

# Project Report

Milestone 2

Name: Devashri Gadgil

## Application workflow:

Prerequisites :

1. Node
2. Nodemon

Instructions to run the application:

- Open terminal at the root folder of the application
- Run command npm install : This will install the required dependencies.
- Run command nodemon app
- The server will start listening to the port 3000
- Open browser and hit <http://localhost:3000/>

## Landing Page

This is the index page of my trading platform which allows exchange of scented candles. It is displayed when a user enters <http://localhost:3000/> or <http://localhost:3000/home> in the browser window.

API's involved :

1. [LOGO] GET / : renders landing page(views/index.ejs)
2. GET /home: renders landing page(views/index.ejs)
3. [FOOTER] GET /about: renders about page(views/main/about.ejs)
4. [FOOTER] GET /contact: renders contact page(views/main/contact.ejs)
5. [NAV] GET /trades : GET all trade items dynamically and display them under their category name on trades page(views/trade/trades.ejs)
6. [HEADER] GET /new : Display a HTML form to create a new trade item. (views/trade/newTrade.ejs)
7. Login and signup links are still displables since user authentication was not part of this milestone.

The screenshot shows a web browser window with the URL `localhost:3000` in the address bar. The page title is "Scent Swap" with the subtitle "Relax! Exchange! Reuse!". On the left, there's a small image of two lit candles. On the right, there are navigation links: "Start Trading!", "Login", and "Sign up". A user profile icon is visible in the top right corner. The main content area has a pink header bar with the word "Trades". Below it, a section titled "Hey there!" contains text about trading scented candles. At the bottom of the page is a footer bar with links: "© Scent Swap", "About", and "Contact".

← → ⌛ localhost:3000

Campuswire Jamil Pantry

**Scent Swap**  
Relax! Exchange! Reuse!

Start Trading! Login Sign up

Trades

**Hey there!**

Do you own a leftover scented candle that was once beloved?  
Would you like to try a new one for no extra cost? You have come to the right place!  
Here at Scent Swap you can exchange gems from your scented candle collection.

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## About Page

API's involved :

Apart from common API's available on header, nav and footer, this webpage is displayed using GET /about at <http://localhost:3000/about>

The screenshot shows a web browser window with the URL `localhost:3000/about`. The page has a header with the title "Scent Swap" and the tagline "Relax! Exchange! Reuse!". It features a small image of two lit candles. On the right side of the header are links for "Start Trading!", "Login", and "Sign up". Below the header is a pink navigation bar with the text "Trades". The main content area contains a heading "Hello!" followed by a paragraph about the developer, Devashri Gadgil, and the project details. At the bottom of the page is a footer with links for "About" and "Contact".

← → ⌛ ⓘ localhost:3000/about

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**Scent Swap**  
Relax! Exchange! Reuse!

[Start Trading!](#) [Login](#) [Sign up](#)

[Trades](#)

**Hello!**

We are team Scent Swap! Nice to meet you!!  
My name is Devashri Gadgil. I am the only developer of this beautiful application.  
This individual project was developed as part of the course: Network based application development under supervision of Dr. Nadia Najjar  
(Fall 2022, UNC Charlotte)

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## Contact Page

API's involved :

Apart from common API's available on header, nav and footer, this webpage is displayed using GET /contact at <http://localhost:3000/contact>

A screenshot of a web browser showing the homepage of the Scent Swap application. The URL in the address bar is localhost:3000/contact. The page has a light orange header with the title "Scent Swap" and the tagline "Relax! Exchange! Reuse!". On the right side of the header are links for "Start Trading!", "Login", and "Sign up". The main content area has a pink header bar with the word "Trades". Below this, there is a section titled "Let's stay in touch!" containing contact information: Email: dgadgil@uncc.edu / gadgil.devashri@gmail.com, To report bugs, request features or to contribute: Visit our [GitHub](#) Repository. At the bottom of the page is a footer bar with links for "© Scent Swap", "About", and "Contact".

## Trades Page

This page displayed all items available for trading under their respective category. Each item is clickable.

APIs involved:

1. GET /trades : Displays (views/trade/trades.ejs)
2. GET /trades/:id : Displays (views/trade/trade.ejs) with details corresponding to item id in the URL

← → ⌂ localhost:3000/trades

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## Trades

### Woody scent

 **Sandalwood**  
In aromatherapy, sandalwood has many benefits. Its sweet, soft scent relaxes human body, and promotes positive thinking, clarity and aids concentration. Many people believe it can also help boost memory. Often sandalwood is associated as a 'masculine' smell but it's actually used in loads in 'feminine' marketed fragrances out there.

 **Pine**  
Pine tree aroma has sharp, sweet, and refreshing notes. Lit a candle and the enjoy smell of pine trees: pine needles, bark and cones - just like a walk through a pine forest. Like a classic winter scene coming to life, the mix of pine needles and winter air pair wonderfully with fruit, floral and citrus scents.

 **Juniper**  
It has distinctive aroma that is woody, sweet, fresh and crisp. Get a juniper scented candle for the holiday season, your house will smell amazing for weeks. It blends well with woody smells like cedarwood, sandalwood and rosewood and other conifers like cypress and fir needle.

### Floral scent

 **Rose**  
A candle that relieves stress, fights anxiety, and relaxes your body and mind. People say that the scent of the rose is both the scent of great love, and it is also very enveloping like Mother's arms. It's a very sensual and romantic scent that is emotionally uplifting

 **Lavender**  
Lavender has a delicate, sweet smell that is floral, herbal, and evergreen woodsy at the same time. It has soft, powdery, or smokey notes as well. Lavender is one of the most popular scents for relaxing and falling asleep. It can help release tension, soothe racing thoughts and help you unwind.

## Trade page

This page displays details related to specific item.

APIs involved:

1. GET /:id/edit : Display edit page with a form containing details of the trade to be edited. (views/trade/editTrade.ejs)
2. DELETE /:id : Deletes trade item on the web page and redirects the flow to trades page.

localhost:3000/trades/2

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## Scent Swap

Relax! Exchange! Reuse!

[Start Trading!](#) [Login](#) [Sign up](#)

[Trades](#)

**Pine**

**Woody scent**

**Description:**  
Pine tree aroma has sharp, sweet, and refreshing notes. Lit a candle and the enjoy smell of pine trees: pine needles, bark and cones - just like a walk through a pine forest. Like a classic winter scene coming to life, the mix of pine needles and winter air pair wonderfully with fruit, floral and citrus scents.

**Company:**  
White Barn

**Type:**  
3 wick

**Original Net Weight:**  
14.5Oz

**Existing Net Weight:**  
6Oz

**Original Price:**  
\$26.50

**Status:**  
available



[Edit](#) [Delete](#)

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## Edit Trade Page

This page displays the details of the specific trade item in a form. Users can update any attribute of the item and click on the update trade button. The details will be updated and the user will be redirected to the trade page which will showcase updated information.

APIs involved:

1. PUT /:id : Update the trade item
2. GET /trades/:id : Displays (views/trade/trade.ejs) with details corresponding to item id in the URL

localhost:3000/trades/2/edit?

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## Scent Swap

Relax! Exchange! Reuse!

[Start Trading!](#) [Login](#) [Sign up](#)

**Trades**

Title	Pine
Category	Woody scent
Company	White Barn
Image	/images/pine.jpeg
Type	<input checked="" type="radio"/> 3 Wick <input type="radio"/> 2 Wick <input type="radio"/> 1 Wick
Original Net Weight(Oz)	14.5
Existing Net Weight(Oz)	6
Original price(USD)	26.50
Description	Pine tree aroma has sharp, sweet, and

[Update trade](#)

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## New Trade Page

This page displays a HTML form which can be used to submit a new trade item on the website. All fields are mandatory. After successful creation, the user will be redirected to the trades page.

API's involved:

1. POST /trades : Create a new object for the submitted item in the memory. Since there is no database connection, the newly created objects are not persistent.
2. GET /trades : Displays trades page(views/trade/trades.ejs)

← → ⌂ localhost:3000/trades/new

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## Scent Swap

Relax! Exchange! Reuse!

Start Trading! Login Sign up

### Trades

Title	<input type="text"/>
Category	<input type="text"/>
Company	<input type="text"/>
Image	<input type="text"/>
Type	<input type="radio"/> 3 Wick <input type="radio"/> 2 Wick <input type="radio"/> 1 Wick
Original Net Weight(Oz)	<input type="text"/>
Existing Net Weight(Oz)	<input type="text"/>
Original price(USD)	<input type="text"/>
Description	<input type="text"/>

**Create trade**

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## Error Page

If a user tries to access an non existing entity, the webpage will handle this gracefully and will display a 404 error. Similarly internal server error is also handled.

← → ⌂ localhost:3000/trades/50

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## Scent Swap

Relax! Exchange! Reuse!

Start Trading! Login Sign up

### Trades

**404 Error**  
Can not find trade with id 50

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**Status:**

Complete. All given requirements for milestone 2 are successfully incorporated.

**Challenges:**

I am new to the express framework. I have worked with Angular previously. I observed that the philosophy behind both these JS frameworks is the same. However you have to do a lot of things in express that are automatically managed for you in Angular. The most challenging part for me was coordinating the MVC flow. For any functionality, you have to make changes in model, view and controller portion of the code. Initially, I was overwhelmed. I overcame this challenge by using a todo list. I jotted down all the parts for which the code change was required for the functionality. I started implementing things one by one and testing them on the go. This helped me to reduce silly mistakes.

**Excitement and new learning outcomes:**

It was fun to see the website getting ready after each step. It was a pain to create static web pages. I can imagine how much effort would be required to create static web pages for all of the items individually. I enjoyed the EJS include concept. It was exciting to divide the code in partials and actual pages. The amount of code drastically reduced on each web page gave me clarity of thoughts. The modularization is an essential part of any software development process. I got a hang of it due to this milestone.