

# Project Overview

## Offline Kiosk - Complete Documentation

“ Comprehensive documentation for the Offline Kiosk system

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## Project Overview

A React-based offline-first kiosk system for laundry machines with Node.js backend, MQTT integration, payment processing, and WiFi management.

## Architecture

### System Components

- Frontend (React)** - User interface kiosk application
- Backend (Node.js)** - API server and business logic
- Database (PostgreSQL)** - Data persistence
- MQTT Broker (EMQX)** - Real-time messaging
- Deployment Service** - Automated deployment management
- WiFi Manager** - Network connectivity management

## Documentation Modules

- [React Frontend Application](#)

- [Node.js Backend Server](#)
- [Automated Deployment Service](#)
- [WiFi Management Scripts](#)
- [Infrastructure and Docker Configuration](#)

# Quick Start

## Prerequisites

- Docker and Docker Compose
- Node.js 20+
- Git

## Installation

```
# Clone the repository
git clone <repository-url>
cd offline-kiosk

# Start all services
docker-compose up -d
```

# Environment Variables

## Backend Server

- `NODE_ENV` - Environment (production/development)
- `DB_HOST` - PostgreSQL host
- `DB_PORT` - PostgreSQL port
- `DB_NAME` - Database name
- `DB_USERNAME` - Database username
- `DB_PASSWORD` - Database password
- `MQTT_BROKER_URL` - MQTT broker URL
- `MQTT_USERNAME` - MQTT username
- `MQTT_PASSWORD` - MQTT password

# Contributing

This documentation is automatically generated from source code comments. To update the documentation:

1. Update comments in the source code
2. Push changes to the repository
3. CI/CD pipeline will automatically update BookStack

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