Project Structure:

ASP.NET Web Core API:

```
├───Controllers
│       AdminController.cs
│       AuthController.cs
│       CustomersController.cs
│       LoansController.cs
│       NotificationsController.cs
│       PaymentsController.cs
│
├───Data
│       AppDbContext.cs
│       AppDbContextFactory.cs
│       DataSeeder.cs
│       SeedData.cs
│
├───DTOs
│       AccountSummaryDto.cs
│       AdminCreateUserDto.cs
│       ApplyLoanDto.cs
│       ApplyLoanResponseDto.cs
│       AuthResponseDto.cs
│       EmiDto.cs
│       LoanApprovalDto.cs
│       LoanStatusDto.cs
│       LoanSummaryDto.cs
│       LoanTypeDto.cs
│       LoginDto.cs
│       NotificationDto.cs
│       OverallAccountSummaryDto.cs
│       PayEmiDto.cs
│       PendingRoleRequestDto.cs
│       ProfileDto.cs
│       RegisterDto.cs
```
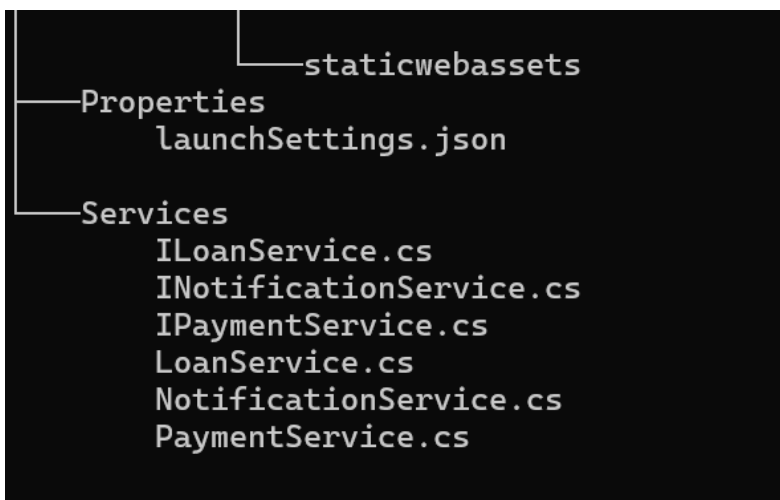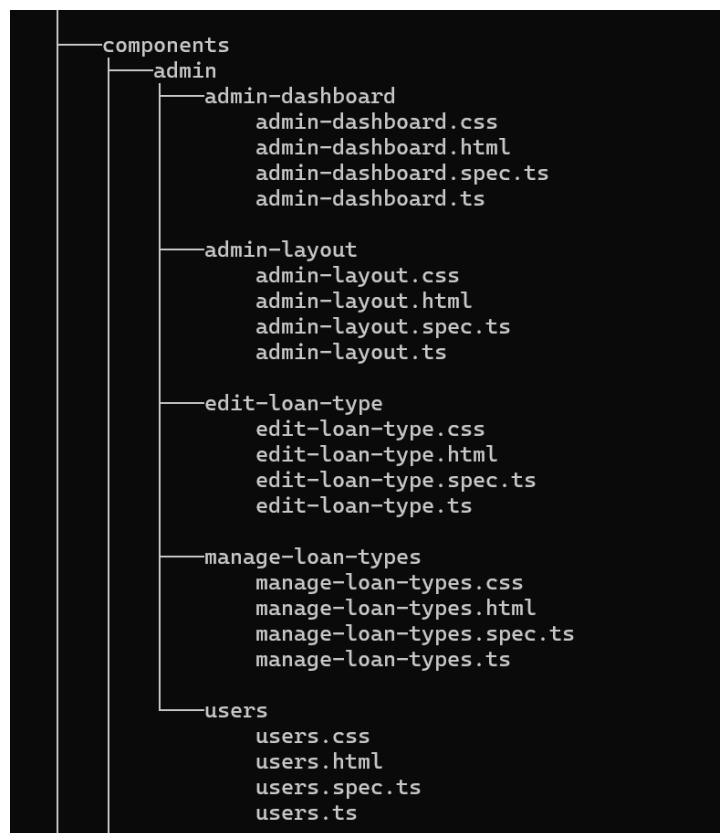
```
├───Middleware
│       GlobalExceptionMiddleware.cs
│
├───Migrations
│       20260102114541_InitialCreate.cs
│       20260102114541_InitialCreate.Designer.cs
│       20260105053031_AddRemarksToLoanApplication.cs
│       20260105053031_AddRemarksToLoanApplication.Designer.cs
│       20260105063903_AddRemarksNullToLoanApplication.cs
│       20260105063903_AddRemarksNullToLoanApplication.Designer.cs
│       20260105111751_AddNotifications.cs
│       20260105111751_AddNotifications.Designer.cs
│       20260106112200_AddEmiPrincipalAmount.cs
│       20260106112200_AddEmiPrincipalAmount.Designer.cs
│       20260106114010_AddEmiInterestAmount.cs
│       20260106114010_AddEmiInterestAmount.Designer.cs
│       20260106130104_AddNotification.cs
│       20260106130104_AddNotification.Designer.cs
│       20260106135155_FixNotificationNullables.cs
│       20260106135155_FixNotificationNullables.Designer.cs
│       AppDbContextModelSnapshot.cs
│
├───Models
│       ApplicationUser.cs
│       Customer.cs
│       EMI.cs
│       LoanApplication.cs
│       LoanType.cs
│       Notification.cs
│       NotificationEvent.cs
│       NotificationQueue.cs
```

```
              └──staticwebassets
        ──Properties
              launchSettings.json

        ──Services
              ILoanService.cs
              INotificationService.cs
              IPaymentService.cs
              LoanService.cs
              NotificationService.cs
              PaymentService.cs
```

Loan Management - Frontend (Angular):

```
      ──components
        ──admin
            ──admin-dashboard
                  admin-dashboard.css
                  admin-dashboard.html
                  admin-dashboard.spec.ts
                  admin-dashboard.ts

            ──admin-layout
                  admin-layout.css
                  admin-layout.html
                  admin-layout.spec.ts
                  admin-layout.ts

            ──edit-loan-type
                  edit-loan-type.css
                  edit-loan-type.html
                  edit-loan-type.spec.ts
                  edit-loan-type.ts

            ──manage-loan-types
                  manage-loan-types.css
                  manage-loan-types.html
                  manage-loan-types.spec.ts
                  manage-loan-types.ts

            ──users
                  users.css
                  users.html
                  users.spec.ts
                  users.ts
```

```
├───customer
│   ├───applyloan
│   │       applyloan.css
│   │       applyloan.html
│   │       applyloan.spec.ts
│   │       applyloan.ts
│   │
│   ├───cust-dashboard
│   │       cust-dashboard.css
│   │       cust-dashboard.html
│   │       cust-dashboard.spec.ts
│   │       cust-dashboard.ts
│   │
│   ├───customer-layout
│   │       customer-layout.css
│   │       customer-layout.html
│   │       customer-layout.spec.ts
│   │       customer-layout.ts
│   │
│   ├───emi-report
│   │       emi-report.css
│   │       emi-report.html
│   │       emi-report.spec.ts
│   │       emi-report.ts
│   │
│   ├───my-loans
│   │       my-loans.css
│   │       my-loans.html
│   │       my-loans.spec.ts
│   │       my-loans.ts
│   │
│   ├───my-profile
│   │       my-profile.css
│   │       my-profile.html
│   │       my-profile.spec.ts
│   │       my-profile.ts
│   │
│   └───pay-emi
│           pay-emi.css
│           pay-emi.html
│           pay-emi.spec.ts
│           pay-emi.ts
│
├───loanofficer
│   ├───off-dashboard
│   │       off-dashboard.css
│   │       off-dashboard.html
│   │       off-dashboard.spec.ts
│   │       off-dashboard.ts
│   │
│   ├───off-loan-details
│   │       off-loan-details.css
│   │       off-loan-details.html
│   │       off-loan-details.spec.ts
│   │       off-loan-details.ts
│   │
│   ├───officer-layout
│   │       officer-layout.css
│   │       officer-layout.html
│   │       officer-layout.spec.ts
│   │       officer-layout.ts
```

```
            └──review-list
                    review-list.css
                    review-list.html
                    review-list.spec.ts
                    review-list.ts

    ├──login
            login.css
            login.html
            login.spec.ts
            login.ts

    ├──notifications
            notifications.css
            notifications.html
            notifications.spec.ts
            notifications.ts

    ├──register
            register.css
            register.html
            register.spec.ts
            register.ts

    └──welcome
            welcome.css
            welcome.html
            welcome.spec.ts
            welcome.ts
```

```
    ├──guards
            auth-guard.spec.ts
            auth-guard.ts
            role-guard.spec.ts
            role-guard.ts

    ├──interceptors
            auth-interceptor.spec.ts
            auth-interceptor.ts

    ├──models
            customer.ts
            Emi.ts
            loan.ts
            loanType.ts
            notification.ts

    └──services
            admin-service.spec.ts
            admin-service.ts
            auth-service.spec.ts
            auth-service.ts
            customer-service.spec.ts
            customer-service.ts
            loan-service.spec.ts
            loan-service.ts
            notification-service.spec.ts
            notification-service.ts
            payment-service.spec.ts
            payment-service.ts
```