

# **PAMANTASAN NG LUNGSOD NG VALENZUELA**

## **PF102**

### **EVENT DRIVEN PROGRAMMING**

## **Financeo**

### **System Documentation**

**Group Name:**  
BACKLOGS

**Members:**  
Cruz, Kerby (System Developer)  
Gonzales, Gabriel Aaron (System Developer)  
Suson, Jeriel Samuel (Design & Documentation)  
Tato, Adrian (Design & Documentation)

## INTRODUCTION

This document outlines the requirements, features, and considerations for the developments of the Personal Finance & Budgeting Website. The goal of the project is to provide users with an intuitive platform to manage their personal finances, track spending, create budgets, and generate insightful reports, all in a secure and user-friendly environment.

## FEATURES

### 1. User Authentication

- 1.1: Users can create a new account with an email, username, and a strong password.
- 1.2: User passwords are securely hashed and salted (handled by Django's auth system).
- 1.3: Users can log in with their credentials.
- 1.4: Users are able to log out.
- 1.5: Users are able to reset their password via a secure email link.

### 2. Dashboard

- 2.1: Upon login, users are presented with a dashboard summarizing their financial state.
- 2.2: The dashboard displays:
  - Total balance across all accounts.
  - A high-level overview of monthly budget status
  - A list of recent transactions.
  - Quick-add forms for new transactions.

### 3. Account Management

- 3.1: Users are able to perform CRUD (Create, Read, Update, Delete) operations for their financial accounts.
- 3.2: Account properties includes:
  - Account Name
  - Account Type
  - Current Balance

### 4. Transaction Management

- 4.1: Users are able to perform CRUD operations for their transactions.

**4.2:** Transaction properties includes:

- Date
- Amount
- Type ("Income" or "Expense")
- Category (linked from user-defined categories)
- Account (linked from user's accounts)
- Description (optional)

**4.3:** When a transaction is added, updated, or deleted, the balance of the associated account is automatically recalculated.

## 5. Category Management

**5.1:** Users can perform CRUD operations for their income and expense categories.

**5.2:** Each category has a name and a type ("Income" or "Expense").

## 6. Budget Management

**6.1:** Users are able to perform CRUD operations for their monthly budgets.

**6.2:** The budget defines the spending limit for a specific Category over a specific time

period (e.g., "Groceries" - \$500 - November 2025).

**6.3:** The system displays the progress against each budget (e.g., "\$250 of \$500 spent").

## 7. Reporting

**7.1:** The system provides the reports on spending by category (pie chart).

**7.2:** The system provides reports on income vs. expense over time (bar chart).

**7.3:** All reports are filterable by date range.

## 8. Security

**8.1:** All user data is private and segregated. The user cannot see, modify, or even know about the existence of data belonging to another user.

- (Implementation: All data models have a mandatory Foreign Key to the User model, and all database queries are filtered by user=request.user.)

**8.2:** The application uses Django's built-in protections against common vulnerabilities (SQL Injection via the ORM, Cross-Site Scripting (XSS) via templates, and Cross-Site Request Forgery (CSRF) via tokens).

**8.3:** All web traffic is served over HTTPS (SSL/TLS).

**8.4:** Application secrets (secret key, database passwords) are not hard-coded and are managed via environment variables.

## CODES

### Financeo/urls.py

```

1  from django.contrib import admin
2  from django.urls import path, include
3  from django.conf import settings
4  from django.conf.urls.static import static
5
6  urlpatterns = [
7      path('admin/', admin.site.urls),
8      path('', include('users.urls')),
9      path('dashboard/', include('finance.urls')),
10     path('categories/', include('categories.urls')),
11     path('reports/', include('reports.urls')),
12     path('settings/', include('settings.urls')),
13     path('transactions/', include('transactions.urls')),
14 ]
15
16 if settings.DEBUG:
17     urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)

```

### categories/apps.py

```

1  from django.apps import AppConfig
2
3
4  class CategoriesConfig(AppConfig):
5      default_auto_field = 'django.db.models.BigAutoField'
6      name = 'categories'

```

### categories/forms.py

```

1  from django import forms
2  from finance.models import Category
3
4  class CategoryForm(forms.ModelForm):
5      class Meta:
6          model = Category
7          fields = ['name', 'type']
8          widgets = {
9              'name': forms.TextInput(attrs={
10                  'class': 'w-full px-3 py-2 border border-gray-300 rounded-lg focus:outline-none focus:ring-2 focus:ring-blue-500',
11                  'placeholder': 'Category name',
12              }),
13              'type': forms.Select(attrs={
14                  'class': 'w-full px-3 py-2 border border-gray-300 rounded-lg focus:outline-none focus:ring-2 focus:ring-blue-500',
15              }),
16          }
17
18      def __init__(self, *args, user=None, **kwargs):
19          super().__init__(*args, **kwargs)
20          self.user = user
21
22      def clean_name(self):
23          name = self.cleaned_data.get('name')
24          type_val = self.cleaned_data.get('type')
25
26          if not name or not type_val:
27              return name

```

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```

27         return name
28
29     # Check if category with same name and type exists for this user
30     query = Category.objects.filter(user=self.user, name=name, type=type_val)
31
32     # If updating, exclude the current instance
33     if self.instance.pk:
34         query = query.exclude(pk=self.instance.pk)
35
36     if query.exists():
37         raise forms.ValidationError(
38             f"You already have a {type_val} category named '{name}'."
39         )
40
41     return name

```

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## categories/urls.py

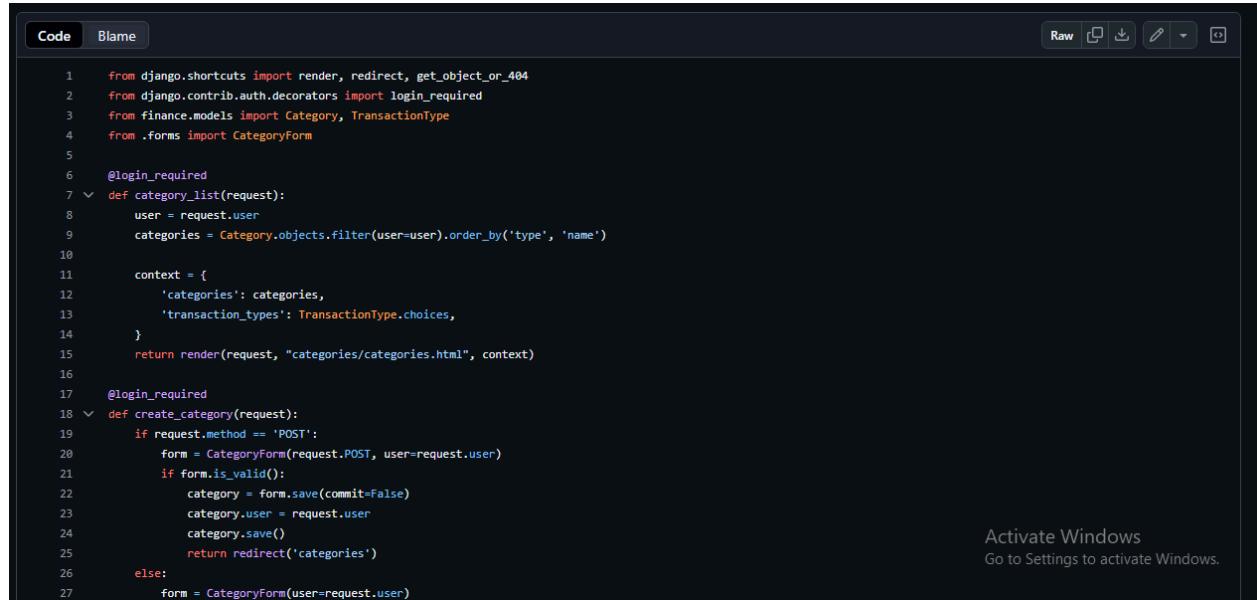


```

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5      path("", views.category_list, name="categories"),
6      path("create/", views.create_category, name="create_category"),
7      path("<int:category_id>/update/", views.update_category, name="update_category"),
8      path("<int:category_id>/delete/", views.delete_category, name="delete_category"),
9  ]

```

## categories/views.py



```

1  from django.shortcuts import render, redirect, get_object_or_404
2  from django.contrib.auth.decorators import login_required
3  from finance.models import Category, TransactionType
4  from .forms import CategoryForm
5
6  @login_required
7  def category_list(request):
8      user = request.user
9      categories = Category.objects.filter(user=user).order_by('type', 'name')
10
11     context = {
12         'categories': categories,
13         'transaction_types': TransactionType.choices,
14     }
15     return render(request, "categories/categories.html", context)
16
17  @login_required
18  def create_category(request):
19      if request.method == 'POST':
20          form = CategoryForm(request.POST, user=request.user)
21          if form.is_valid():
22              category = form.save(commit=False)
23              category.user = request.user
24              category.save()
25              return redirect('categories')
26          else:
27              form = CategoryForm(user=request.user)

```

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```

27         form = CategoryForm(user=request.user)
28
29     context = {
30         'form': form,
31         'action': 'Create',
32     }
33     return render(request, 'categories/categories.html', context)
34
35     @login_required
36     def update_category(request, category_id):
37         category = get_object_or_404(Category, id=category_id, user=request.user)
38         if request.method == 'POST':
39             form = CategoryForm(request.POST, instance=category, user=request.user)
40             if form.is_valid():
41                 form.save()
42                 return redirect('categories')
43             else:
44                 form = CategoryForm(instance=category, user=request.user)
45
46             context = {
47                 'form': form,
48                 'category': category,
49                 'action': 'Update',
50             }
51         return render(request, 'categories/categories.html', context)
52
53     @login_required
54     def delete_category(request, category_id):
55         category = get_object_or_404(Category, id=category_id, user=request.user)
56         if request.method == 'POST':
57
58             category.delete()
59             return redirect('categories')
60         context = {
61             'category': category,
62         }
63         return render(request, 'categories/categories.html', context)

```

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## categories/templates/categories/categories.html

```

Code Blame Raw ⌂ ⌄ ⌅ ⌆
1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>{% if action %}{% action %} Category{% else %}Categories{% endif %}</title>
8      {% tailwind_css %}
9  </head>
10 <body class="bg-[#318f76]">
11     <div class="flex min-h-screen">
12         <!-- Sidebar -->
13         <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col sticky top-0 h-screen">
14             <div class="flex items-center p-6">
15                 
16                 <span class="font-semibold text-white">{{ user.username }}</span>
17             </div>
18
19             <nav class="flex-1 px-4 py-2 space-y-2">
20                 <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Dashboard</a>
21                 <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Accounts</a>
22                 <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
23                 <a href="{% url 'categories' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Category</a>
24                 <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Budgets</a>
25                 <a href="{% url 'reports' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Reports</a>
26                 <a href="{% url 'settings' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Settings</a>

```

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```

87          <div>
88              <label class="block text-sm font-medium text-gray-700 mb-1">Category Name</label>
89              {{ form.name }}
90              {% if form.name.errors %}
91                  <div class="text-red-600 text-sm mt-1">{{ form.name.errors }}</div>
92              {% endif %}
93          </div>
94          <div>
95              <label class="block text-sm font-medium text-gray-700 mb-1">Type</label>
96              {{ form.type }}
97              {% if form.type.errors %}
98                  <div class="text-red-600 text-sm mt-1">{{ form.type.errors }}</div>
99              {% endif %}
100         </div>
101         {% if form.non_field_errors %}
102             <div class="bg-red-100 border border-red-400 text-red-700 px-4 py-3 rounded">
103                 {{ form.non_field_errors }}
104             </div>
105         {% endif %}
106     </div>
107     <div class="mt-6 flex gap-3">
108         <button type="submit" class="flex-1 px-8 py-4 bg-blue-600 text-white rounded-lg hover:bg-blue-700 font-bold text-lg transition-all duration-200">{{ action }} Category
109         <a href="{% url 'categories' %}" class="flex-1 px-8 py-4 bg-gray-600 text-white rounded-lg hover:bg-gray-700 font-bold text-lg transition-all duration-200">Cancel
110     </div>
111     </form>
112 </div>
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
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```

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```

117         </div>
118     </div>
119     {% endif %}
120
121     <!-- Delete Confirmation View -->
122     {% if category and not action %}
123         <div class="max-w-3xl mx-auto">
124             <h1 class="text-4xl font-bold text-white mb-8 drop-shadow-lg">Delete Category</h1>
125
126             <div class="bg-white rounded-xl shadow-2xl overflow-hidden">
127                 <!-- Warning Banner -->
128                 <div class="bg-gradient-to-r from-red-50 to-orange-50 border-l-4 border-red-500 p-6">
129                     <div class="flex items-start">
130                         <div class="flex-shrink-0">
131                             <svg class="h-6 w-6 text-red-500" fill="none" viewBox="0 0 24 24" stroke="currentColor">
132                                 <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M12 9v2m0 4n.01m-6.938 4h13.856c1.54 0 2.502-1.667 1.732-3L13.75 9z" />
133                         </svg>
134                     </div>
135                     <div class="ml-3">
136                         <h3 class="text-lg font-semibold text-red-800">Confirm Deletion</h3>
137                         <p class="mt-1 text-sm text-red-700">Are you sure you want to delete this category? This action cannot be undone.</p>
138                     </div>
139                 </div>
140             </div>
141
142             <!-- Category Details -->
143             <div class="p-6">
144                 <div class="bg-gray-50 rounded-lg p-6 border border-gray-200 mb-6">
145                     <h3 class="text-lg font-bold text-gray-800 mb-4">Category Details</h3>
146                     <div class="space-y-3">

```

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```
147             <div class="flex justify-between items-center py-2 border-b border-gray-200">
148                 <span class="text-gray-600 font-medium">Name:</span>
149                 <span class="text-gray-900 font-semibold">{{ category.name }}</span>
150             </div>
151             <div class="flex justify-between items-center py-2">
152                 <span class="text-gray-600 font-medium">Type:</span>
153                 <span class="px-3 py-1 rounded-full text-sm font-medium {&gt; if category.type == 'INCOME' %}bg-green-100 text-green-800{&gt; else %}bg-red-100 text-white font-medium{&gt; {{ category.get_type_display }}</span>
154             </div>
155         </div>
156     </div>
157 </div>
158
159
160     <form method="post" class="mt-8">
161         {&gt; csrf_token &lt;}
162         <div class="grid grid-cols-2 gap-4">
163             <button type="submit" class="px-8 py-4 bg-red-600 text-white rounded-lg hover:bg-red-700 font-bold text-lg transition-all duration-200 shadow-md w-full">Delete Category</button>
164             <a href="{&gt; url 'categories' &lt;}" class="px-8 py-4 bg-green-600 text-white rounded-lg hover:bg-green-700 font-bold text-lg transition-all duration-200 shadow-md w-full">Cancel</a>
165         </div>
166     </form>
167 </div>
168
169 </div>
170 </div>
171 </div>
172 </div>
173 </div>
174 {&gt; endif &lt;}
175
176 </main>
177 </div>
```

## **finance/admin.py**

```
1 from django.contrib import admin
2 from .models import Account, Category, Transaction, Budget
3
4 # Register your models here.
5 admin.site.register(Account)
6 admin.site.register(Category)
7 admin.site.register(Transaction)
8 admin.site.register(Budget)
```

## finance/apps.py

```
1 from django.apps import AppConfig  
2  
3  
4 class FinanceConfig(AppConfig):  
5     default_auto_field = 'django.db.models.BigAutoField'  
6     name = 'finance'
```

## finance/forms.py

```
 1  from django import forms
 2  from .models import Account, Budget
 3
 4  class AccountForm(forms.ModelForm):
 5      class Meta:
 6          model = Account
 7          fields = ['name', 'type', 'current_balance']
 8          widgets = {
 9              'name': forms.TextInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
10              'type': forms.Select(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
11              'current_balance': forms.NumberInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'})
12          }
13
14  class UpdateAccountForm(AccountForm):
15      class Meta(AccountForm.Meta):
16          fields = ['name', 'type', 'current_balance']
17
18  class BudgetForm(forms.ModelForm):
19      class Meta:
20          model = Budget
21          fields = ['category', 'amount', 'start_date', 'end_date']
22          widgets = {
23              'category': forms.Select(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
24              'amount': forms.NumberInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
25              'start_date': forms.DateInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
26              'end_date': forms.DateInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'})
```

```

27         }
28
29     class UpdateBudgetForm(BudgetForm):
30         class Meta(BudgetForm.Meta):
31             fields = ['category', 'amount', 'start_date', 'end_date']

```

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## finance/models.py

```

1  from django.db import models
2  from django.contrib.auth.models import User
3  from django.db import transaction as db_transaction
4  from decimal import Decimal
5  from django.db.models.signals import post_save
6  from django.dispatch import receiver
7
8  # Create your models here.
9  class TransactionType(models.TextChoices):
10     INCOME = 'INCOME', 'Income'
11     EXPENSE = 'EXPENSE', 'Expense'
12
13     class AccountType(models.TextChoices):
14         CHECKING = 'CHECKING', 'Checking'
15         SAVINGS = 'SAVINGS', 'Savings'
16         CREDIT_CARD = 'CREDIT_CARD', 'Credit Card'
17         CASH = 'CASH', 'Cash'
18
19
20     # --- Models based on ERD ---
21
22     class Profile(models.Model):
23         """
24             Represents a user's profile, with additional information like a profile picture.
25         """
26         user = models.OneToOneField(User, on_delete=models.CASCADE)
27         profile_picture = models.ImageField(upload_to='profile_pics/', default='profile_pics/default.jpg')

```

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```

28
29     def __str__(self):
30         return f'{self.user.username} Profile'
31
32     @receiver(post_save, sender=User)
33     def create_or_update_user_profile(sender, instance, created, **kwargs):
34         if created:
35             Profile.objects.create(user=instance)
36             instance.profile.save()
37
38
39     class Account(models.Model):
40         """
41             Represents a user's financial account (e.g., checking, savings).
42             Tied to NFR-1.1: Belongs to one user.
43         """
44         user = models.ForeignKey(
45             User,
46             on_delete=models.CASCADE,
47             related_name="accounts"
48         )
49         name = models.CharField(max_length=100)
50         type = models.CharField(
51             max_length=50,
52             choices=AccountType.choices,
53             default=AccountType.CHECKING
54         )
55         current_balance = models.DecimalField(
56             max_digits=12,
57             decimal_places=2,

```

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```

58         default=0.00
59     )
60
61     def __str__(self):
62         return f'{self.name} ({self.get_type_display()}) - {self.user.username}'
63
64     class Meta:
65         # A user cannot have two accounts with the same name
66         unique_together = ('user', 'name')
67
68
69     class Category(models.Model):
70         """
71             A user-defined category for transactions (e.g., "Groceries", "Salary").
72             Tied to NFR-1.1: Belongs to one user.
73             """
74         user = models.ForeignKey(
75             User,
76             on_delete=models.CASCADE,
77             related_name="categories"
78         )
79         name = models.CharField(max_length=100)
80     type = models.CharField(
81         max_length=10,
82         choices=TransactionType.choices,
83         default=TransactionType.EXPENSE
84     )
85
86     def __str__(self):
87
88         return f'{self.name} ({self.get_type_display()})'
89
90     class Meta:
91         verbose_name_plural = "Categories"
92         # A user cannot have two categories with the same name and type
93         unique_together = ('user', 'name', 'type')
94
95
96     class Transaction(models.Model):
97         """
98             Represents a single income or expense event.
99             Implements FR-4.3: Automatically updates Account balance on save/delete.
100            """
101    user = models.ForeignKey(
102        User,
103        on_delete=models.CASCADE,
104        related_name="transactions"
105    )
106    account = models.ForeignKey(
107        Account,
108        on_delete=models.CASCADE,
109        related_name="transactions"
110    )
111    category = models.ForeignKey(
112        Category,
113        on_delete=models.PROTECT, # Don't delete category if transactions use it
114        related_name="transactions"
115    )
116    amount = models.DecimalField(max_digits=12, decimal_places=2)

```

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```

116     date = models.DateField()
117     type = models.CharField(
118         max_length=10,
119         choices=TransactionType.choices
120     )
121     description = models.CharField(max_length=255, blank=True, null=True)
122
123     def __str__(self):
124         return f"{self.get_type_display()} - {self.amount} on {self.date}"
125
126     def save(self, *args, **kwargs):
127         """
128             Custom save method to implement FR-4.3 (auto-update balance),
129             Wraps the logic in an atomic transaction.
130             """
131         is_new = self.pk is None
132
133         with db_transaction.atomic():
134             if is_new:
135                 # This is a new transaction
136                 if self.type == TransactionType.INCOME:
137                     self.account.current_balance += self.amount
138                 else: # EXPENSE
139                     self.account.current_balance -= self.amount
140             else:
141                 # This is an update to an existing transaction
142                 old_self = Transaction.objects.get(pk=self.pk)
143
144                 # 1. Revert the old transaction from its account
145
146                 # (Handles case where account itself was changed)
147                 if old_self.type == TransactionType.INCOME:
148                     old_self.account.current_balance -= old_self.amount
149                 else:
150                     old_self.account.current_balance += old_self.amount
151                 old_self.account.save()
152
153                 # 2. Apply the new transaction to its account
154                 if self.type == TransactionType.INCOME:
155                     self.account.current_balance += self.amount
156                 else:
157                     self.account.current_balance -= self.amount
158
159                 self.account.save()
160                 super().save(*args, **kwargs) # Save the transaction itself
161
162     def delete(self, *args, **kwargs):
163         """
164             Custom delete method to implement FR-4.3 (auto-update balance),
165             Reverts the transaction's effect on the account balance.
166             """
167         with db_transaction.atomic():
168             if self.type == TransactionType.INCOME:
169                 self.account.current_balance -= self.amount
170             else: # EXPENSE
171                 self.account.current_balance += self.amount
172             self.account.save()
173             super().delete(*args, **kwargs) # Delete the transaction itself

```

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```

174     class Meta:
175         ordering = ['-date', '-id']
176
177
178     class Budget(models.Model):
179         """
180             A user-defined budget for a specific category over a time period.
181             Tied to NFR-1.1: Belongs to one user.
182             """
183
184         user = models.ForeignKey(
185             User,
186             on_delete=models.CASCADE,
187             related_name="budgets"
188         )
189         category = models.ForeignKey(
190             Category,
191             on_delete=models.CASCADE, # If category is deleted, budget is too
192             related_name="budgets"
193         )
194         amount = models.DecimalField(max_digits=12, decimal_places=2)
195         start_date = models.DateField()
196         end_date = models.DateField()
197
198     def __str__(self):
199         return f"Budget for {self.category.name} ({self.start_date} to {self.end_date})"
200
201     class Meta:
202         # A user cannot have overlapping budgets for the same category
203         unique_together = ('user', 'category', 'start_date', 'end_date')

```

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## finance/urls.py

```

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5      path('', views.dashboard_view, name='dashboard'),
6      path('accounts/', views.accounts_view, name='accounts'),
7      path('accounts/update/<int:account_id>', views.update_account, name='update_account'),
8      path('budgets/', views.budgets_view, name='budgets'),
9      path('budgets/update/<int:budget_id>', views.update_budget, name='update_budget'),
10 ]

```

## finance/views.py

```

1  from django.shortcuts import render, redirect, get_object_or_404
2  from django.contrib.auth.decorators import login_required
3  from django.db.models import Sum, F
4  from finance.models import Transaction, Account, Category, AccountType, Budget
5  from .forms import AccountForm, UpdateAccountForm, BudgetForm, UpdateBudgetForm
6  from django.utils import timezone
7  from datetime import timedelta
8
9  # Create your views here.
10 @login_required
11 def dashboard_view(request):
12     # Get the current user
13     user = request.user
14
15     # Define the time period for the report (e.g., last 30 days)
16     end_date = timezone.now().date()
17     start_date = end_date - timedelta(days=30)
18
19     # Filter transactions for the current user and the last 30 days
20     transactions = Transaction.objects.filter(user=user, date__range=[start_date, end_date])
21
22     # --- 1. Income vs. Expense Summary ---
23     income_total = transactions.filter(type='INCOME').aggregate(total=Sum('amount'))['total'] or 0
24     expense_total = transactions.filter(type='EXPENSE').aggregate(total=Sum('amount'))['total'] or 0
25
26     # --- 2. Top 5 Expense Categories ---
27     top_expense_categories = (

```

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```

28     transactions.filter(type='EXPENSE')
29         .values('category__name')
30         .annotate(total_spent=Sum('amount'))
31         .order_by('-total_spent')[5:]
32     )
33
34 # --- 3. Account Balances ---
35 accounts = Account.objects.filter(user=user)
36
37 # --- 4. Recent Transactions ---
38 recent_transactions = Transaction.objects.filter(user=user).order_by('-date', '-id')[:10]
39
40 context = {
41     'start_date': start_date,
42     'end_date': end_date,
43     'income_total': income_total,
44     'expense_total': expense_total,
45     'top_expense_categories': top_expense_categories,
46     'accounts': accounts,
47     'recent_transactions': recent_transactions,
48 }
49
50 return render(request, 'finance/dashboard.html', context)
51
52 @login_required
53 def accounts_view(request):
54     if request.method == 'POST':
55         action = request.POST.get('action')
56         if action == 'create':
57             form = AccountForm(request.POST)

58             if form.is_valid():
59                 account = form.save(commit=False)
60                 account.user = request.user
61                 account.save()
62             elif action == 'delete':
63                 account_id = request.POST.get('account_id')
64                 Account.objects.filter(id=account_id, user=request.user).delete()
65             elif action == 'update':
66                 account_id = request.POST.get('account_id')
67                 return redirect('update_account', account_id=account_id)
68             return redirect('accounts')
69
70 accounts = Account.objects.filter(user=request.user)
71 form = AccountForm()
72
73 context = {
74     'accounts': accounts,
75     'form': form,
76 }
77 return render(request, 'finance/accounts.html', context)
78
79 @login_required
80 def update_account(request, account_id):
81     account = get_object_or_404(Account, id=account_id, user=request.user)
82     if request.method == 'POST':
83         form = UpdateAccountForm(request.POST, instance=account)
84         if form.is_valid():
85             form.save()
86             return redirect('accounts')
87     else:

```

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```

88         form = UpdateAccountForm(instance=account)
89     return render(request, 'finance/update_account.html', {'form': form, 'account': account})
90
91     @login_required
92     def account_transactions_view(request, account_id):
93         account = get_object_or_404(Account, id=account_id, user=request.user)
94         transactions = Transaction.objects.filter(account=account, user=request.user).order_by('-date')
95         context = {
96             'account': account,
97             'transactions': transactions,
98         }
99         return render(request, 'finance/account_transactions.html', context)
100
101    @login_required
102    def budgets_view(request):
103        if request.method == 'POST':
104            action = request.POST.get('action')
105            if action == 'create':
106                form = BudgetForm(request.POST)
107                if form.is_valid():
108                    budget = form.save(commit=False)
109                    budget.user = request.user
110                    budget.save()
111            elif action == 'delete':
112                budget_id = request.POST.get('budget_id')
113                Budget.objects.filter(id=budget_id, user=request.user).delete()
114            elif action == 'update':
115                budget_id = request.POST.get('budget_id')
116                return redirect('update_budget', budget_id=budget_id)
117            return redirect('budgets')
118
119    budgets = Budget.objects.filter(user=request.user)
120    form = BudgetForm()
121    form.fields['category'].queryset = Category.objects.filter(user=request.user)
122
123    context = {
124        'budgets': budgets,
125        'form': form,
126    }
127    return render(request, 'finance/budgets.html', context)
128
129    @login_required
130    def update_budget(request, budget_id):
131        budget = get_object_or_404(Budget, id=budget_id, user=request.user)
132        if request.method == 'POST':
133            form = UpdateBudgetForm(request.POST, instance=budget)
134            if form.is_valid():
135                form.save()
136                return redirect('budgets')
137            else:
138                form = UpdateBudgetForm(instance=budget)
139        return render(request, 'finance/update_budget.html', {'form': form, 'budget': budget})
140

```

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## finance/templates/finance/accounts.html

```

1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4      <head>
5          <meta charset="UTF-8">
6          <meta name="viewport" content="width=device-width, initial-scale=1.0">
7          <title>Financial Accounts</title>
8          {% tailwind_css %}
9      </head>
10     <body class="bg-[#318f76]">
11
12         <div class="flex min-h-screen">
13             <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col">
14                 <div class="flex items-center p-6">
15                     
16                     <span class="font-semibold text-white">{{ user.username }}</span>
17                 </div>
18
19                 <nav class="flex-1 px-4 py-2 space-y-2">
20                     <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Dashboard</a>
21                     <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Accounts</a>
22                     <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
23                     <a href="{% url 'categories' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Category</a>
24                     <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Budgets</a>
25                     <a href="{% url 'reports' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Reports</a>
26                     <a href="{% url 'settings' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Settings</a>
27                 </nav>
28             </aside>
29             <div class="flex-grow p-6">
30                 <div class="grid grid-cols-2 gap-4">
31                     <div>
32                         <h2>Financial Summary</h2>
33                         <p>Total Assets: $120,000</p>
34                         <p>Total Liabilities: $80,000</p>
35                         <p>Net Worth: $40,000</p>
36                     </div>
37                     <div>
38                         <h2>Recent Transactions</h2>
39                         <table border="1">
40                             <thead>
41                                 <tr>
42                                     <th>Type</th>
43                                     <th>Amount</th>
44                                     <th>Date</th>
45                                 </tr>
46                             </thead>
47                             <tbody>
48                                 <tr>
49                                     <td>Deposit</td>
50                                     <td>$500</td>
51                                     <td>2023-09-15</td>
52                                 </tr>
53                                 <tr>
54                                     <td>Withdrawal</td>
55                                     <td>$300</td>
56                                     <td>2023-09-10</td>
57                                 </tr>
58                                 <tr>
59                                     <td>Transfer</td>
60                                     <td>$200</td>
61                                     <td>2023-09-05</td>
62                                 </tr>
63                             </tbody>
64                         </table>
65                     </div>
66                 </div>
67             </div>
68         </div>
69     </body>
70 
```

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```

27      </nav>
28
29      <div class="p-4">
30          <a href="{% url 'logout' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Log-out</a>
31      </div>
32  </aside>
33
34  <main class="flex-1 p-10">
35      {% block content %}
36      <div class="mb-8">
37          <h2 class="text-2xl font-bold text-white mb-4">Add New Account</h2>
38          <form method="post" class="bg-white p-6 rounded-lg shadow-md">
39              {% csrf_token %}
40              <input type="hidden" name="action" value="create">
41              {{ form.as_p }}
42              <div class="mt-4">
43                  <button type="submit" class="inline-flex justify-center py-2 px-4 border border-transparent shadow-sm text-sm font-medium rounded-md text-white bg-in
44                      Add Account
45                  </button>
46              </div>
47          </form>
48      </div>
49
50      <div>
51          <h2 class="text-2xl font-bold text-white mb-4">Your Accounts</h2>
52          <div class="bg-white p-6 rounded-lg shadow-md">
53              <table class="min-w-full divide-y divide-gray-200">
54                  <thead class="bg-gray-50">
55                      <tr>
56                          <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Account Name</th>
57
58                          <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Type</th>
59                          <th scope="col" class="relative px-6 py-3">
60                              <span class="sr-only">Delete</span>
61                          </th>
62                      </tr>
63                  </thead>
64                  <tbody class="bg-white divide-y divide-gray-200">
65                      {% for account in accounts %}
66                      <tr>
67                          <td class="px-6 py-4 whitespace-nnowrap text-sm font-medium text-gray-900">{{ account.name }}</td>
68                          <td class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500">{{ account.get_type_display }}</td>
69                          <td class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500">${{ account.current_balance|floatformat:2 }}</td>
70                          <td class="px-6 py-4 whitespace-nnowrap text-right text-sm font-medium">
71                              <form method="post" class="inline">
72                                  {% csrf_token %}
73                                  <input type="hidden" name="action" value="update">
74                                  <input type="hidden" name="account_id" value="{{ account.id }}>
75                                  <button type="submit" class="text-blue-600 hover:text-blue-900">Update</button>
76                              </form>
77                          </td>
78                          <td class="px-6 py-4 whitespace-nnowrap text-right text-sm font-medium">
79                              <form method="post" class="inline">
80                                  {% csrf_token %}
81                                  <input type="hidden" name="action" value="delete">
82                                  <input type="hidden" name="account_id" value="{{ account.id }}>
83                                  <button type="submit" class="text-red-600 hover:text-red-900">Delete</button>
84                              </form>
85                          </td>
86                      </tr>
87
88                      {% empty %}
89                      <tr>
90                          <td colspan="4" class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500 text-center">No accounts found.</td>
91                      </tr>
92                  {% endfor %}
93              </tbody>
94          </table>
95      </div>
96      {% endblock %}
97  </main>
98  </div>
99
100 </body>
101 </html>
```

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## finance/templates/finance/budgets.html

```

1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Budgets</title>
8      {% tailwind_css %}</head>
9  <body class="bg-[#318f76]">
10
11     <div class="flex min-h-screen">
12         <aside class="w-00 bg-[#34a446] text-gray-300 flex flex-col">
13             <div class="flex items-center p-6">
14                 
15                 <span class="font-semibold text-white">{{ user.username }}</span>
16             </div>
17
18             <nav class="flex-1 px-4 py-2 space-y-2">
19                 <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Dashboard</a>
20                 <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Accounts</a>
21                 <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
22                 <a href="{% url 'categories' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Category</a>
23                 <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Budgets</a>
24                 <a href="{% url 'reports' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Reports</a>
25                 <a href="{% url 'settings' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Settings</a>
26             </nav>
27
28             <div class="p-4">
29                 <a href="{% url 'logout' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Log-out</a>
30             </div>
31         </aside>
32
33         <main class="flex-1 p-10">
34             {% block content %}</main>
35             <div class="mb-8">
36                 <h2 class="text-2xl font-bold text-white mb-4">Add New Budget</h2>
37                 <form method="post" class="bg-white p-6 rounded-lg shadow-md">
38                     {% csrf_token %}
39                     <input type="hidden" name="action" value="create">
40                     {{ form.as_p }}
41                     <div class="mt-4">
42                         <button type="submit" class="inline-flex justify-center py-2 px-4 border border-transparent shadow-sm text-sm font-medium rounded-md text-white bg-inactive">
43                             Add Budget
44                         </button>
45                     </div>
46                 </form>
47             </div>
48
49             <div>
50                 <h2 class="text-2xl font-bold text-white mb-4">Your Budgets</h2>
51                 <div class="bg-white p-6 rounded-lg shadow-md">
52                     <table class="min-w-full divide-y divide-gray-200">
53                         <thead class="bg-gray-50">
54                             <tr>
55                                 <th scopes="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Category</th>
56                             ...
57                         </thead>
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57             <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Amount</th>
58             <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">Start Date</th>
59             <th scope="col" class="px-6 py-3 text-left text-xs font-medium text-gray-500 uppercase tracking-wider">End Date</th>
60             <span class="sr-only">Delete</span>
61         </th>
62     </tr>
63   </thead>
64   <tbody class="bg-white divide-y divide-gray-200">
65     {% for budget in budgets %}
66       <tr>
67         <td class="px-6 py-4 whitespace-nnowrap text-sm font-medium text-gray-900">{{ budget.category.name }}</td>
68         <td class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500">${{ budget.amount|floatformat:2 }}</td>
69         <td class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500">{{ budget.start_date }}</td>
70         <td class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500">{{ budget.end_date }}</td>
71         <td class="px-6 py-4 whitespace-nnowrap text-right text-sm font-medium">
72           <form method="post" class="inline">
73             {% csrf_token %}
74             <input type="hidden" name="action" value="update">
75             <input type="hidden" name="budget_id" value="{{ budget.id }}">
76             <button type="submit" class="text-blue-600 hover:text-blue-900">Update</button>
77           </form>
78         </td>
79         <td class="px-6 py-4 whitespace-nnowrap text-right text-sm font-medium">
80           <form method="post" class="inline">
81             {% csrf_token %}
82             <input type="hidden" name="action" value="delete">
83             <input type="hidden" name="budget_id" value="{{ budget.id }}">
84             <button type="submit" class="text-red-600 hover:text-red-900">Delete</button>
85           </form>
86       </tr>
87     {% empty %}
88   <tr>
89     <td colspan="5" class="px-6 py-4 whitespace-nnowrap text-sm text-gray-500 text-center">No budgets found.</td>
90   </tr>
91   {% endfor %}
92   </tbody>
93 </table>
94 </div>
95 </div>
96 {% endblock %}
97 </main>
98 </div>
99 </body>
100 </html>

```

Activate Windows  
Go to Settings to activate Windows.

## finance/templates/finance/dashboard.html

```

1  {% load static tailwind_tags %}<
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5    <meta charset="UTF-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1.0">
7    <title>Financial Dashboard</title>
8    {% tailwind_css %}<
9  </head>
10 <body class="bg-[#318f76]">
11
12   <div class="flex min-h-screen">
13     <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col">
14       <div class="flex items-center p-6">
15         
16         <span class="font-semibold text-white">{{ user.username }}</span>
17       </div>
18
19       <nav class="flex-1 px-4 py-2 space-y-2">
20         <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Dashboard</a>
21         <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Accounts</a>
22         <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
23         <a href="{% url 'categories' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Category</a>
24         <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Budgets</a>
25         <a href="{% url 'reports' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Reports</a>
26         <a href="{% url 'settings' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Settings</a>

```

Activate Windows  
Go to Settings to activate Windows.

```
27
28
29     </nav>
30
31     <div class="p-4">
32         <a href="{% url 'logout' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Log-out</a>
33     </div>
34 </aside>
35
36     <main class="flex-1 p-10">
37         <!-- h1 class="text-3xl font-bold text-white mb-8">Financial Report {{ start_date|date:"M d, Y" }} - {{ end_date|date:"M d, Y" }}</h1> -->
38
39         <!-- Income vs. Expense Summary -->
40         <div class="grid grid-cols-1 md:grid-cols-2 gap-6 mb-8">
41             <div class="bg-white rounded-lg shadow p-6">
42                 <h2 class="text-lg font-semibold text-gray-700 mb-2">Total Income</h2>
43                 <p class="text-3xl font-bold text-green-500">${{ income_total|floatformat:2 }}</p>
44             </div>
45             <div class="bg-white rounded-lg shadow p-6">
46                 <h2 class="text-lg font-semibold text-gray-700 mb-2">Total Expenses</h2>
47                 <p class="text-3xl font-bold text-red-500">${{ expense_total|floatformat:2 }}</p>
48             </div>
49         </div>
50
51         <!-- Top Expense Categories -->
52         <div class="bg-white rounded-lg shadow p-6 mb-8">
53             <h2 class="text-lg font-semibold text-gray-700 mb-4">Top 5 Expense Categories</h2>
54             <div class="space-y-4">
55                 {% for category in top_expense_categories %}
56                     <div class="flex items-center">
57                         <span class="w-1/3 text-gray-600">{{ category.category_name }}</span>
58                         <div class="w-2/3 bg-gray-200 rounded-full h-6" style="width: (% widthratio category.total_spent
59                             ${{ category.total_spent|floatformat:2 }})
60                         </div>
61                     </div>
62                 {% endfor %}
63             </div>
64         </div>
65
66         <div class="grid grid-cols-1 md:grid-cols-2 gap-6">
67             <!-- Account Balances -->
68             <div class="bg-white rounded-lg shadow p-6">
69                 <h2 class="text-lg font-semibold text-gray-700 mb-4">Account Balances</h2>
70                 <ul>
71                     {% for account in accounts %}
72                         <li class="flex justify-between items-center py-2 border-b">
73                             <span class="text-gray-600">{{ account.name }} {{ account.get_type_display }}</span>
74                             <span class="font-bold text-gray-800">${{ account.current_balance|floatformat:2 }}</span>
75                         </li>
76                     {% endfor %}
77                 </ul>
78             </div>
79
80             <!-- Recent Transactions -->
81             <div class="bg-white rounded-lg shadow p-6">
82                 <h2 class="text-lg font-semibold text-gray-700 mb-4">Recent Transactions</h2>
83                 <table class="w-full">
84                     <thead>
85                         <tr class="border-b">
86                             <th class="text-left py-2">Date</th>
87                         </tr>
88                     </thead>
89                     <tbody>
90                         <tr>
91                             <td>2023-10-01</td>
92                             <td>Bank Deposit</td>
93                             <td>$1000.00</td>
94                         </tr>
95                         <tr>
96                             <td>2023-10-02</td>
97                             <td>Groceries</td>
98                             <td>$50.00</td>
99                         </tr>
100                         <tr>
101                             <td>2023-10-03</td>
102                             <td>Gasoline</td>
103                             <td>$30.00</td>
104                         </tr>
105                         <tr>
106                             <td>2023-10-04</td>
107                             <td>Food Delivery</td>
108                             <td>$40.00</td>
109                         </tr>
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111                             <td>2023-10-05</td>
112                             <td>Entertainment</td>
113                             <td>$20.00</td>
114                         </tr>
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116                             <td>2023-10-06</td>
117                             <td>Transportation</td>
118                             <td>$15.00</td>
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121                             <td>2023-10-07</td>
122                             <td>Utilities</td>
123                             <td>$55.00</td>
124                         </tr>
125                         <tr>
126                             <td>2023-10-08</td>
127                             <td>Food</td>
128                             <td>$60.00</td>
129                         </tr>
130                         <tr>
131                             <td>2023-10-09</td>
132                             <td>Gasoline</td>
133                             <td>$25.00</td>
134                         </tr>
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136                             <td>2023-10-10</td>
137                             <td>Food Delivery</td>
138                             <td>$35.00</td>
139                         </tr>
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141                             <td>2023-10-11</td>
142                             <td>Entertainment</td>
143                             <td>$10.00</td>
144                         </tr>
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146                             <td>2023-10-12</td>
147                             <td>Transportation</td>
148                             <td>$10.00</td>
149                         </tr>
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151                             <td>2023-10-13</td>
152                             <td>Utilities</td>
153                             <td>$50.00</td>
154                         </tr>
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156                             <td>2023-10-14</td>
157                             <td>Food</td>
158                             <td>$70.00</td>
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161                             <td>2023-10-15</td>
162                             <td>Gasoline</td>
163                             <td>$35.00</td>
164                         </tr>
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166                             <td>2023-10-16</td>
167                             <td>Food Delivery</td>
168                             <td>$45.00</td>
169                         </tr>
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171                             <td>2023-10-17</td>
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173                             <td>$10.00</td>
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176                             <td>2023-10-18</td>
177                             <td>Transportation</td>
178                             <td>$10.00</td>
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181                             <td>2023-10-19</td>
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183                             <td>$50.00</td>
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186                             <td>2023-10-20</td>
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201                             <td>2023-10-23</td>
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216                             <td>2023-10-26</td>
217                             <td>Food</td>
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276                             <td>2023-11-07</td>
277                             <td>Food</td>
278                             <td>$85.00</td>
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630                             <td>2024-01-17</td>
631                             <td>Utilities</td>
632                             <td>$50.00</td>
633                         </tr>
634                         <tr>
635                             <td>2024-01-18</td>
636                             <td>Food</td>
637                             <td>$145.00</td>
638                         </tr>
639                         <tr>
640                             <td>2024-01-19</td>
641                             <td>Gasoline</td>
642                             <td>$100.00</td>
643                         </tr>
644                         <tr>
645                             <td>2024-01-20</td>
646                             <td>Food Delivery</td>
647                             <td>$110.00</td>
648                         </tr>
649                         <tr>
650                             <td>2024-01-21</td>
651                             <td>Entertainment</td>
652                             <td>$10.00</td>
653                         </tr>
654                         <tr>
655                             <td>2024-01-22</td>
656                             <td>Transportation</td>
657                             <td>$10.00</td>
658                         </tr>
659                         <tr>
660                             <td>2024-01-23</td>
661                             <td>Utilities</td>
662                             <td>$50.00</td>
663                         </tr>
664                         <tr>
665                             <td>2024-01-24</td>
666                             <td>Food</td>
667                             <td>$150.00</td>
668                         </tr>
669                         <tr>
670                             <td>2024-01-25</td>
671                             <td>Gasoline</td>
672                             <td>$105.00</td>
673                         </tr>
674                         <tr>
675                             <td>2024-01-26</td>
676                             <td>Food Delivery</td>
677                             <td>$115.00</td>
678                         </tr>
679                         <tr>
680                             <td>2024-01-27</td>
681                             <td>Entertainment</td>
682                             <td>$10.00</td>
683                         </tr>
684                         <tr>
685                             <td>2024-01-28</td>
686                             <td>Transportation</td>
687                             <td>$10.00</td>
688                         </tr>
689                         <tr>
690                             <td>2024-01-29</td>
691                             <td>Utilities</td>
692                             <td>$50.00</td>
693                         </tr>
694                         <tr>
695                             <td>2024-01-30</td>
696                             <td>Food</td>
697                             <td>$155.00</td>
698                         </tr>
699                         <tr>
700                             <td>2024-01-31</td>
701                             <td>Gasoline</td>
702                             <td>$110.00</td>
703                         </tr>
704                         <tr>
705                             <td>2024-02-01</td>
706                             <td>Food Delivery</td>
707                             <td>$120.00</td>
708                         </tr>
709                         <tr>
710                             <td>2024-02-02</td>
711                             <td>Entertainment</td>
712                             <td>$10.00</td>
713                         </tr>
714                         <tr>
715                             <td>2024-02-03</td>
716                             <td>Transportation</td>
717                             <td>$10.00</td>
718                         </tr>
719                         <tr>
720                             <td>2024-02-04</td>
721                             <td>Utilities</td>
722                             <td>$50.00</td>
723                         </tr>
724                         <tr>
725                             <td>2024-02-05</td>
726                             <td>Food</td>
727                             <td>$160.00</td>
728                         </tr>
729                         <tr>
730                             <td>2024-02-06</td>
731                             <td>Gasoline</td>
732                             <td>$115.00</td>
733                         </tr>
734                         <tr>
735                             <td>2024-02-07</td>
736                             <td>Food Delivery</td>
737                             <td>$125.00</td>
738                         </tr>
739                         <tr>
740                             <td>2024-02-08</td>
741                             <td>Entertainment</td>
742                             <td>$10.00</td>
743                         </tr>
744                         <tr>
745                             <td>2024-02-09</td>
746                             <td>Transportation</td>
747                             <td>$10.00</td>
748                         </tr>
749                         <tr>
750                             <td>2024-02-10</td>
751                             <td>Utilities</td>
752                             <td>$50.00</td>
753                         </tr>
754                         <tr>
755                             <td>2024-02-11</td>
756                             <td>Food</td>
757                             <td>$165.00</td>
758                         </tr>
759                         <tr>
760                             <td>2024-02-12</td>
761                             <td>Gasoline</td>
762                             <td>$120.00</td>
763                         </tr>
764                         <tr>
765                             <td>2024-02-13</td>
766                             <td>Food Delivery</td>
767                             <td>$130.00</td>
768                         </tr>
769                         <tr>
770                             <td>2024-02-14</td>
771                             <td>Entertainment</td>
772                             <td>$10.00</td>
773                         </tr>
774                         <tr>
775                             <td>2024-02-15</td>
776                             <td>Transportation</td>
777                             <td>$10.0
```

```

87             <th class="text-left py-2">Category</th>
88             <th class="text-right py-2">Amount</th>
89         </tr>
90     </thead>
91     <tbody>
92         {% for transaction in recent_transactions %}
93             <tr class="border-b">
94                 <td class="py-2 text-gray-600">{{ transaction.date|date:"M d" }}</td>
95                 <td class="py-2 text-gray-600">{{ transaction.category.name }}</td>
96                 <td class="py-2 font-bold" {% if transaction.type == 'INCOME' %}text-green-500{% else %}text-red-500{% endif %}>
97                     ${{ transaction.amount|floatformat:2 }}
98                 </td>
99             </tr>
100        {% endfor %}
101    </tbody>
102 </table>
103 </div>
104 </div>
105 </main>
106 </div>
107
108 </body>
109 </html>

```

A code editor interface showing Python template code.

## finance/templates/finance/update\_account.html

```

1  {% extends 'finance/accounts.html' %}
2
3  {% block content %}
4      <div class="container mx-auto mt-10">
5          <div class="max-w-md mx-auto bg-white p-8 rounded-lg shadow-md">
6              <h2 class="text-2xl font-bold mb-6">Update Account</h2>
7              <form method="post">
8                  {% csrf_token %}
9                  {{ form.as_p }}
10                 <div class="mt-6 flex justify-end">
11                     <a href="{% url 'accounts' %}" class="mr-4 inline-flex justify-center py-2 px-4 border border-gray-300 rounded-md shadow-sm text-sm font-medium text-gray-700" type="button">Cancel</a>
12                     <button type="submit" class="inline-flex justify-center py-2 px-4 border border-transparent shadow-sm text-sm font-medium rounded-md text-white bg-indigo-600" type="button">Save Changes</button>
13                 </div>
14             </form>
15         </div>
16     </div>
17     {% endblock %}

```

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## finance/templates/finance/update\_budget.html

```

1  {% extends 'finance/budgets.html' %}
2
3  {% block content %}
4      <div class="container mx-auto mt-10">
5          <div class="max-w-md mx-auto bg-white p-8 rounded-lg shadow-md">
6              <h2 class="text-2xl font-bold mb-6">Update Budget</h2>
7              <form method="post">
8                  {% csrf_token %}
9                  {{ form.as_p }}
10                 <div class="mt-6 flex justify-end">
11                     <a href="{% url 'budgets' %}" class="mr-4 inline-flex justify-center py-2 px-4 border border-gray-300 rounded-md shadow-sm text-sm font-medium text-gray-700" type="button">Cancel</a>
12                     <button type="submit" class="inline-flex justify-center py-2 px-4 border border-transparent shadow-sm text-sm font-medium rounded-md text-white bg-indigo-600" type="button">Save Changes</button>
13                 </div>
14             </form>
15         </div>
16     </div>
17     {% endblock %}

```

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## reports/apps.py

```

1  from django.apps import AppConfig
2
3
4  class ReportsConfig(AppConfig):
5      default_auto_field = 'django.db.models.BigAutoField'
6      name = 'reports'
```

## reports/urls.py

```

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5      path('', views.reports_view, name='reports'),
6  ]
```

## reports/views.py

```

1   from django.shortcuts import render
2   from django.contrib.auth.decorators import login_required
3   from finance.models import Transaction
4   from django.db.models import Sum
5   import matplotlib.pyplot as plt
6   import io
7   import base64
8
9   @login_required
10  def reports_view(request):
11      user = request.user
12
13      # --- Chart 1: Income vs Expense (Bar Chart) ---
14      income_vs_expense = user.transactions.values('type').annotate(total=Sum('amount'))
15      income = next((item['total'] for item in income_vs_expense if item['type'] == 'INCOME'), 0)
16      expense = next((item['total'] for item in income_vs_expense if item['type'] == 'EXPENSE'), 0)
17
18      plt.figure(figsize=(6, 4))
19      plt.bar(['Income', 'Expense'], [income, expense], color=['#4CAF50', '#F44336'])
20      plt.title('Income vs Expense')
21      plt.ylabel('Amount')
22
23      buffer = io.BytesIO()
24      plt.savefig(buffer, format='png')
25      buffer.seek(0)
26      income_expense_chart = base64.b64encode(buffer.getvalue()).decode('utf-8')
27      plt.close()

28      # --- Chart 2: Expense Breakdown (Pie Chart) ---
29      expense_breakdown = user.transactions.filter(type='EXPENSE').values('category__name').annotate(total=Sum('amount')).order_by('-total')
30
31      expense_labels = [item['category__name'] for item in expense_breakdown]
32      expense_totals = [item['total'] for item in expense_breakdown]
33
34
35      plt.figure(figsize=(6, 6))
36      if expense_totals:
37          plt.pie(expense_totals, labels=expense_labels, autopct='%1.1f%%', startangle=140)
38          plt.title('Expense Breakdown by Category')
39      else:
40          plt.text(0.5, 0.5, 'No expense data available', ha='center', va='center')
41          plt.title('Expense Breakdown by Category')
42
43      buffer = io.BytesIO()
44      plt.savefig(buffer, format='png')
45      buffer.seek(0)
46      expense_chart = base64.b64encode(buffer.getvalue()).decode('utf-8')
47      plt.close()

48      context = {
49          'income_expense_chart': income_expense_chart,
50          'expense_chart': expense_chart,
51      }
52
53
54      return render(request, 'reports/reports.html', context)
```

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```

28
29     <div class="p-4">
30         <a href="{% url 'logout' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Log-out</a>
31     </div>
32 </aside>
33
34 <main class="flex-1 p-10">
35     <div class="grid grid-cols-1 md:grid-cols-2 gap-6">
36         <div class="bg-white p-4 rounded-lg shadow flex flex-col items-center">
37             <h2 class="text-xl font-bold mb-4">Expense Breakdown</h2>
38             
39         </div>
40         <div class="bg-white p-4 rounded-lg shadow flex flex-col items-center">
41             <h2 class="text-xl font-bold mb-4">Income vs Expense</h2>
42             
43         </div>
44     </div>
45 </main>
46 </div>
47
48 </body>
49 </html>
```

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## reports/templates/reports/reports.html

```

1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4      <head>
5          <meta charset="UTF-8">
6          <meta name="viewport" content="width=device-width, initial-scale=1.0">
7          <title>Financial Report</title>
8          {% tailwind_css %}
9      </head>
10     <body class="bg-[#318f76]">
11
12         <div class="flex min-h-screen">
13             <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col">
14                 <div class="flex items-center p-6">
15                     
16                     <span class="font-semibold text-white">{{ user.username }}</span>
17                 </div>
18
19                 <nav class="flex-1 px-4 py-2 space-y-2">
20                     <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Dashboard</a>
21                     <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Accounts</a>
22                     <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
23                     <a href="{% url 'categories' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Category</a>
24                     <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Budgets</a>
25                     <a href="{% url 'reports' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Reports</a>
26                     <a href="{% url 'settings' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Settings</a>
27                 </nav>

```

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## settings/apps.py

```

1  from django.apps import AppConfig
2
3
4  class SettingsConfig(AppConfig):
5      default_auto_field = 'django.db.models.BigAutoField'
6      name = 'settings'
```

## settings/forms.py

```

1  from django import forms
2  from django.contrib.auth.forms import PasswordChangeForm
3  from django.contrib.auth.models import User
4
5  class UsernameUpdateForm(forms.ModelForm):
6      class Meta:
7          model = User
8          fields = ['username']
9          widgets = {
10              'username': forms.TextInput(attrs={'class': 'w-full max-w-sm bg-gray-200 border border-gray-300 rounded py-2 px-3 text-gray-700 placeholder-gray-500 focus:outline-none focus:ring-gray-500 focus:border-gray-500 transition duration-200 ease-in-out'})
11          }
12
13  class ProfilePictureUpdateForm(forms.Form):
14      profile_picture = forms.ImageField()
15
16
17  class EmailUpdateForm(forms.Form):
18      email = forms.EmailField(
19          widget=forms.EmailInput(attrs={'class': 'w-full max-w-sm bg-gray-200 border border-gray-300 rounded py-2 px-3 text-gray-700 placeholder-gray-500 focus:outline-none focus:ring-gray-500 focus:border-gray-500 transition duration-200 ease-in-out'})
20      )
21
22  class CustomPasswordChangeForm(PasswordChangeForm):
23      old_password = forms.CharField(
24          label="Old password",
25          widget=forms.PasswordInput(attrs={'class': 'w-full bg-gray-200 border border-gray-300 rounded py-2 px-3 text-gray-700 placeholder-gray-500 focus:outline-none focus:ring-gray-500 focus:border-gray-500 transition duration-200 ease-in-out'})
26      )
27
28      new_password1 = forms.CharField(
29          label="New password",
30          widget=forms.PasswordInput(attrs={'class': 'w-full bg-gray-200 border border-gray-300 rounded py-2 px-3 text-gray-700 placeholder-gray-500 focus:outline-none focus:ring-gray-500 focus:border-gray-500 transition duration-200 ease-in-out'})
31      )
32      new_password2 = forms.CharField(
33          label="Confirm new password",
34          widget=forms.PasswordInput(attrs={'class': 'w-full bg-gray-200 border border-gray-300 rounded py-2 px-3 text-gray-700 placeholder-gray-500 focus:outline-none focus:ring-gray-500 focus:border-gray-500 transition duration-200 ease-in-out'})
35      )

```

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## settings/urls.py

```

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5      path('', views.settings_view, name='settings'),
6  ]

```

## settings/views.py

```

1  from django.shortcuts import render, redirect
2  from django.contrib.auth.decorators import login_required
3  from django.contrib import messages
4  from django.contrib.auth import update_session_auth_hash
5  from .forms import EmailUpdateForm, CustomPasswordChangeForm, UsernameUpdateForm, ProfilePictureUpdateForm
6
7  @login_required
8  def settings_view(request):
9      if request.method == 'POST':
10          if 'update_username' in request.POST:
11              username_form = UsernameUpdateForm(request.POST, instance=request.user)
12              if username_form.is_valid():
13                  username_form.save()
14                  messages.success(request, 'Your username has been updated!')
15                  return redirect('settings')
16              else:
17                  username_form = UsernameUpdateForm(instance=request.user)
18
19          if 'update_profile_picture' in request.POST:
20              profile_picture_form = ProfilePictureUpdateForm(request.POST, request.FILES)
21              if profile_picture_form.is_valid():
22                  request.user.profile.profile_picture = profile_picture_form.cleaned_data['profile_picture']
23                  request.user.profile.save()
24                  messages.success(request, 'Your profile picture has been updated!')
25                  return redirect('settings')
26              else:
27                  profile_picture_form = ProfilePictureUpdateForm()

```

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```

28     if 'update_email' in request.POST:
29         email_form = EmailUpdateForm(request.POST)
30         if email_form.is_valid():
31             request.user.email = email_form.cleaned_data['email']
32             request.user.save()
33             messages.success(request, 'Your email has been updated!')
34             return redirect('settings')
35     else:
36         email_form = EmailUpdateForm()
37
38     if 'change_password' in request.POST:
39         password_form = CustomPasswordChangeForm(request.user, request.POST)
40         if password_form.is_valid():
41             user = password_form.save()
42             update_session_auth_hash(request, user) # Important!
43             messages.success(request, 'Your password was successfully updated!')
44             return redirect('settings')
45     else:
46         messages.error(request, 'Please correct the error below.')
47     else:
48         password_form = CustomPasswordChangeForm(request.user)
49
50     else:
51         username_form = UsernameUpdateForm(instance=request.user)
52         profile_picture_form = ProfilePictureUpdateForm()
53         email_form = EmailUpdateForm()
54         password_form = CustomPasswordChangeForm(request.user)
55
56     context = {
57         'username_form': username_form,
58
59         'profile_picture_form': profile_picture_form,
60         'email_form': email_form,
61         'password_form': password_form
62     }
63     return render(request, 'settings/settings.html', context)

```

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## settings/templates/settings/settings.html

```

1   {% load static tailwind_tags %}
2   <!DOCTYPE html>
3   <html lang="en">
4     <head>
5       <meta charset="UTF-8">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>User Settings</title>
8       {% tailwind_css %}
9     </head>
10    <body class="bg-[#318f76]">
11
12      <div class="flex min-h-screen">
13        <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col">
14          <div class="flex items-center p-6">
15            
16            <span class="font-semibold text-white">{{ user.username }}</span>
17          </div>
18
19          <nav class="flex-1 px-4 py-2 space-y-2">
20            <a href="{% url 'dashboard' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Dashboard</a>
21            <a href="{% url 'accounts' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Accounts</a>
22            <a href="{% url 'transactions' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Transactions</a>
23            <a href="#" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Category</a>
24            <a href="{% url 'budgets' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Budgets</a>
25            <a href="{% url 'reports' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Reports</a>
26            <a href="{% url 'settings' %}" class="block py-2 px-4 rounded bg-[#2a3633] text-white font-medium">Settings</a>

```

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```

27      </nav>
28
29      <div class="p-4">
30          <a href="{% url 'logout' %}" class="block py-2 px-4 rounded hover:bg-[#2a3633]/50">Log-out</a>
31      </div>
32  </aside>
33
34  <main class="flex-1 p-10">
35
36      {% if messages %}
37          <div class="mb-8">
38              {% for message in messages %}
39                  <div class="p-4 rounded-md {% if message.tags == 'success' %}bg-green-100 text-green-800{% else %}bg-red-100 text-red-800{% endif %}>
40                      {{ message }}
41                  </div>
42              {% endfor %}
43          </div>
44      {% endif %}
45
46      <div class="flex items-center mb-8">
47          
48
49          <div class="bg-white rounded-lg shadow px-5 py-2">
50              <span class="text-2xl font-bold text-gray-800">{{ user.username }}</span>
51          </div>
52
53          <svg class="w-8 h-8 text-white ml-3" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24" fill="currentColor">
54              <path fill-rule="evenodd" d="M2.25 12c0-5.385 4.365-9.75 9.75-9.75s9.75 4.365 9.75 9.75-4.365 9.75-9.75 9.75 9.7552.25 17.385 2.25 12z13.36-1.814a.75.75 0 1 1 0-1.5z"/>
55          </svg>
56      </div>
57
58      <div class="bg-gray-100 rounded-lg shadow-xl p-8 max-w-2xl">
59
60          <form method="post">
61              {% csrf_token %}
62              <div class="mb-6">
63                  <label class="block text-sm font-bold text-gray-700 mb-1">Username</label>
64                  <div class="flex items-center justify-between space-x-4">
65                      {{ username_form.username }}
66                      <button type="submit" name="update_username" class="font-semibold text-gray-700 underline whitespace nowrap hover:text-black">Update Username<b>


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```

```

87
88         <form method="post">
89             {% csrf_token %}
90             <div class="mb-6">
91                 <label class="block text-sm font-bold text-gray-700 mb-1">E-Mail Address</label>
92                 <p class="text-gray-900 mb-3">{{ user.email }}</p>
93
94                 <div class="flex items-center justify-between space-x-4">
95                     {{ email_form.email }}
96                     <button type="submit" name="update_email" class="font-semibold text-gray-700 underline whitespace nowrap hover:text-black">Update E-mail</button>
97                 </div>
98                 {{ email_form.email.errors }}
99             </div>
100            </form>
101
102            <hr class="border-gray-300 my-6">
103
104            <form method="post">
105                {% csrf_token %}
106                <div>
107                    <label class="block text-sm font-bold text-gray-700 mb-1">Password</label>
108                    <div class="space-y-4">
109                        {{ password_form.old_password }}
110                        {{ password_form.old_password.errors }}
111                        {{ password_form.new_password1 }}
112                        {{ password_form.new_password1.errors }}
113                        {{ password_form.new_password2 }}
114                        {{ password_form.new_password2.errors }}
115                    </div>
116                    <div class="flex items-center justify-between mt-4">
117                        <p class="text-gray-900 tracking-wider text-lg"></p>
118                        <button type="submit" name="change_password" class="font-semibold text-gray-700 underline hover:text-black">Change Password</button>
119                    </div>
120                </div>
121            </form>
122
123        </div>
124
125    </main>
126 </div>
127
128 </body>
129 </html>

```

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## static/js/main.js

```

1  tailwind.config = {
2     theme: {
3         fontFamily: {
4             montserrat: ["Montserrat", "sans-serif"],
5             gotu: ["Gotu", "sans-serif"],
6         },
7     },
8 };
9
10 /**
11  * Toggles the visibility of a password field
12  * @param {string} id - The ID of the password input field
13  */
14 <function togglePasswordVisibility(id) {
15     const passwordInput = document.getElementById(id);
16     const eyeIcon = document.getElementById(`${id}-eye`);
17
18     if (passwordInput.type === "password") {
19         passwordInput.type = "text";
20         eyeIcon.setAttribute("data-feather", "eye-off");
21     } else {
22         passwordInput.type = "password";
23         eyeIcon.setAttribute("data-feather", "eye");
24     }
25     feather.replace();
26 }
27

```

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```

28  /**
29   * Shows a toast notification
30   * @param {string} message - The message to display
31   * @param {string} type - The type of notification (success, error, warning, info)
32   * @param {number} duration - How long to display the notification in milliseconds
33   */
34  function showToast(message, type = "info", duration = 3000) {
35    const toast = document.createElement("div");
36    toast.className = `fixed bottom-4 right-4 px-4 py-2 rounded-md text-white shadow-lg ${(
37      type === "success"
38        ? "bg-green-500"
39        : type === "error"
40        ? "bg-red-500"
41        : type === "warning"
42        ? "bg-yellow-500"
43        : "bg-blue-500"
44    )}`;
45    toast.textContent = message;
46    document.body.appendChild(toast);
47
48    setTimeout(() => {
49      toast.classList.add("opacity-0", "transition-opacity", "duration-300");
50      setTimeout(() => toast.remove(), 300);
51    }, duration);
52  }
53
54  document.addEventListener("DOMContentLoaded", function () {
55    feather.replace();
56    initLoginForm();
57  });

```

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```

58
59  function initLoginForm() {
60    const loginForm = document.getElementById("login-form");
61    if (!loginForm) return;
62
63    loginForm.addEventListener("submit", async (event) => {
64      event.preventDefault();
65
66      const submitButton = loginForm.querySelector('button[type="submit"]');
67      setButtonLoading(submitButton, true);
68
69      try {
70        const payload = await submitLoginForm(loginForm);
71
72        if (!payload.success) {
73          showToast(payload.message || "Unable to sign in", "error");
74          return;
75        }
76
77        showToast(payload.message || "Signed in successfully", "success");
78
79        const redirectTarget =
80          payload.redirect || loginForm.dataset.redirect || window.location.href;
81
82        setTimeout(() => {
83          window.location.href = redirectTarget;
84        }, 800);
85      } catch (error) {
86        showToast(error.message || "Something went wrong", "error");
87      } finally {
88        setButtonLoading(submitButton, false);

```

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```

89      }
90    });
91  }
92
93  ✓  async function submitLoginForm(form) {
94    const endpoint = form.getAttribute("action") || window.location.href;
95    const formData = new FormData(form);
96
97    const response = await fetch(endpoint, {
98      method: "POST",
99      body: formData,
100     headers: {
101       "X-Requested-With": "XMLHttpRequest",
102       Accept: "application/json",
103     },
104   });
105
106   const responseText = await response.text();
107   let payload;
108
109   try {
110     payload = JSON.parse(responseText);
111   } catch (_error) {
112     payload = {
113       success: response.ok,
114       message: responseText || "Login processed",
115     };
116   }
117
118   payload.success = payload.success ?? response.ok;

119   return payload;
120 }
121
122  ✓  function setButtonLoading(button, isLoading) {
123   if (!button) return;
124
125   if (isLoading) {
126     button.dataset.originalText = button.textContent;
127     button.textContent = "Signing in...";
128     button.disabled = true;
129     button.classList.add("opacity-75", "cursor-not-allowed");
130   } else {
131     button.textContent = button.dataset.originalText || "Sign in";
132     button.disabled = false;
133     button.classList.remove("opacity-75", "cursor-not-allowed");
134   }
135 }

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```

## theme/apps.py

```

1  from django.apps import AppConfig
2
3
4  class ThemeConfig(AppConfig):
5    name = 'theme'


```

## theme/static\_src/src/tailwind.config.js

```

1  /** @type {import('tailwindcss').Config} */
2  module.exports = {
3    content: [
4      '.././templates/**/*.{html,js,svg}',
5      './src/**/*.{html,js,svg}'
6    ],
7    theme: {
8      extend: {
9        colors: {
10          'custom-green-bg': '#318f76', // Main background green
11          'custom-sidebar': '#3a4a46', // Darker sidebar green-gray
12          'custom-sidebar-active': '#2a3633', // Darkest active item
13        },
14      },
15    },
16  },
17  plugins: [],
18}

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```

## theme/templates/base.html

```

1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <title>Django Tailwind</title>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <meta http-equiv="X-UA-Compatible" content="ie=edge">
9      {% tailwind_css %}</head>
10 </head>
11
12 <body class="bg-gray-50 text-black font-serif leading-normal tracking-normal">
13 <div class="container mx-auto">
14     <section class="flex items-center justify-center h-screen">
15         <h1 class="text-5xl">Django + Tailwind = ❤</h1>
16     </section>
17 </div>
18 </body>
19 </html>

```

## transactions/apps.py

```

1  from django.apps import AppConfig
2
3
4  class TransactionsConfig(AppConfig):
5      default_auto_field = 'django.db.models.BigAutoField'
6      name = 'transactions'

```

## transactions/forms.py

```

1  from django import forms
2  from finance.models import Transaction, Account, Category, TransactionType
3
4  class TransactionForm(forms.ModelForm):
5      class Meta:
6          model = Transaction
7          fields = ['account', 'category', 'amount', 'date', 'type', 'description']
8          widgets = {
9              'account': forms.Select(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
10             'category': forms.Select(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
11             'amount': forms.NumberInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
12             'date': forms.DateInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
13             'type': forms.Select(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'}),
14             'description': forms.TextInput(attrs={'class': 'mt-1 block w-full rounded-md border-gray-300 shadow-sm focus:border-indigo-500 focus:ring-indigo-500 sm:text-sm'})
15         }
16
17  def __init__(self, *args, **kwargs):
18      user = kwargs.pop('user', None)
19      transaction_type = kwargs.pop('transaction_type', None)
20      super().__init__(*args, **kwargs)
21
22      if user:
23          self.fields['account'].queryset = Account.objects.filter(user=user)
24          if transaction_type:
25              self.fields['category'].queryset = Category.objects.filter(user=user, type=transaction_type)
26          else:
27              self.fields['category'].queryset = Category.objects.filter(user=user)
28
29  class UpdateTransactionForm(TransactionForm):
30      class Meta(TransactionForm.Meta):
31          fields = ['account', 'category', 'amount', 'date', 'type', 'description']

```

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## transactions/urls.py

```

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5      path("", views.transaction_list, name="transactions"),
6      path("create/", views.create_transaction, name="create_transaction"),
7      path("<int:transaction_id>/update/", views.update_transaction, name="update_transaction"),
8      path("<int:transaction_id>/delete/", views.delete_transaction, name="delete_transaction"),
9      path("search/", views.search_transactions_ajax, name="search_transactions_ajax"),
10 ]

```

## transactions/views.py

```

1  from django.shortcuts import render, redirect, get_object_or_404
2  from django.contrib.auth.decorators import login_required
3  from django.http import JsonResponse
4  from finance.models import Transaction, Account, Category
5  from .forms import TransactionForm, UpdateTransactionForm
6
7  @login_required
8  def transaction_list(request):
9      user = request.user
10     transactions = Transaction.objects.filter(user=user).order_by('-date', '-id')
11
12     # Filter by type if provided
13     transaction_type = request.GET.get('type', '')
14     if transaction_type:
15         transactions = transactions.filter(type=transaction_type)
16
17     # Search functionality
18     search_query = request.GET.get('search', '')
19     if search_query:
20         transactions = transactions.filter(
21             description__icontains=search_query
22         ) | transactions.filter(
23             category__name__icontains=search_query
24         )
25
26     context = {
27
28         'transactions': transactions,
29         'transaction_type': transaction_type,
30         'search_query': search_query,
31         'show_transactions': True,
32         'action': False,
33         'is_delete': False,
34     }
35     return render(request, "transactions/transactions.html", context)
36
37  @login_required
38  def create_transaction(request):
39      if request.method == 'POST':
40          form = TransactionForm(request.POST, user=request.user)
41          if form.is_valid():
42              transaction = form.save(commit=False)
43              transaction.user = request.user
44              transaction.save()
45              return redirect('transactions')
46          else:
47              transaction_type = request.GET.get('type', '')
48              form = TransactionForm(user=request.user, transaction_type=transaction_type)
49
50      context = {
51          'form': form,
52          'action': 'Create',
53          'show_transactions': False,
54          'is_delete': False,
55      }
56      return render(request, 'transactions/transactions.html', context)

```

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```

56     @login_required
57     def update_transaction(request, transaction_id):
58         transaction = get_object_or_404(Transaction, id=transaction_id, user=request.user)
59         if request.method == 'POST':
60             form = UpdateTransactionForm(request.POST, instance=transaction, user=request.user)
61             if form.is_valid():
62                 form.save()
63                 return redirect('transactions')
64             else:
65                 form = UpdateTransactionForm(instance=transaction, user=request.user)
66
67         context = {
68             'form': form,
69             'transaction': transaction,
70             'action': 'Update',
71             'show_transactions': False,
72             'is_delete': False,
73         }
74         return render(request, 'transactions/transactions.html', context)
75
76     @login_required
77     def delete_transaction(request, transaction_id):
78         transaction = get_object_or_404(Transaction, id=transaction_id, user=request.user)
79         if request.method == 'POST':
80             transaction.delete()
81             return redirect('transactions')
82         context = {
83             'transaction': transaction,
84
85             'show_transactions': False,
86             'action': False,
87             'is_delete': True,
88         }
89         return render(request, 'transactions/transactions.html', context)
90
91     @login_required
92     def search_transactions_ajax(request):
93         """AJAX endpoint for searching transactions"""
94         user = request.user
95         transactions = Transaction.objects.filter(user=user).order_by('-date', '-id')
96
97         # Filter by type if provided
98         transaction_type = request.GET.get('type', '')
99         if transaction_type:
100             transactions = transactions.filter(type=transaction_type)
101
102         # Search functionality
103         search_query = request.GET.get('search', '')
104         if search_query:
105             transactions = transactions.filter(
106                 description__icontains=search_query
107             ) | transactions.filter(
108                 category__name__icontains=search_query
109             )
110
111         # Render the table rows as HTML
112         html = ''
113         if transactions.exists():
114             for transaction in transactions:
115                 color_class = "text-green-500" if transaction.type == "INCOME" else "text-red-500"
116                 sign = '+' if transaction.type == 'INCOME' else '-'
117                 date_str = transaction.date.strftime('%b %d, %Y')
118                 description = transaction.description or '-'
119
120                 html += f'{<tr class="border-b hover:bg-gray-50" data-type="{transaction.type}">\n'
121                 html += f'{<td class="py-2 px-4 text-gray-600">{date_str}</td>\n'
122                 html += f'{<td class="py-2 px-4 text-gray-600">{transaction.account.name}</td>\n'
123                 html += f'{<td class="py-2 px-4 text-gray-600">{transaction.category.name}</td>\n'
124                 html += f'{<td class="py-2 px-4 text-gray-600">{description}</td>\n'
125                 html += f'{<td class="py-2 px-4 font-bold text-right {color_class}">{sign}${transaction.amount:.2f}</td>\n'
126                 html += f'{<td class="py-2 px-4 text-center">\n'
127                 html += f'{<div class="flex gap-3 justify-center items-center">\n'
128                 html += f'{<a href="/transactions/{transaction.id}/update/" class="px-4 py-2 bg-blue-600 text-white rounded-lg hover:bg-blue-700 transition-all shadow-md hover:shadow-blue-700">Edit</a>\n'
129                 html += f'{<a href="/transactions/{transaction.id}/delete/" class="px-4 py-2 bg-red-600 text-white rounded-lg hover:bg-red-700 transition-all shadow-md hover:shadow-red-700">Delete</a>\n'
130                 html += f'{</div></td></tr>\n'
131             else:
132                 html = '<tr><td colspan="6" class="text-center text-gray-500 py-8">No transactions found. <a href="/transactions/create/" class="text-blue-600 hover:underline">Create</a></td></tr>\n'
133
134         return JsonResponse({'html': html, 'count': transactions.count()})

```

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## transactions/templates/transactions/transactions.html

```

1  {% load static tailwind_tags %}
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>{{ if action }}{{ action }} Transaction{{ elif show_transactions }}Transactions{{ elif is_delete }}Delete Transaction{{ endif }}</title>
8      {% tailwind_css %}
9  </head>
10 <body class="bg-[#318f76]">
11     <div class="flex min-h-screen">
12         <!-- Sidebar -->
13         <aside class="w-60 bg-[#3a4a46] text-gray-300 flex flex-col sticky top-0 h-screen">
14             <div class="flex items-center p-6">
15                 
16                 <span class="font-semibold text-white">{{ user.username }}


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```



```

117          </div>
118          <div>
119              <label class="block text-sm font-medium text-gray-700 mb-1">Type</label>
120              {{ form.type }}
121              {{ form.type.errors }}
122          </div>
123          <div>
124              <label class="block text-sm font-medium text-gray-700 mb-1">Category</label>
125              {{ form.category }}
126              {{ form.category.errors }}
127          </div>
128          <div>
129              <label class="block text-sm font-medium text-gray-700 mb-1">Amount</label>
130              {{ form.amount }}
131              {{ form.amount.errors }}
132          </div>
133          <div>
134              <label class="block text-sm font-medium text-gray-700 mb-1">Date</label>
135              {{ form.date }}
136              {{ form.date.errors }}
137          </div>
138          <div>
139              <label class="block text-sm font-medium text-gray-700 mb-1">Description</label>
140              {{ form.description }}
141              {{ form.description.errors }}
142          </div>
143      </div>
144      <div class="mt-6 flex gap-3">
145          <button type="submit" class="flex-1 px-8 py-4 bg-blue-600 text-white rounded-lg hover:bg-blue-700 font-bold text-lg transition-all duration-300" {{ action }} Transaction
146      </button>
147      <a href="{% url 'transactions' %}" class="flex-1 px-8 py-4 bg-gray-600 text-white rounded-lg hover:bg-gray-700 font-bold text-lg transition-all duration-300" {{ cancel }} Cancel
148      </a>
149  </div>
150  </div>
151  </div>
152  </div>
153  </div>
154  <% endif %>
155
156  <!-- Delete Transaction View -->
157  <% if is_delete %>
158  <div class="max-w-3xl mx-auto">
159      <h1 class="text-4xl font-bold text-white mb-8 drop-shadow-lg">Delete Transaction</h1>
160
161      <div class="bg-white rounded-2xl shadow-2xl overflow-hidden">
162          <!-- Warning Banner -->
163          <div class="bg-gradient-to-r from-red-50 to-orange-50 border-l-4 border-red-500 p-6">
164              <div class="flex items-start">
165                  <div class="flex-shrink-0">
166                      <svg class="h-6 w-6 text-red-500" fill="none" viewBox="0 0 24 24" stroke="currentColor">
167                          <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M12 9v2m0 4h.01m-6.938 4h13.856c1.54 0 2.502-1.667 1.732-3L13.7
168                      </svg>
169                  </div>
170                  <div class="ml-3">
171                      <h3 class="text-lg font-semibold text-red-800">Confirm Deletion</h3>
172                      <p class="mt-1 text-sm text-red-700">Are you sure you want to delete this transaction? This action cannot be undone.</p>
173                  </div>
174              </div>
175          </div>
176      </div>

```

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```

177         </div>
178
179     <!-- Transaction Details -->
180     <div class="p-6">
181         <div class="bg-gray-50 rounded-lg p-6 border border-gray-200">
182             <h3 class="text-lg font-bold text-gray-800 mb-4 flex items-center">
183                 <svg class="w-5 h-5 mr-2 text-gray-600" fill="none" viewBox="0 0 24 24" stroke="currentColor">
184                     <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M9 12h6m-6 4h6m2 5H7a2 2 0 01-2-2V5a2 2 0 01-2-2v5.586a1 1 0 01-1 1z" />
185             </svg>
186             Transaction Details
187         </h3>
188         <div class="space-y-3">
189             <div class="flex justify-between items-center py-2 border-b border-gray-200">
190                 <span class="text-gray-600 font-medium">Date:</span>
191                 <span class="text-gray-900">{{ transaction.date|date:"M d, Y" }}</span>
192             </div>
193             <div class="flex justify-between items-center py-2 border-b border-gray-200">
194                 <span class="text-gray-600 font-medium">Account:</span>
195                 <span class="text-gray-900">{{ transaction.account.name }}</span>
196             </div>
197             <div class="flex justify-between items-center py-2 border-b border-gray-200">
198                 <span class="text-gray-600 font-medium">Category:</span>
199                 <span class="text-gray-900">{{ transaction.category.name }}</span>
200             </div>
201             <div class="flex justify-between items-center py-2 border-b border-gray-200">
202                 <span class="text-gray-600 font-medium">Type:</span>
203                 <span class="px-3 py-1 rounded-full text-sm font-medium {&gt; if transaction.type == 'INCOME' %}bg-green-100 text-green-800{&gt; else %}bg-red-100 text-white{&gt; {{ transaction.get_type_display }}</span>
204             </div>
205         </div>
206     </div>
207
208     <div class="flex justify-between items-center py-2 border-b border-gray-200">
209         <span class="text-gray-600 font-medium">Amount:</span>
210         <span class="text-2xl font-bold {&gt; if transaction.type == 'INCOME' %}text-green-600{&gt; else %}text-red-600{&gt; %endif %}>
211             ${{ transaction.amount|floatformat:2 }}
212         </span>
213     </div>
214     {&gt; if transaction.description %}
215         <div class="py-2">
216             <span class="text-gray-600 font-medium block mb-1">Description:</span>
217             <p class="text-gray-900 bg-white p-3 rounded border border-gray-200">{{ transaction.description }}</p>
218         </div>
219     {&gt; endif %}
220     </div>
221
222     <form method="post" class="mt-8">
223         {&gt; csrf_token %}
224         <div class="flex gap-4">
225             <button type="submit" class="flex-1 px-8 py-4 bg-red-600 text-white rounded-lg hover:bg-red-700 font-bold text-lg transition-all duration-200 shadow-lg hover:shadow-xl border border-gray-200">
226                 Delete Transaction
227             </button>
228             <a href="{% url 'transactions' %}" class="flex-1 px-8 py-4 bg-gray-600 text-white rounded-lg hover:bg-gray-700 font-bold text-lg transition-all duration-200 shadow-lg border border-gray-200">
229                 Cancel
230             </a>
231         </div>
232
233         </form>
234     </div>
235     </div>
236 </div>

```

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```

237         {% endif %}
238
239     </main>
240 </div>
241
242 <script>
243     // Only run script if we're on the transactions list page
244     if (document.getElementById('transactionTableBody')) {
245         let currentType = '{{ transaction_type|default:"" }}';
246
247         function performSearch() {
248             const searchQuery = document.getElementById('searchInput').value;
249             const url = new URL(`{{ url "search_transactions_ajax" }}`, window.location.origin);
250
251             if (searchQuery) {
252                 url.searchParams.append('search', searchQuery);
253             }
254             if (currentType) {
255                 url.searchParams.append('type', currentType);
256             }
257
258             fetch(url)
259                 .then(response => response.json())
260                 .then(data => {
261                     document.getElementById('transactionTableBody').innerHTML = data.html;
262                 })
263                 .catch(error => {
264                     console.error('Error:', error);
265                 });
266         }
267
268         // Search input with debounce
269         let searchTimeout;
270         document.getElementById('searchInput').addEventListener('input', function() {
271             clearTimeout(searchTimeout);
272             searchTimeout = setTimeout(performSearch, 300);
273         });
274
275         // Search button
276         document.getElementById('searchButton').addEventListener('click', performSearch);
277
278         // Filter buttons
279         document.getElementById('filterAll').addEventListener('click', function() {
280             currentType = '';
281             updateFilterButtons();
282             performSearch();
283         });
284
285         document.getElementById('filterIncome').addEventListener('click', function() {
286             currentType = 'INCOME';
287             updateFilterButtons();
288             performSearch();
289         });
290
291         document.getElementById('filterExpense').addEventListener('click', function() {
292             currentType = 'EXPENSE';
293             updateFilterButtons();
294             performSearch();
295         });
296     }

```

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```

267         // Search input with debounce
268         let searchTimeout;
269         document.getElementById('searchInput').addEventListener('input', function() {
270             clearTimeout(searchTimeout);
271             searchTimeout = setTimeout(performSearch, 300);
272         });
273
274         // Search button
275         document.getElementById('searchButton').addEventListener('click', performSearch);
276
277         // Filter buttons
278         document.getElementById('filterAll').addEventListener('click', function() {
279             currentType = '';
280             updateFilterButtons();
281             performSearch();
282         });
283
284         document.getElementById('filterIncome').addEventListener('click', function() {
285             currentType = 'INCOME';
286             updateFilterButtons();
287             performSearch();
288         });
289
290         document.getElementById('filterExpense').addEventListener('click', function() {
291             currentType = 'EXPENSE';
292             updateFilterButtons();
293             performSearch();
294         });
295
296     }

```

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```

297     function updateFilterButtons() {
298         // Reset all buttons
299         document.getElementById('filterAll').classList.remove('bg-gray-400', 'font-semibold');
300         document.getElementById('filterAll').classList.add('bg-gray-200');
301         document.getElementById('filterIncome').classList.remove('bg-green-400', 'font-semibold');
302         document.getElementById('filterIncome').classList.add('bg-green-200');
303         document.getElementById('filterExpense').classList.remove('bg-red-400', 'font-semibold');
304         document.getElementById('filterExpense').classList.add('bg-red-200');
305
306         if (currentType === '') {
307             document.getElementById('filterAll').classList.remove('bg-gray-200');
308             document.getElementById('filterAll').classList.add('bg-gray-400', 'font-semibold');
309         } else if (currentType === 'INCOME') {
310             document.getElementById('filterIncome').classList.remove('bg-green-200');
311             document.getElementById('filterIncome').classList.add('bg-green-400', 'font-semibold');
312         } else if (currentType === 'EXPENSE') {
313             document.getElementById('filterExpense').classList.remove('bg-red-200');
314             document.getElementById('filterExpense').classList.add('bg-red-400', 'font-semibold');
315         }
316     }
317
318     updateFilterButtons();
319 }
320 </script>
321 </body>
322 </html>
```

Activate Windows

## users/apps.py

```

1  from django.apps import AppConfig
2
3
4  class UsersConfig(AppConfig):
5      default_auto_field = 'django.db.models.BigAutoField'
6      name = 'users'
```

## users/urls.py

```

1  from django.urls import path
2  from django.shortcuts import redirect
3  from . import views
4
5  urlpatterns = [
6      path('', lambda request: redirect('login')),
7      path('login/', views.login_view, name='login'),
8      path('signup/', views.signup_view, name='signup'),
9      path('logout/', views.logout_view, name='logout'),
10 ]
```

## users/views.py

```

1  from django.shortcuts import render, redirect
2  from django.contrib.auth.models import User
3  from django.contrib.auth import authenticate, login, logout
4
5  def login_view(request):
6      if request.method == "POST":
7          username = request.POST.get("username")
8          password = request.POST.get("password")
9
10         user = authenticate(request, username=username, password=password)
11
12         if user:
13             login(request, user)
14             return redirect("dashboard")
15         else:
16             return render(request, "login.html", {"error": "Invalid username or password"})
17
18     return render(request, "login.html")
19
20 def signup_view(request):
21     if request.method == "POST":
22         username = request.POST.get("username")
23         email = request.POST.get("email")
24         password = request.POST.get("password")
25         confirm_password = request.POST.get("confirm-password")
26
27         if password != confirm_password:
```

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```

28         return render(request, "signup.html", {"error": "Passwords do not match"})
29
30     if User.objects.filter(username=username).exists():
31         return render(request, "signup.html", {"error": "Username already taken"})
32
33     if User.objects.filter(email=email).exists():
34         return render(request, "signup.html", {"error": "Email already registered"})
35
36     user = User.objects.create_user(username=username, email=email, password=password)
37     login(request, user)
38     return redirect("dashboard")
39
40     return render(request, "signup.html")
41
42 def logout_view(request):
43     logout(request)
44     return redirect("login")
45
46 def home_view(request):
47     return render(request, "home.html")

```

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## users/templates/login.html

```

1  {% load static %}
2
3  <!DOCTYPE html>
4  <html lang="en" class="h-full bg-gray-50">
5      <head>
6          <meta charset="UTF-8" />
7          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
8          <title>Financeo - Login</title>
9          <script src="https://cdn.tailwindcss.com"></script>
10         <script src="https://cdn.jsdelivr.net/npm/@feathericons/dist/feather.min.js"></script>
11         <script defer src="{% static 'script.js' %}"></script>
12
13         <style>
14             @import url("https://fonts.googleapis.com/css2?family=Inter:wght@300;400;500;600;700&display=swap");
15         body {
16             font-family: "Inter", sans-serif;
17         }
18     </style>
19 </head>
20
21 <body class="h-full bg-gradient-to-b from-green-600 to-green-900">
22     <div class="min-h-full flex flex-col justify-center py-12 sm:px-6 lg:px-8">
23         <div class="sm:mx-auto sm:w-full sm:max-w-md">
24             <div class="bg-white py-8 px-4 shadow sm:rounded-lg sm:px-10">
25                 <h2 class="mt-2 text-center text-3xl font-extrabold text-gray-900">
26                     Financeo

```

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```

27                 </h2>
28                 <p class="mt-2 mb-5 text-center text-sm text-gray-600">
29                     Your personal finance management tool
30                 </p>
31
32                 {% if error %}
33                     <div class="mb-4 bg-red-100 text-red-700 px-3 py-2 rounded text-sm">
34                         {{ error }}
35                     </div>
36                 {% endif %}
37
38                 <form method="POST">
39                     {% csrf_token %}
40
41                     <!-- Email -->
42                     <div class="relative mt-4">
43                         <div
44                             class="absolute inset-y-0 left-0 pl-3 flex items-center pointer-events-none"
45                         >
46                             <i data-feather="user" class="h-5 w-5 text-gray-400"></i>
47                         </div>
48
49                         <input
50                             name="username"
51                             type="text"
52                             placeholder=" "
53                             required
54                             class="peer w-full border-b-2 border-gray-300 focus:border-green-600 outline-none py-2 pl-10 text-gray-900"
55                         />

```

Activate Windows  
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```

57         <label
58             class="absolute left-10 -top-3.5 text-gray-500 text-sm transition-all peer-placeholder-shown:top-2 peer-placeholder-shown:text-base peer-focus:-top-3.5 peer-
59         >
60             Username
61         </label>
62     </div>
63
64     <div class="relative mt-6">
65         <div
66             class="absolute inset-y-0 left-0 pl-3 flex items-center pointer-events-none"
67         >
68             <i data-feather="lock" class="h-5 w-5 text-gray-400"></i>
69         </div>
70
71         <input
72             name="password"
73             type="password"
74             placeholder=" "
75             required
76             class="peer w-full border-b-2 border-gray-300 focus:border-green-600 outline-none py-2 pl-10 text-gray-900"
77         />
78
79         <label
80             class="absolute left-10 -top-3.5 text-gray-500 text-sm transition-all peer-placeholder-shown:top-2 peer-placeholder-shown:text-base peer-focus:-top-3.5 peer-
81         >
82             Password
83         </label>
84     </div>
85
86     <!-- Submit -->
87
88     <button
89         type="submit"
90         class="w-full mt-8 py-2 px-4 rounded-md text-sm font-medium text-white bg-gradient-to-r from-green-600 to-green-700 hover:from-green-700 hover:to-green-800 tr-
91         >
92             Sign in
93         </button>
94     </form>
95
96     <!-- Signup Link -->
97     <div class="mt-6 text-center">
98         <p class="text-sm text-gray-600">
99             Don't have an account?
100            <a
101                href="{% url 'signup' %}"
102                class="font-medium text-green-700 hover:text-green-600"
103            >
104                Sign up
105            </a>
106        </p>
107    </div>
108
109 </div>
110
111 <script>
112     feather.replace();
113 </script>
114 </body>
115 </html>

```

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Activate Windows  
Go to Settings to activate Windows.

## users/templates/signup.html

```

1  <!DOCTYPE html>
2  <html lang="en" class="h-full bg-gray-50">
3      {% load static %}
4      <head>
5          <meta charset="UTF-8" />
6          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7          <title>Financeo - Sign Up</title>
8          <script src="https://cdn.tailwindcss.com"></script>
9          <script src="https://cdn.jsdelivr.net/npm/feather-icons/dist/feather.min.js"></script>
10         <script src="https://unpkg.com/feather-icons"></script>
11         <script defer src="{% static 'js/main.js' %}"></script>
12     <style>
13         @import url("https://fonts.googleapis.com/css2?family=Inter:wght@300;400;500;600;700&display=swap");
14
15     body {
16         font-family: "Inter", sans-serif;
17     }
18     </style>
19 </head>
20
21 <body class="h-full bg-gradient-to-b from-green-600 to-green-900">
22     <div class="min-h-full flex flex-col justify-center py-12 sm:px-6 lg:px-8">
23         <div class="sm:mx-auto sm:w-full sm:max-w-md">
24             <div class="bg-white py-8 px-4 shadow sm:rounded-lg sm:px-10">
25                 <div class="mb-4">
26                     <a

```

Activate Windows  
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```

27                     href="{% url 'login' %}"
28                     class="inline-flex items-center text-sm text-gray-600 hover:text-primary-600 transition-colors"
29                 >
30                     <i data-feather="arrow-left" class="h-4 w-4 mr-1"></i>
31                     Back to Login
32                 </a>
33             </div>
34             <h2 class="mt-2 text-center text-3xl font-extrabold text-gray-900">
35                 Create your account
36             </h2>
37             <p class="mt-2 mb-5 text-center text-sm text-gray-600">
38                 Start managing your finances today
39             </p>
40
41             <form class="space-y-6" action="{% url 'signup' %}" method="POST">
42                 {% csrf_token %}
43                 <div class="relative">
44                     <div
45                         class="absolute inset-y-0 left-0 pl-3 flex items-center pointer-events-none"
46                     >
47                         <i data-feather="user" class="h-5 w-5 text-gray-400"></i>
48                     </div>
49                     <input
50                         id="username"
51                         name="username"
52                         type="text"
53                         placeholder=" "
54                         autocomplete="username"
55                         required
56                         class="peer w-full border-b-2 border-gray-300 focus:border-primary-500 outline-none py-2 pl-10 text-gray-900"

```

Activate Windows  
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```

57          />
58          <label
59            for="username"
60            class="absolute left-10 -top-3.5 text-gray-500 text-sm transition-all peer-placeholder-shown:top-2 peer-placeholder-shown:text-gray-400 peer-placeholder-sho
61          >
62            Username
63          </label>
64        </div>
65
66        <div class="relative">
67          <div
68            class="absolute inset-y-0 left-0 pl-3 flex items-center pointer-events-none"
69          >
70            <i data-feather="lock" class="h-5 w-5 text-gray-400"></i>
71          </div>
72          <input
73            id="password"
74            name="password"
75            type="password"
76            placeholder=" "
77            autocomplete="new-password"
78            required
79            class="peer w-full border-b-2 border-gray-300 focus:border-primary-500 outline-none py-2 pl-10 text-gray-900"
80          />
81          <label
82            for="password"
83            class="absolute left-10 -top-3.5 text-gray-500 text-sm transition-all peer-placeholder-shown:top-2 peer-placeholder-shown:text-gray-400 peer-placeholder-sho
84          >
85            Password
86          </label>

```

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```

87          <div
88            class="absolute inset-y-0 right-0 pr-3 flex items-center cursor-pointer"
89            onclick="togglePasswordVisibility('password')"
90          >
91            <i
92              data-feather="eye"
93              class="h-5 w-5 text-gray-400"
94              id="password-eye"
95            ></i>
96          </div>
97        </div>
98
99        <div class="relative">
100          <div
101            class="absolute inset-y-0 left-0 pl-3 flex items-center pointer-events-none"
102          >
103            <i data-feather="lock" class="h-5 w-5 text-gray-400"></i>
104          </div>
105          <input
106            id="confirm-password"
107            name="confirm-password"
108            type="password"
109            placeholder=" "
110            autocomplete="new-password"
111            required
112            class="peer w-full border-b-2 border-gray-300 focus:border-primary-500 outline-none py-2 pl-10 text-gray-900"
113          />
114          <label
115            for="confirm-password"
116            class="absolute left-10 -top-3.5 text-gray-500 text-sm transition-all peer-placeholder-shown:top-2 peer-placeholder-shown:text-gray-400 peer-placeholder-sho

```

Activate Windows  
Go to Settings to activate Windows.

```

117      >
118      Confirm Password
119    </label>
120    <div
121      class="absolute inset-y-0 right-0 pr-3 flex items-center cursor-pointer"
122      onclick="togglePasswordVisibility('confirm-password')"
123    >
124      <i
125        data-feather="eye"
126        class="h-5 w-5 text-gray-400"
127        id="confirm-password-eye"
128      ></i>
129    </div>
130    {%- if error %}
131    <div class="text-center">
132      <p class="text-red-500 text-sm mb-4">{{ error }}</p>
133    </div>
134    {%- endif %}
135  </div>
136
137  <div>
138    <button
139      type="submit"
140      class="w-full flex justify-center py-2 px-4 rounded-md text-sm font-medium text-white bg-gradient-to-r from-primary-500 to-secondary-500 hover:from-primary-600"
141    >
142      Create Account
143    </button>
144  </div>
145</form>
146

```

Activate Windows  
Go to Settings to activate Windows.

```

147  <div class="mt-6 text-center">
148    <p class="text-sm text-gray-600">
149      Already have an account?
150    <a
151      href="{% url 'login' %}"
152      class="font-medium text-primary-600 hover:text-primary-500"
153    >
154      Sign in
155    </a>
156  </p>
157  </div>
158  </div>
159  </div>
160</div>
161
162<script>
163  feather.replace();
164
165  function togglePasswordVisibility(inputId) {
166    const input = document.getElementById(inputId);
167    const eyeIcon = document.getElementById(inputId + "-eye");
168
169    if (input.type === "password") {
170      input.type = "text";
171      eyeIcon.setAttribute("data-feather", "eye-off");
172    } else {
173      input.type = "password";
174      eyeIcon.setAttribute("data-feather", "eye");
175    }
176    feather.replace();
177  }
178</script>
179</body>
180</html>

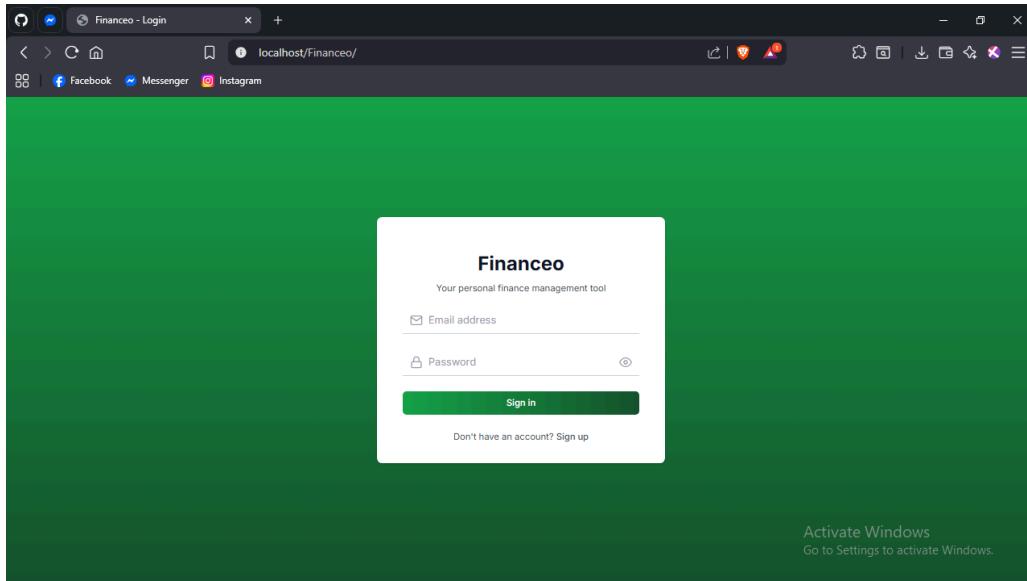
```

Activate Windows  
Go to Settings to activate Windows.

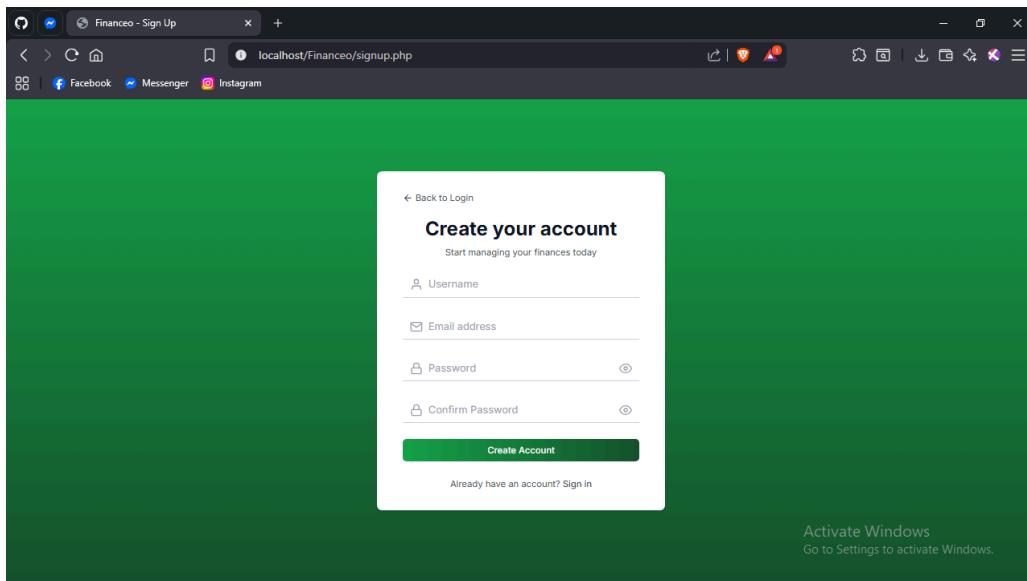
Activate Windows

## SCREENSHOTS OF THE SYSTEM

### Log-in Page



### Sign-up Page



## Dashboard

The dashboard displays a summary of financial activity. On the left, a sidebar menu includes Dashboard, Accounts, Transactions, Category, Budgets, Reports, Settings, and Log-out. The main area shows:

- Total Income:** \$1284.00 (green text)
- Total Expenses:** \$1700.00 (red text)
- Top 5 Expense Categories:** Rent (blue bar chart showing \$1700.00)
- Account Balances:**

Main Checking (Checking)	\$10084.00
Primary Savings (Savings)	\$-500.00
Visa Card (Credit Card)	\$5.00
- Recent Transactions:**

Date	Category	Amount
Nov 30	Rent	\$500.00
Nov 30	Freelance	\$50.00
Nov 03	Test Category	\$1234.00
Nov 01	Rent	\$1200.00
Oct 26	Freelance	\$5.00

## Accounts

The accounts page shows the creation of a new account and a list of existing accounts. The sidebar menu is identical to the dashboard.

**Add New Account:**

Name:

Type:  Checking

Current balance:  0.0

**Add Account** button

**Your Accounts:**

ACCOUNT NAME	TYPE	BALANCE	Update	Delete
Main Checking	Checking	\$10084.00	<a href="#">Update</a>	<a href="#">Delete</a>
Primary Savings	Savings	\$-500.00	<a href="#">Update</a>	<a href="#">Delete</a>
Visa Card	Credit Card	\$5.00	<a href="#">Update</a>	<a href="#">Delete</a>

## Transactions

The Transactions page displays a list of transactions. The table has the following columns:

Date	Account	Category	Description	Amount	Actions
Nov 30, 2025	Primary Savings	Rent	-	-\$500.00	<button>Edit</button> <button>Delete</button>
Nov 30, 2025	Main Checking	Freelance	test add	+\$50.00	<button>Edit</button> <button>Delete</button>
Nov 03, 2025	Main Checking	Test Category	-	+\$1234.00	<button>Edit</button> <button>Delete</button>
Nov 01, 2025	Main Checking	Rent	Monthly Rent	-\$1200.00	<button>Edit</button> <button>Delete</button>
Oct 26, 2025	Visa Card	Freelance	-	+\$5.00	<button>Edit</button> <button>Delete</button>

## Add Transaction

The Create Transaction modal contains the following fields:

- Account: A dropdown menu showing "-----"
- Type: A dropdown menu showing "-----"
- Category: A dropdown menu showing "-----"
- Amount: An input field showing "-----"
- Date: An input field showing "mm/dd/yyyy" with a calendar icon
- Description: A text input field showing "-----"

At the bottom are two buttons: "Create Transaction" (blue) and "Cancel" (grey).

## Category

The screenshot shows a user interface for managing categories. On the left is a dark sidebar with a profile icon for 'alice' and links: Dashboard, Accounts, Transactions, **Category**, Budgets, Reports, Settings, and Log-out. The main area has a teal header 'Categories' and a blue button '+ Add Category'. Below is a table listing categories:

Category Name	Type	Action	Action	Action
Groceries	Expense	Update	Delete	
Rent	Expense	Update	Delete	
Restaurants	Expense	Update	Delete	
Utilities	Expense	Update	Delete	
Freelance	Income	Update	Delete	
Salary	Income	Update	Delete	
Test Category	Income	Update	Delete	

## Add Category

The screenshot shows a 'Create Category' dialog box over a teal background. The sidebar on the left is identical to the previous screenshot. The dialog box has a white header 'Create Category' and two input fields: 'Category Name' (with placeholder 'Category name') and 'Type' (set to 'Expense'). At the bottom are blue 'Create Category' and grey 'Cancel' buttons.

## Budgets

The screenshot shows the 'Budgets' section of a financial application. On the left is a dark sidebar with navigation links: Dashboard, Accounts, Transactions, Category, **Budgets**, Reports, and Settings. At the bottom of the sidebar is a 'Log-out' link. The main area has a teal header 'Add New Budget'. It contains fields for 'Category' (dropdown), 'Amount' (text input), 'Start date' (date input), and 'End date' (date input). A blue 'Add Budget' button is at the bottom. Below this is a section titled 'Your Budgets' with a table:

CATEGORY	AMOUNT	START DATE	END DATE	Update	Delete
Groceries	\$500.00	Nov. 1, 2025	Nov. 30, 2025	<a href="#">Update</a>	<a href="#">Delete</a>
Restaurants	\$150.00	Nov. 1, 2025	Nov. 30, 2025	<a href="#">Update</a>	<a href="#">Delete</a>

## Reports

The screenshot shows the 'Reports' section of the application. The sidebar is identical to the 'Budgets' section. The main area contains two charts:

**Expense Breakdown**

Expense Breakdown by Category

Rent

**Income vs Expense**

Income vs Expense

Category	Amount
Income	~1300
Expense	~1600

## Settings

The screenshot shows a user interface for account management. At the top left is a circular profile icon with a red bookmark-like shape and the name "alice". To its right is a button labeled "alice" with a checked checkbox. Below this is a sidebar on the left with the following menu items:

- Dashboard
- Accounts
- Transactions
- Category
- Budgets
- Reports
- Settings** (selected)
- Log-out

The main content area is a white form with the following fields:

- Username:** "alice" with a "Update Username" button.
- Profile Picture:** A placeholder "Choose File No file chosen" with a "Update Picture" button.
- E-Mail Address:** "alice@example.com" with a "New E-Mail Address" input field and a "Update E-mail" button.
- Password:** Fields for "Current Password", "New Password", and "Confirm New Password", along with a "Change Password" button.