**Skill Swap Platform - Complete Workflow Example**

# Sample Users and Skills

**User 1: Sarah (Teacher & Learner)**

{

"\_id": "674a1b2c3d4e5f6789012345",

"name": "Sarah Johnson",

"email": "sarah.johnson@email.com",

"bio": "Professional photographer with 8 years of experience.

Love learning new creative skills!",

"location": "San Francisco, CA",

"role": ["teacher", "learner"],

"rating": 4.8,

"themePreference": "dark"

}

**Sarah's Teaching Skill:**

{

"\_id": "674b1c2d3e4f567890123456",

"userId": "674a1b2c3d4e5f6789012345",

"title": "Portrait Photography Fundamentals",

"category": "Photography",

"level": "Intermediate",

"type": "teach",

"duration": "2 hours per session",

"availability": ["Monday 6-8 PM", "Wednesday 6-8 PM", "Saturday

10-12

PM"],

"cost": 50,

"tags": ["portrait", "lighting", "composition", "DSLR"]

}

**User 2: Mike (Learner)**

{

"\_id": "674c2d3e4f5678901234567a",

"name": "Mike Chen",

"email": "mike.chen@email.com",

"bio": "Marketing manager looking to improve my photography

skills for social media content",

"location": "San Francisco, CA",

"role": ["learner"],

"rating": null,

"themePreference": "light"

}

# Complete Workflow Example

**Step 1: Discovery & Initial Request**

Mike browses the Discover page and finds Sarah's portrait photography skill. He's interested because:

* Same location (San Francisco)
* Intermediate level matches his needs
* Good teacher rating (4.8)
* Reasonable cost ($50)

Mike clicks "Request to Learn" on Sarah's skill card.

**Step 2: Request Confirmation Modal**

**A modal appears asking Mike to confirm:**

*"Send a learning request for Portrait Photography Fundamentals to Sarah*

*Johnson? This will notify Sarah that you're interested in learning this skill."*

**Options:**

* **Confirm**



* **Cancel**

Mike clicks Confirm.

**Step 3: Request Creation in Database**

{

"\_id": "674d3e4f567890123456789b",

"skillId": "674b1c2d3e4f567890123456",

"learnerId": "674c2d3e4f5678901234567a",

"teacherId": "674a1b2c3d4e5f6789012345",

"status": "pending",

"canContact": false,

"createdAt": "2024-12-01T14:30:00.000Z"

}

**Step 4: Button State Change & Learner Feedback**

* Button changes from "Request to Learn" to "Request Sent" (disabled, different color)
* **Mike sees a success message:** "Your learning request has been sent to Sarah! You'll be notified when she responds." **Step 5: Teacher Notification**

**Sarah receives a notification:**

{

"\_id": "674e4f56789012345678901c",

"userId": "674a1b2c3d4e5f6789012345",

"message": "Mike Chen has requested to learn 'Portrait

Photography Fundamentals' from you",

"type": "request",

"relatedRequestId": "674d3e4f567890123456789b",

"isRead": false,

"createdAt": "2024-12-01T14:30:00.000Z"

}

Sarah sees this in her Notifications page with options to Accept or Decline.

**Step 6A: If Sarah Accepts**

**Sarah clicks Accept and the system updates:**

**Request Status Update:**

{

"\_id": "674d3e4f567890123456789b",

"status": "accepted",

"canContact": true,

"updatedAt": "2024-12-01T16:45:00.000Z"

}

**Mike's Notification:**

{

"\_id": "674f567890123456789012d",

"userId": "674c2d3e4f5678901234567a",

"message": "Great news! Sarah Johnson has accepted your request

to learn 'Portrait Photography Fundamentals'. You can now message

each other to coordinate sessions.",

"type": "request",

"relatedRequestId": "674d3e4f567890123456789b",

"isRead": false,

"createdAt": "2024-12-01T16:45:00.000Z"

}

**Chat Feature Unlocked:**

* Both users can now access the Messages page
* They can send messages related to this request
* Initial message thread is created

**Sample First Message:**

{

"\_id": "6750678901234567890123e",

"requestId": "674d3e4f567890123456789b",

"senderId": "674a1b2c3d4e5f6789012345",

"receiverId": "674c2d3e4f5678901234567a",

"text": "Hi Mike! I'm excited to help you learn portrait

photography. I'm available this Wednesday 6-8 PM or Saturday

10-12

PM for our first session. Which works better for you?",

"createdAt": "2024-12-01T17:00:00.000Z"

}

**Step 6B: If Sarah Declines**

Sarah clicks Decline and is prompted for a reason:

* "Schedule conflict"
* "Skill level mismatch"
* "Other" (with text input)

Sarah selects "Schedule conflict" and submits.

**Request Status Update:**

{

"\_id": "674d3e4f567890123456789b",

"status": "declined",

"declineReason": "Schedule conflict",

"canContact": false,

"updatedAt": "2024-12-01T16:45:00.000Z"

}

**Mike's Notification:**

{

"\_id": "674f567890123456789012d",

"userId": "674c2d3e4f5678901234567a",

"message": "Sarah Johnson has declined your request to learn

'Portrait Photography Fundamentals'. Reason: Schedule conflict.

Don't worry - keep exploring other teachers!",

"type": "request",

"relatedRequestId": "674d3e4f567890123456789b",

"isRead": false,

"createdAt": "2024-12-01T16:45:00.000Z"

}

**Button Reset:**

* On Sarah's skill card, Mike's button changes back to "Request to Learn"
* Mike can send another request in the future

# Additional Workflow Scenarios

**Scenario 2: Dual-Role User Experience**

**Emma (teacher & learner) posts both skills:**

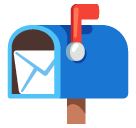
**Teaching: "Spanish Conversation Practice" Learning: "Guitar Basics"**

**Emma can:**

1. Receive learning requests for Spanish
2. Send learning requests for Guitar
3. Manage both incoming and outgoing requests
4. Chat with multiple users for different skills

**Scenario 3: Request Management**

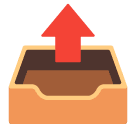
**Teacher Dashboard View:**

📬 Incoming Requests (3)

├── Mike Chen → Portrait Photography (Pending) [Accept] [Decline]

├── Lisa Park → Portrait Photography (Pending) [Accept] [Decline]

 └── Tom Wilson → Portrait Photography (Accepted) ✅

📤 My Requests (1)

 └── Guitar Basics → Carlos Rodriguez (Pending) ⏳

**Scenario 4: Session Completion Flow**

After several successful learning sessions, Sarah (teacher) marks the request as "completed":

**Request Final Status:**

{

"\_id": "674d3e4f567890123456789b",

"skillId": "674b1c2d3e4f567890123456",

"learnerId": "674c2d3e4f5678901234567a",

"teacherId": "674a1b2c3d4e5f6789012345",

"status": "completed",

"canContact": false,

"completedAt": "2024-12-15T18:00:00.000Z",

"updatedAt": "2024-12-15T18:00:00.000Z"

}

**System Updates on Completion:**

1. Chat Access Locked
   * **canContact:** false prevents further messaging
   * **Chat interface shows:** "This conversation has ended as the learning session is now complete. Thank you for using Skill Swap!"
   * Previous messages remain viewable but are read-only
   * Send button is disabled
2. User Profile Updates

**Mike's Profile (Learner) - Enhanced:**

{

"\_id": "674c2d3e4f5678901234567a",

"name": "Mike Chen",

"email": "mike.chen@email.com",

"bio": "Marketing manager looking to improve my photography

skills for social media content",

"location": "San Francisco, CA",

"role": ["learner"],

"rating": 4.5, //

✅

NEW: Initial rating after first



completion

"themePreference": "light",

"skillsLearn": ["674b1c2d3e4f567890123456"], //

✅

NEW: Tracks



completed skills

"completedLearningSessionsCount": 1, //

✅

NEW: Learning



achievements

"createdAt": "2024-11-28T10:00:00.000Z",

"updatedAt": "2024-12-15T18:05:00.000Z"

}

**Sarah's Profile (Teacher) - Enhanced:**

{

"\_id": "674a1b2c3d4e5f6789012345",

"name": "Sarah Johnson",

"email": "sarah.johnson@email.com",

"bio": "Professional photographer with 8 years of experience.

Love learning new creative skills!",

"location": "San Francisco, CA",

"role": ["teacher", "learner"],

"rating": 4.8, // Maintained high rating

"themePreference": "dark",

"skillsTeach": ["674b1c2d3e4f567890123456"],

"completedTeachingSessionsCount": 15, //

✅

UPDATED: +1



completed session

"totalStudentsTaught": 8, //

✅

UPDATED: +1 unique student



"updatedAt": "2024-12-15T18:05:00.000Z"

}

1. Website Stats Update **Before Completion:**

{

"\_id": "67516789012345678901234f",

"totalUsers": 1247,

"totalSkills": 3856,

"totalConnections": 892, // Active connections

"totalCompletedSessions": 2341,

"averageSessionRating": 4.6,

"lastUpdated": "2024-12-15T17:59:00.000Z"

}

**After Completion:**

{

"\_id": "67516789012345678901234f",

"totalUsers": 1247,

"totalSkills": 3856,

"totalConnections": 893, //

✅

+1 successful connection



"totalCompletedSessions": 2342, //

✅

+1 completed session



"averageSessionRating": 4.6, // Recalculated with new ratings

"lastUpdated": "2024-12-15T18:05:00.000Z"

}

1. Completion Notifications **Mike receives:**

{

"\_id": "675267890123456789012350",

"userId": "674c2d3e4f5678901234567a",

"message": "

🎉

Congratulations! You've completed 'Portrait



Photography Fundamentals' with Sarah Johnson. Please rate your

learning experience to help other users.",

"type": "system",

"relatedRequestId": "674d3e4f567890123456789b",

"isRead": false,

"createdAt": "2024-12-15T18:05:00.000Z"

}

**Sarah receives:**

{

"\_id": "675267890123456789012351",

"userId": "674a1b2c3d4e5f6789012345",

"message": "

✅

Teaching session completed! 'Portrait



Photography Fundamentals' with Mike Chen has been marked as

finished. Your teaching stats have been updated.",

"type": "system",

"relatedRequestId": "674d3e4f567890123456789b",

"isRead": false,

"createdAt": "2024-12-15T18:05:00.000Z"

}

1. Rating & Review Prompt

Both users receive prompts to rate each other:

**Mike's Rating Interface:**

Rate your experience with Sarah Johnson

Portrait Photography Fundamentals

**Teaching Quality:**



**Communication:**



**Experience:**

**Written Review (Optional):**

"Sarah was an excellent teacher! Very patient and provided great practical tips for portrait lighting."

[Submit Rating]

**Sarah's Rating Interface:**

Rate your experience with Mike Chen

Portrait Photography Fundamentals

**Engagement:**



**Preparedness:**



**Student:**



**Written Review (Optional):**

"Mike was a dedicated student, asked great questions and practiced between sessions!"

[Submit Rating]

**6.** Profile Achievements & Badges

**Mike's New Achievement:**

{

"achievementType": "First Learning Session",

"skillCategory": "Photography",

"badgeIcon": "

📸

",



"unlockedAt": "2024-12-15T18:05:00.000Z"

}

**Sarah's Updated Achievement:**

{

 "achievementType": "Teaching Excellence", "description": "Completed 15+ teaching sessions with 4.8+ rating",

"badgeIcon": "🏆",

"tier": "Gold Teacher"

}

# Homepage Stats Display Update

**The website homepage now shows updated stats:**

📊 Platform Impact

👥 1,247 Active Users

🎯 3,856 Skills Shared

🤝 893 Successful Connections

⭐ 4.6 Average Rating

**Key Features Demonstrated**

**✅ Clear Status Tracking:** pending → accepted/declined → completed

**✅ Real-time Notifications:** Both users stay informed

**✅ Conditional Messaging:** Chat only unlocked after acceptance

**✅ Dual Role Support:** Users can teach and learn simultaneously

**✅ Graceful Decline Handling:** Reasons provided, buttons reset

**✅ Data Consistency:** All related records properly linked via ObjectIds

**✅ User Experience:** Clear feedback at every step

This workflow ensures smooth communication, proper expectation management, and a positive experience for both learners and teachers on the Skill Swap platform.