DIE KOFFIEBLIK

Coffee shop management system

Technical installation guide

Version 2.0

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Contents

Introduction

The coffee shop manager is designed to streamline coffee shop operations. This manages core functionality including order processing, inventory tracking and sales analytics: The system consists of two primary components:

- Web application: A web interface built with Next.js 15.3.4 and React 19.1.0.
- Mobile application: App developed in React Native v19.0.0 and Expo Go.

Prerequisites

Before installing the coffee shop manager system ensure that you have the following software installed on your system:

Software	**Version**
Node.js	22.16.0 or higher
Npm	10.9.2 or higher
Docker	28.2.2 or higher
Git	2.34.1 or higher

Operating system support

- Windows: 10 / 11
- Linux: Ubuntu 20.04 or equivalent

Windows installation

1. **Install Node.js**

- Download Node.js from https://nodejs.org/en/download
- Download the LTS version
- Run the installer
- Verify the installation: Npm --version

2. **Install Docker desktop**

- Download Docker desktop from https://www.docker.com/products/docker-desktop/
- Run the installer
- Verify the installation: docker –version

3. **Install Git**

    - Download Git from: https://git-scm.com/downloads
    - Run the installer

- Verify the installation: git --version

Linux installation

1. **Install Node.js**
    - Update package: sudo apt update
    - Install Node.js: curl -fsSL https://deb.nodesource.com/setup_18.x | sudo -E bash - sudo apt-get install -y nodejs
    - Verify installation: npm --version

2. **Install Docker**
    - To install docker for Ubuntu please follow the link: https://docs.docker.com/engine/install/ubuntu/

3. **Install Git**
    - Sudo apt-get install git
    - Git --version

Mobile application installation

The mobile app is developed using React Native v19.0.0 and Expo Go for testing on mobile device.

1. Install Node.js v22.16.0 or later.
2. V10.9.2 or later.
3. Install Expo Go for android or IOS

Clone the repository

Open your command prompt and navigate to the directory where you want to place the cloned project:

- Clone the repository: git clone https://github.com/yourusername/coffee-shop-manager.git
- Open the project directory

Supabase setup

There are two options available for setting up the Supabase:

Option 1: Use hosted Supabase

1. Navigate to: supabase/volumes/db/init inside the folder of the coffee shop manager cloned from GitHub
2. Copy all the contents of this directory
3. Paste the contents into the SQL editor provided by the hosted Supabase dashboard.
4. Run the script to initialize the database schema.

Option 2: Self hosted with Docker

Prerequisites

Before running the self-hosted Supabase ensure the following are in place.

1. Ensure Docker is installed.
2. An .env.prod file exists in the root with the following variables:

```
# Server Configuration
HOST=localhost
API_PORT=5000

# Supabase Configuration
SUPABASE_PUBLIC_DOCKER_URL=https://<your-supabase-project>.supabase.co
SUPABASE_PUBLIC_URL=https://<your-supabase-project>.supabase.co
SERVICE_ROLE_KEY=<your-service-role-key>

# API Configuration
NEXT_PUBLIC_API_URL=http://localhost:5000
```

3. In the project root run the following command: ENV_FILE=.env.prod docker compose --profile prod up -d
4. The above command will start the production Supabase instance using the environment variables defined in the .env.prod

Hot toast integration

The system uses React Hot Toast to provide responsive notifications for actions such as placing orders, updating inventory and error handling.

- **Installed via npm**
  - npm install react-hot-toast
- Hot toast enables notifications to appear automatically during key actions in both the web and mobile applications

Lottie React animations

Lottie react is integrated for lightweight animations to enhance the user interface when pages are loading.

- Installed via npm:

    - Npm install lottie-react
- Animations are used for loading states, order confirmations and to improve overall user experience.

Deployment / Running

Method 1: Using Docker

1. Build and start all services:
   1.1 Build the application: ENV_FILE=.env.prod docker compose --profile prod up -d
   1.2 Access the website: http://localhost:3000
   1.3 Access supabase: http://localhost:8000
   1.4 Access the API: http://localhost:5000
   1.5 Stop all services: ENV_FILE=.env docker compose --profile dev down

Method 2: Access using the URL

The website is live and can be accessed at:

https://www.diekoffieblik.co.za/

Running the mobile App

1. Navigate to the DieKoffieBlikApp directory.
2. Start the Expo development server: npm run clear
3. Once the server is running a QR code will be displayed in the terminal.
4. Open the Expo Go app on your mobile device and scan the QR code.
5. Any changes made will automatically update and reflect in the app.

Additional resources

User manual

For a detailed breakdown of how to use the coffee shop manager please refer to the user manual.

API documentation

API endpoints documentation : https://documenter.getpostman.com/view/34354291/2sB3BEmpU7

Development Resources

- Next.js Documentation : https://nextjs.org/docs
- React Documentation: https://react.dev/
- Docker Documentation : https://docs.docker.com/
- Supabase Documentation : https://supabase.com/docs