## Edit Coin and adding coin to cart

For placing an edit coin with valid URL in coin details page, first we need to update the **urls.py** in project folder:

```
from django.contrib import admin
from django.urls import path, include
from django.conf import settings
from django.conf.urls.static import static
from rest framework import routers
from coins.views import CoinViewSet, CoinSearchView, coins table, coin_details, edit_coin
# Create a router for registering viewsets
router = routers.DefaultRouter()
# Register CoinViewSet with the router
router.register(r'coins', CoinViewSet)
# Define URL patterns
urlpatterns = f
 # Admin site URL
 path('admin/', admin.site.urls),
 # API endpoints for coins using the router
 path('api/', include(router.urls)),
 path('coins/search/<path:path params>/', CoinSearchView.as view(),
name='coin-search'),
 path('coins/', coins table, name='coins-table'), # URL for the coins table HTML page
 path('coin/<int:coin id>/', coin details, name='coin-details'), # URL for the coin details
<u>page</u>
 path('edit-coin/<int:coin id>/', edit coin, name='edit coin'),
 path("", include(("coins.urls", "coins"), "coins")),
# Serve media files in DEBUG mode
if settings.DEBUG:
urlpatterns += static(settings.MEDIA URL, document root=settings.MEDIA ROOT)
Followed by, you need to update the views.py with:
@login required
def edit coin(request, coin id):
coin = get\ object\ or\ 404(Coin,\ pk=coin\ id)
 if request.user.id!= coin.created by id:
   return redirect('coins:home')
 if request.method == 'POST':
```

```
form = CoinForm(request.POST, request.FILES, instance=coin)
if form.is_valid():
    form.save()
    messages.success(request, 'Coin updated successfully!')
    return redirect(reverse('coin-details', kwargs={'coin_id': coin_id}))
else:
    messages.error(request, 'Please correct the errors below.')
else:
    form = CoinForm(instance=coin)
return render(request, 'edit coin.html', {'form': form, 'coin': coin})
```

Next place the edit button in **coin\_details..html** in respective place (only to be visible for the owner of coin creation):

```
<mark>{% extends "base.html" %}</mark>
{% load bootstrap4 %}
{% block content %}
 <div class="container mt-5">
   <h1 class="text-center mb-4"><strong>COIN DETAILS</strong></h1>
   <div class="row justify-content-center">
     <div class="col-md-12">
       <div class="card border-0 shadow-lg" style="background-color: #c7e619;">
         <div class="card-body">
           <h3 class="card-title text-center mb-4">{{ coin.coin name }}</h3>
           <div class="row">
             <div class="col-md-6">
               <strong>Year:</strong> {{ coin.coin year }}
               <strong>Country:</strong> {{ coin.coin country}}
}}
               <strong>Material:</strong> {{
coin.coin material }}
               <strong>Weight:</strong> {{ coin.coin weight}}
}}
               <strong>Starting Bid:</strong> {{
coin.starting bid }}
               <strong>Coin Status:</strong> {{
coin.coin status }}
             </div>
             <div class="col-md-6">
               {% if coin.coin image %}
               <img src="{{ coin.coin image.url }}" alt="{{</pre>
coin.coin name }}" class="img-fluid rounded">
               <mark>{% else %}</mark>
               No Image
               <mark>{% endif %}</mark>
               <strong>Description:</strong> {{ coin.coin desc}}
}}
```

```
</div>
             </div>
           </div>
         </div>
         < div > & nbsp; < / div >
         <div class="text-center">
           <div class="btn-group">
              <form action="{% url 'coins:home' %}">
                <button type="submit" class="btn btn-secondary">Back to
Home</button>
             </form><span>&nbsp;</span>
             \{\% \text{ if request.user.id} == coin.created by id \%\}
             <form action="{% url 'edit coin' coin id=coin.coin id %}">
                <button type="submit" class="btn btn-warning">Edit Coin</button>
              </form><span>&nbsp;</span>
             {% endif %}
           </div>
         </div>
      </div>
    </div>
 </div>
<mark>{% endblock content %}</mark>
```

Now, next we are going to implement the "Buy Now" option for buying the coin from coin details page:

First create the models for cart items page according to the requirements :

So, we are gonna update the **models.py** like this:

```
class Coin(models.Model):

# Define choices for coin status

STATUS_CHOICES = (
    ('Select', 'Select'), # Placeholder option
    ('available', 'Available'),
    ('sold', 'Sold'),
    ('pending', 'Pending'),

coin_id = models.AutoField(primary_key=True) # Auto-incrementing primary key
    coin_image = models.ImageField(upload_to='coin_images/', null=True, blank=True) #

Image field to store coin image
    coin_name = models.CharField(max_length=100) # Char field for coin name
    coin_desc = models.TextField() # Text field for coin description
    coin_year = models.IntegerField() # Integer field for coin year
```

```
coin country = models.CharField(max length=50) # Char field for coin country
 coin material = models.CharField(max length=50) # Char field for coin material
 coin weight = models.FloatField() #Float field for coin weight
 starting bid = models.FloatField()
 rate = models.FloatField() # Float field for starting bid
 coin status = models.CharField(max length=50, choices=STATUS CHOICES) # Char
field with choices for coin status
 created by id = models.IntegerField(null=True, blank=True)
 def str (self):
 return self.coin name # Return the coin name as its string representation
class CartItem(models.Model):
 user = models.ForeignKey(User, on delete=models.CASCADE)
 coin = models.ForeignKey(Coin, on delete=models.CASCADE)
 quantity = models.PositiveIntegerField(default=1)
 price = models.FloatField()
 created at = models.DateTimeField(auto now add=True)
 def save(self, *args, **kwargs):
    # Set the price to the rate of the associated coin multiplied by the quantity
   self.price = self.coin.rate * self.quantity
   super().save(*args, **kwargs)
```

Then as usual we need to make sure we are migrating after the model creation via terminal:

```
python manage.py makemigrations
python manage.py migrate
```

Next update your **urls.py** to make the valid button links:

(This is for multiple purposes: Buying, cart page, saving changes, removing items)

```
from django.contrib import admin

from django.urls import path, include

from django.conf import settings

from django.conf.urls.static import static

from rest_framework import routers

from coins.views import CoinViewSet, CoinSearchView, coins_table, coin_details, edit_coin,

add_to_cart, cart, remove_item, save_changes
```

# Create a router for registering viewsets
router = routers.DefaultRouter()

```
# Register CoinViewSet with the router
router.register(r'coins', CoinViewSet)
# Define URL patterns
urlpatterns = f
# Admin site URL
path('admin/', admin.site.urls),
 # API endpoints for coins using the router
path('api/', include(router.urls)),
path('coins/search/<path:path params>/', CoinSearchView.as view(),
name='coin-search'),
path('coins/', coins table, name='coins-table'), # URL for the coins table HTML page
path('coin/<int:coin id>/', coin details, name='coin-details'), # URL for the coin details
page
path('edit-coin/<int:coin id>/', edit coin, name='edit coin'),
path('add-to-cart/<int:coin id>/', add to cart, name='add to cart'),
 path('cart/', cart, name='cart'),
path('remove item/<int:item id>/', remove item, name='remove item'),
path('save_changes/', save_changes, name='save_changes'),
path("", include(("coins.urls", "coins"), "coins")),
# Serve media files in DEBUG mode
if settings.DEBUG:
urlpatterns += static(settings.MEDIA URL, document root=settings.MEDIA ROOT)
Next make sure the views.py is updated:
from .models import Coin, Profile, SearchHistory, CartItem
@login required
def save changes(request):
 if request.method == 'POST':
   for key, value in request.POST.items():
      if key.startswith('quantity '):
         item id = int(key.split('')[1])
         quantity = int(value)
        cart item = CartItem.objects.get(pk=item id)
         cart item.quantity = quantity
```

cart item.price = cart item.coin.rate \* quantity

```
cart item.save()
    messages.success(request, 'Changes saved successfully!')
    return redirect('cart') # Assuming 'cart' is the name of the URL pattern for the cart page
 else:
    # Handle GET request (if needed)
@login required
def remove item(request, item id):
 item = get object or 404(CartItem, id=item id)
 item.delete()
 return redirect('cart')
@login required
def cart(request):
 user = request.user
 cart items = CartItem.objects.filter(user=user)
 # Calculate total price
 total price = sum(item.quantity * item.coin.rate for item in cart items)
 for item in cart items:
 item.price = item.quantity * item.coin.rate
return render(request, 'cart.html', {'cart items': cart items, 'total price': total price})
@login required
def add to cart(request, coin id):
 if request.method == 'POST':
    # Get the selected coin
    coin = Coin.objects.get(pk=coin\ id)
    # Get the current user
    user = request.user
    # Create a CartItem object
    cart item = CartItem.objects.create(user=user, coin=coin)
    # Redirect to the cart page
    return redirect('cart')
    # Handle GET request (if needed)
    Pass
Next place the buy now button in coin details page like this:
        <div class="text-center">
 <div class="btn-group">
```

<form action="{% url 'coins:home' %}">

Next you can proceed with the cart page view and create the **cart.html** in templates/ folder:

```
{% extends "base.html" %}
{% load bootstrap4 %}
{% block content %}
<div class="container mt-5">
 <h1 class="mb-4 font-weight-bold">Shopping Cart <a href="{% url "coins:home" %}"
class="btn btn-warning btn-sm">Return</a></h1>
 <div class="row">
  <div>&nbsp;</div>
  <div class="col-md-8">
    {% bootstrap messages %}
    {% if cart items %}
    <form action="{% url 'save changes' %}" method="post">
      {% csrf token %}
      <thead>
         #
          Coin Name
          Quantity
          Rate
          Price
          Actions
         </thead>
```

```
{% for item in cart items %}
           {{ forloop.counter }}
             {{ item.coin.coin name }}
             <td>
               <div class="input-group">
                 <div class="input-group-prepend">
                   <button class="btn btn-outline-danger" type="button"</pre>
onclick="decrementQuantity({{ item.id }})">-</button>
                 </div>
                 <input type="text" class="form-control text-center font-weight-bold"</pre>
name="quantity {{ item.id }}" id="quantity {{ item.id }}" value="{{ item.quantity }}"
readonly>
                <div class="input-group-append">
                   <button class="btn btn-outline-success" type="button"</pre>
onclick="incrementQuantity({{ item.id }})">+</button>
                </div>
               </div>
             {{ item.coin.rate }}
             {{ item.price }}
             <a href="\{"> url 'remove item' item.id \( \} \)" class="btn btn-danger"
btn-sm">Remove</a>
             {% endfor %}
           <tr>
             Total
             {{ total price }}
             <td></td>
           <div class="text-center">
         <button type="submit" class="btn btn-primary btn-sm">Save
Changes</button>
         <a href="#" class="btn btn-success btn-sm">Checkout</a>
       </div>
     </form>
     {% else %}
     <div class="alert alert-info" role="alert">
       There are no items in your shopping cart.
     </div>
     {% endif %}
   </div>
 </div>
</div>
```

```
<script>
 function updatePrice(itemId) {
    var quantityInput = document.getElementById('quantity ' + itemId);
    var priceCell =
document.querySelector(`#quantity ${itemId}`).closest('tr').querySelector('.price');
    var rate = parseFloat(priceCell.previousElementSibling.textContent);
    var quantity = parseInt(quantityInput.value);
    var price = rate * quantity;
    price = price.toFixed(1);
    priceCell.textContent = price;
    updateTotalPrice();
 function updateTotalPrice() {
    var totalPrice = 0;
    var priceCells = document.querySelectorAll('.price');
    priceCells.forEach(function(cell) {
      totalPrice += parseFloat(cell.textContent);
    document.querySelector('.total-price').textContent = totalPrice.toFixed(1);
 function incrementQuantity(itemId) {
    var inputField = document.getElementById('quantity ' + itemId);
    var currentValue = parseInt(inputField.value);
    if (!isNaN(currentValue)) {
      inputField.value = currentValue + 1;
      updatePrice(itemId);
 function decrementQuantity(itemId) {
    var inputField = document.getElementById('quantity ' + itemId);
    var currentValue = parseInt(inputField.value);
    if (!isNaN(currentValue) && currentValue > 1) {
      inputField.value = currentValue - 1;
      updatePrice(itemId);
<mark>{% endblock content %}</mark>
```

Here, you can do the following actions:

- 1. By default, one quantity will be added when you buy the coin, it will redirect to the cart page after your purchase.
- 2. You can increase and decrease the number of coins you wish to purchase.
- 3. You can remove the purchase at any time as you wish which product should be removed accurately.

- 4. You can modify the number of coins at flexible timings, as you can access the cart page from home itself from navbar contents.
- 5. For every action you done, you can able to see the price and total amount updating itself dynamically.
- 6. So, once you finalised your purchase with needed coins and you can add multiple coin products to the cart page as you needed, you can proceed to make the changes to the cart page.

