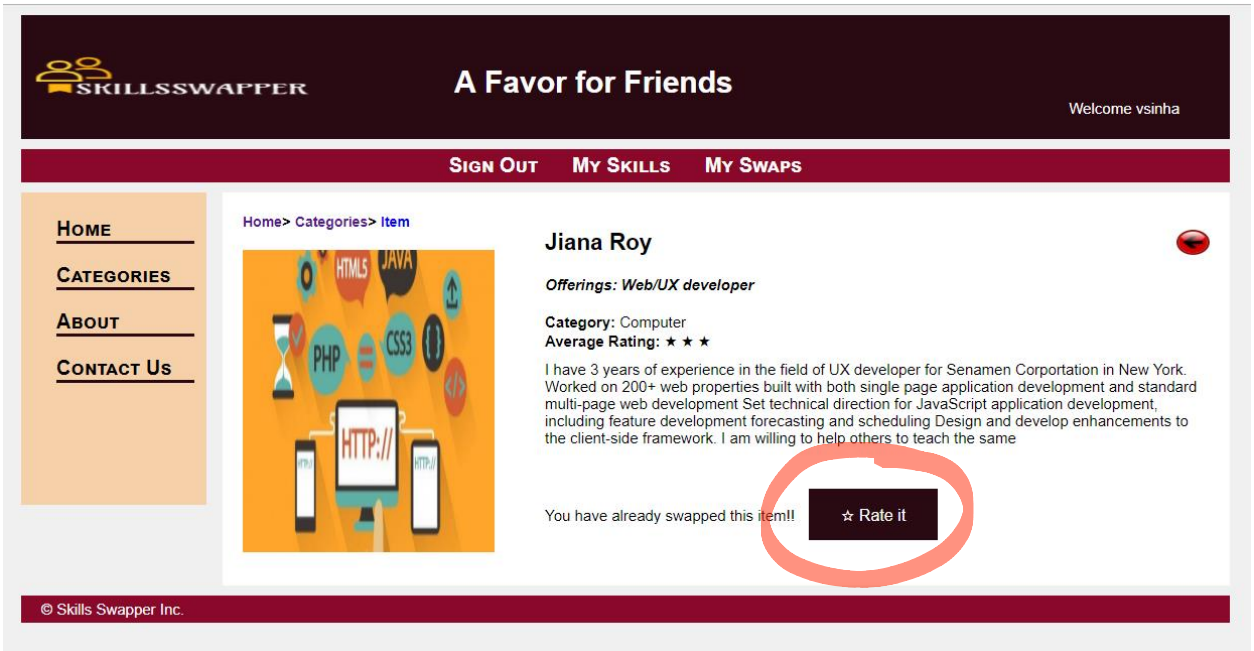
Solution: User has a swapped item in his list of items.



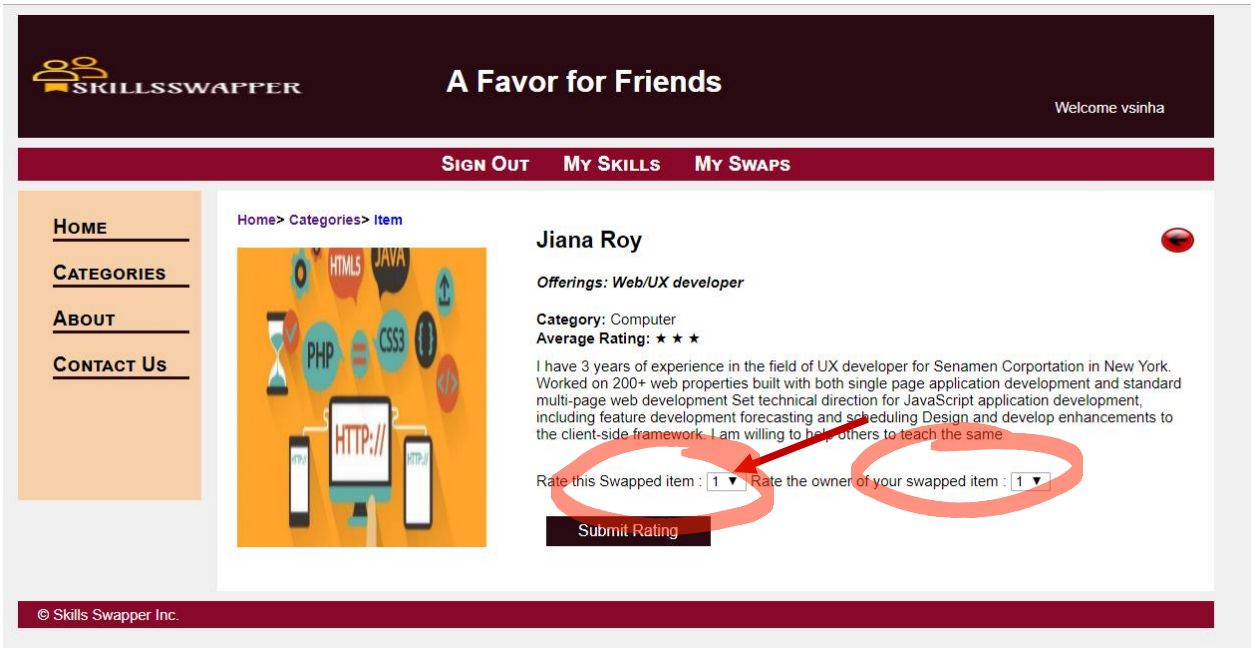
He will click on categories hyperlink from the site navigation panel and will select that item again, which he swapped in past.



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"),
        "offerID" : ObjectId("5c0b2633c468c1524035101a"),
        "swappedItemCode" : "C3S1",
        "swapperID" : "vsinha",
        "userID" : "jroy",
        "__v" : 0,
        "swappedItemRating" : 3,
        "swapperRating" : 3
}
>
```