

# Introduction

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# Project Overview

**OnMarket Landing** is a comprehensive Angular-based e-commerce marketplace application. It provides a full-featured online shopping platform with product browsing, cart management, checkout, user profiles, affiliate program, and real-time chat functionality.

## Key Capabilities

- Product browsing and search
  - Shopping cart and checkout
  - User authentication and profile management
  - Affiliate marketing program
  - Store management
  - Real-time chat via WebSockets
  - Multiple payment integrations
  - Order tracking and history
  - Voucher and promotion system
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## Technology Stack

### Core Framework

- **Angular:** v12.2.2
- **TypeScript:** v4.3.5
- **RxJS:** v6.6.3 (Reactive Programming)

### UI/UX Libraries

- **Angular Material:** v12.2.2 - Material Design components
- **Angular Flex Layout:** v12.0.0 - Responsive layout system
- **Angular Animations:** v12.2.2 - Animation support
- **Font Awesome:** v6.5.1 - Icon library
- **SweetAlert2:** v10.3.3 - Beautiful alerts and modals

# Additional Libraries

- **Socket.io Client:** v4.7.5 - Real-time WebSocket communication
- **Google Maps:** v3.55.12 - Map integration
- **ApexCharts:** v3.35.0 - Interactive charts
- **jwt-decode:** v3.1.2 - JWT token decoding
- **dayjs:** v1.10.7 - Date manipulation
- **ngx-translate:** v13.0.0 - Internationalization (i18n)
- **ngx-infinite-scroll:** v10.0.1 - Infinite scrolling
- **ngx-countdown:** v11.0.3 - Countdown timers
- **ngx-perfect-scrollbar:** v10.1.1 - Custom scrollbars

# Development Tools

- **Angular CLI:** v12.2.2
- **Karma:** v6.3.4 - Test runner
- **Jasmine:** v3.9.0 - Testing framework
- **TSLint:** v6.1.0 - Code linting
- **Protractor:** v7.0.0 - E2E testing

# Installation and setup

## Prerequisites

Before you begin, ensure you have the following installed:

- **Node.js:** v12.x or higher (recommended v14.x or v16.x)
- **npm:** v6.x or higher (comes with Node.js)
- **Angular CLI:** v12.2.2

```
npm install -g @angular/cli@12.2.2
```

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## Installation & Setup

### 1. Clone the Repository

```
git clone https://github.com/ondeliveroper/on-market-landing.git
cd on-market-landing
```

### 2. Install Dependencies

```
npm install
```

### 3. Environment Configuration

The application uses environment files located in `src/environments/`:

- `environment.ts` - Development environment
- `environment.prod.ts` - Production environment

## 4. Start Development Server

```
npm start  
# or for Windows  
npm run startWindows
```

The application will be available at `http://localhost:4200/`

**Note:** The start script uses `NODE_OPTIONS='--openssl-legacy-provider'` due to OpenSSL compatibility with Angular 12.

# Project structure

```
on-market-landing/
├─ e2e/                # End-to-end tests
├─ src/
│  └─ app/
│     ├─ components/   # All UI components
│     │  └─ accounts/  # Login, signup, profile
│     │  └─ affiliate/ # Affiliate program
│     │  └─ all-bills/ # Bill payment features
│     │  └─ cart/      # Shopping cart
│     │  └─ checkout/  # Checkout process
│     │  └─ homepage/  # Home page
│     │  └─ personal-store/ # Store management
│     │  └─ product-details/ # Product detail pages
│     │  └─ search-result/ # Search functionality
│     │  └─ ...        # Other components
│     └─ interceptors/ # HTTP interceptors
│        └─ auth.interceptor.ts
│     └─ interfaces/   # TypeScript interfaces
│        └─ affiliate.ts
│        └─ balance.ts
│        └─ bank.ts
│        └─ products.ts
│        └─ user.ts
│     └─ pipes/        # Custom pipes
│        └─ phone-number.pipe.ts
│        └─ short-number-pipe.pipe.ts
│        └─ time-ago.pipe.ts
│        └─ transform-city.pipe.ts
│     └─ services/     # Business logic services
│        └─ affiliate.service.ts
│     └─ themes/       # Multiple theme layouts
│        └─ theme-one/
│        └─ theme-two/
│        └─ ...
```

```

| | └─ api.service.ts      # Main API service
| | └─ app-routing.module.ts # Route definitions
| | └─ app.component.ts    # Root component
| | └─ app.module.ts       # Main module
| | └─ auth.guard.ts       # Route authentication
| | └─ demo-material-module.ts # Material imports
| | └─ logger.service.ts   # Logging service
| | └─ sockets.service.ts  # WebSocket service
| | └─ utility.service.ts  # Utility functions
| └─ assets/               # Static assets
| | └─ css/                # Stylesheets
| | └─ images/            # Images
| | └─ ...
| └─ environments/        # Environment configs
| | └─ environment.ts
| | └─ environment.prod.ts
| └─ custom-theme.scss    # Material theme
| └─ styles.scss          # Global styles
| └─ index.html           # Main HTML file
└─ angular.json          # Angular configuration
└─ package.json          # Dependencies
└─ tsconfig.json         # TypeScript configuration
└─ tslint.json           # Linting rules
└─ karma.conf.js         # Test configuration

```

## Key Directories Explained

### `/src/app/components/`

Contains all UI components organized by feature:

- **accounts/** - User authentication and profile management
- **affiliate/** - Affiliate marketing dashboard and features
- **cart/** - Shopping cart functionality
- **checkout/** - Checkout and payment process
- **personal-store/** - Store owner features
- **product-details/** - Product information display
- **search-result/** - Search results page

### `/src/app/services/`

Business logic and reusable services:

- API integration services
- State management services
- Utility services

```
/src/app/interceptors/
```

HTTP interceptors for:

- Adding authentication tokens
- Error handling
- Request/response transformation

# Core features

## 1. E-Commerce Functionality

- Product catalog browsing
- Advanced search and filtering
- Product details with images and specifications
- Shopping cart management
- Checkout process with multiple payment options
- Order tracking and history

## 2. User Management

- User registration and login
- Phone OTP verification
- Profile management
- Address book
- Password management
- Wishlist/favorites

## 3. Affiliate Program

- Affiliate registration
- Dashboard with earnings analytics
- Commission withdrawal
- Collection management
- Custom affiliate links
- Payment settings

## 4. Store Features

- Personal store creation
- Store profile management
- Product management
- Store reviews and ratings
- Store analytics

## 5. Communication

- Real-time chat via WebSockets
- WhatsApp integration
- Message notifications
- Order-related messaging

## 6. Additional Services

- Bill payments (Pulsa, PLN, PDAM, etc.)
- Vouchers and promotions
- Flash sales
- Campaign templates
- Reviews and ratings