

# Night Owl Developers Documentation

Sprint 3: October 23 , 2021 - November 5, 2021

## Overview

- Project goal: To build a web application that functions as an “Airbnb for pets”, with features that facilitate interactions between pet owners and pet service providers.
- Application features for this sprint:
  - Frontend: Service Page, Product Page, Media Page, Create Media Page, Detail Service Page, Detail Product Page, and Detail Media Page, Cart Page
  - Backend: DB tables setup, APIs for services, products and comments, authentication logic, user session logic, filtering and sorting, inserting and retrieving images, Cart System
- Team organization:
  - Frontend: Frank, Ivan, Jonathan, Meng
  - Backend: Gary, Jesse, Tyler

## Frontend:

The frontend is built with React. Libraries used include Bootstrap. Below are the frontend features prioritized in Sprint 3.

Registration page: Users can register an account on the website by providing a username, password, email, and location.

Login page: Users can login to the website by providing their username and password.

Account page: After users are logged in, they can access their accounts page. On this page they can see options to edit their account information such as password, email, and location.

HomePage Search: Users can search for service providers by using Location, price range, pet breed, number of pets.

Media Page: Users can view a list of media posts.

Create Media Page: Users can send post requests to the backend to create media posts.

Product Page: Users can see a list of Product page cards based on selected parameters, filters and sort them accordingly.

Service Page: Users can see a list of Service page cards based on selected parameters, filters and sort them accordingly.

Detail Media Page: Detail Media Page shows the detail description, pictures and comments of the media page.

Detail Product Page: Detail Product Page shows the detail description, pictures and comments of the Product page.

Detail Service Page: Detail Service Page shows the detail description, pictures and comments of the Service page.

Cart Page: Cart Page shows the products and services currently in the user's cart.

## **Backend:**

The backend server logic is built with Express and Node. Other Node modules used include Passport.

PostgreSQL is used as our database management system. Below are the tables currently used by our application:

### users

uid	integer
username	varchar(30)
email	varchar(30)
password	varchar(30)
fname	varchar(30)
lname	varchar(30)
city	varchar(30)
phone_number	bigint
avatar	varchar(200)

### providers

provider_id	integer
provider_name	varchar(200)
provider_phone	varchar(200)
provider_email	varchar(200)
provider_avatar	varchar(200)

### services

service_id	integer
service_pic_url	varchar(200)[]
service_title	varchar(200)
service_detail	varchar(200)
service_facility	varchar(200)
location	varchar(200)
price_per_day	decimal
service_rating	decimal
service_pet_breed	varchar(200)
pid	integer

### products

product_id	integer
product_detail	varchar(200)
product_name	varchar(200)
product_origin	varchar(200)
product_category	varchar(200)
product_pet_breed	varchar(200)
product_price	decimal
product_type	varchar(200)

product_pic_url	varchar(200)[]
product_rating	decimal

#### comments

comment_id	integer
comment_type	varchar(200)
foreign_id	varchar(200)
comment_detail	varchar(200)
author_name	varchar(200)
author_profile_pic_url	varchar(200)
comment_time	varchar(200)

#### replies

reply_id	integer
cid	integer
reply_username	varchar(200)
reply_avatar_url	varchar(200)
reply_detail	varchar(200)
reply_time	varchar(200)

#### mediaPages

id	integer
author_id	integer
media_picture_irl	varchar(200)[]
media_title	varchar(50)
media_detail	varchar(200)
published_time	varchar(50)

number_of_likes	integer
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#### product\_cart\_items

id	integer
user_id	integer
product_id	integer
quantity	integer
size	varchar

#### service\_cart\_items

id	integer
user_id	integer
service_id	integer
start_date	varchar(200)
end_date	varchar(200)
number_of_pets	integer

#### images

image_id	integer
image_name	varchar(200)
image_data	bytea

### **DB API**

Server location: <http://localhost:3001>

#### User API

API Method	Description	Request Body Format
GET /api/user	Gets all rows of users from the	

	database.	
GET /api/user/:uid	Gets the user with the given uid.	
POST /api/user	Create and insert a new user into the database.	{ username: string, email: string, password: string, fname: string, lname: string, city: string, phone_number: int }
PUT /api/user/:uid	Edit the user's password, email, or location fields. Username cannot be changed. At least one of these fields must be in the request body.	{ password:string, email: string, city: string, phone_number: int, avatar: string }

### Auth API

API Method	Description	Request Body Format
POST /api/auth/login	Login as a user using the login credentials.	{ username: string, password: string }
POST /api/auth/logout	Log out of the user's account.	
GET /api/auth/user	Check if current user is logged in, and if so, get the user details	

### Providers API

API Method	Description	Request Body Format
GET /api/providers	Gets all rows of providers from the database.	
GET	Get the provider with the given	

/api/providers/: provider_id	provider_id	
POST /api/providers	Create and insert a new provider into the database	{ "provider_name": "value", "provider_phone": "value", "provider_email": "value", "provider_avatar": "value" }
PUT /api/providers/: provider_id	Edit the provider's information. Must contain at least one of the fields to edit.	{ "provider_email": "value" }
DELETE /api/providers/: provider_id	Removes the given provider from the database.	

### Services API

API Method	Description	Request Body Format
GET /api/services	Gets all rows of services from the database. Allows users to filter and sort on specific columns using query params.	Query params: - locations - pet_breeds - minPrice - maxPrice - sortBy - sortDirection
GET /api/services/:s ervice_id	Get the service with the given service_id	
POST /api/services	Create and insert a new service into the database	{ "service_pic_url": ["value1", "value2"], "service_title": "value", "service_detail": "value", "service_facility": ["value1", "value2"] "location": "value", "price_per_day": "value" , "service_rating": "value", "service_pet_breed": "value", "pid": int // provider u id }
PUT	Edits the service's information.	{

/api/services/:service_id	Must contain at least one of the fields to edit.	"service_detail": "value" }
DELETE /api/services/:service_id	Removes the given service from the database.	

### Products API

API Method	Description	Request Body Format
GET /api/products	Gets all rows of products from the database. Allows users to filter and sort on specific columns using query params.	Query params: - categories - pet_breeds - minPrice - maxPrice - sortBy - sortdirection
GET /api/products/:product_id	Gets the product with the given product_id from the database.	
POST /api/products	Create and insert a new product into the database	{ "product_detail": "value", "product_name": "value", "product_origin": "value", "product_price": "value", "product_type": "value", "product_pic_url": "value", "product_rating": "value" }
PUT /api/products/product_id	Edits the product's information. Must contain at least one of the fields to edit.	{ "product_rating": "value" }
DELETE /api/products/product_id	Deletes the product with the given product_id from the database.	

### Comments API

API Method	Description	Request Body Format
GET /api/comments	Gets all comments belonging to a service, product, or	Query params: "comment_type": "product",



	<p>media.</p> <p>comment_type can be ["product", "service", "media"] and foreign_id is an integer.</p> <p>For example, the request body to the right would get all comments belonging to the product with product_id of 5.</p>	"foreign_id":5
<p>POST</p> <p>/api/comments</p>	Creates an inserts a new comment into the database	<pre>{   "comment_type":"value",   "foreign_id":"value",   "comment_detail":"value",   "author_name":"value",   "author_profile_pic_url":"value",   "comment_time":"value" }</pre>
<p>PUT</p> <p>/api/comments/:comment_id</p>	Edits the comment's information. At least one field must be in the request body.	<pre>{   "comment_detail":"value" }</pre>
<p>DELETE</p> <p>/api/comments/:comment_id</p>	Deletes the comment with the given comment_id from the database.	

### Replies API

API Method	Description	Request Body Format
<p>GET</p> <p>/api/replies</p>	<p>Gets replies belonging to a comment.</p> <p>If cid is specified in query params, only replies for that comment will be returned. If nothing is specified, all replies are returned.</p>	<p>ie.</p> <p>GET /api/replies?cid=2</p>
<p>GET</p> <p>/api/replies/:reply_id</p>	Gets the reply with the given reply_id from the database.	
<p>POST</p> <p>/api/replies</p>	Create and insert a new reply into the database.	<pre>{   "cid":int,   "reply_username":"user1",   "reply_avatar_url":"url1.com", }</pre>

		<pre> "reply_detail": "string", "reply_time": "2021-10-20 2:00PM" } </pre>
<b>PUT</b> /api/replies/:reply_id	Edit the reply's information. At least one field must be in the request body.	<pre> { "reply_detail": "string2" } </pre>
<b>DELETE</b> /api/replies/:reply_id	Deletes the reply with the given reply_id from the database.	

### Media Pages API

API Method	Description	Request Body Format
GET /api/mediapages	Gets all rows of mediapages from the database.	
GET /api/mediapages/:id	Gets the media page with the given id.	
POST /api/user	Create and insert a new user into the database.	<pre> { author_id: int, media_picture_url: string, media_title: string, media_detail: string, published_time: string, number_of_likes: int } </pre>

### Cart API

API Method	Description	Request Body Format
GET /api/cart	Get all of the products and services in the currently logged-in user's cart.	
POST /api/cart/product	Add a product to the currently logged-in user's cart.	<pre> { product_id: int, quantity: int, size: string } </pre>

		}
POST /api/cart/service	Add a service to the currently logged-in user's cart.	{ service_id: int, start_date: string, end_date: string, number_of_pets: int }
DELETE /api/cart/product/:id	Delete a product from the currently logged-in user's cart.	
DELETE /api/cart/service/:id	Delete a service from the currently logged-in user's cart.	

### Images API

API Method	Description	Request Body Format
GET /api/images	Gets the image with the specified name.	Query params must contain the key "image_name" with the value being the image's filename. (ie. corki.jpg)
GET /api/images/:image_id	Gets the image with the given id.	
POST /api/images	Insert an image into the database.	Must use form-data.  KEY: img VALUE: file upload
DELETE/api/images/:image_id	Deletes the image with the given image_id from the database.	