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# Real-World Implementation & Deployment of the Digital Menu System

1. I**ntroduction**

Winning an award in a startup contest is a confirmation of the promise our Digital Menu System has. The next step is shifting from a working prototype to a fully functional real-world application. This document describes the implementation and operational deployment plans that detail the steps needed to integrate our system in working restaurant settings.

2. **Implementation Strategy**

**Phase 1**: System Enhancement & Scalability - Database Migration: Move from local Oracle database to a cloud-based database for better accessibility. (AWS RDS, Firebase Fire store) - Multi-Language Support: Expand beyond English to support Chinese, Japanese, and Korean translations. - Mobile App Development: Develop an iOS and Android application using React Native for better accessibility. - User Access Management: Create an admin and staff accounts for shop owners to control menu items on a dynamic basis.

**Phase 2**: Pilot Testing with Restaurants - Choose 5 to 10 restaurants for initial beta testing. - Implement tablet-based kiosk ordering in select restaurant locations. - Analyze user input and adjust UI/UX designs based on user feedback. - Integrate POS systems for accurate order placement.

**Phase 3**: Full-Scale Deployment - Cloud Hosting & Deployment: Host on AWS, Google Cloud, or Azure to provide scalable infrastructure.

- Subscription Model for Restaurants: Use a SaaS-pricing plan where restaurants can pay either monthly or pay-per-transaction.

- Marketing & Partners: Work alongside hotel chains and tour companies to help them reach a broader audience.

3. **Deployment & Operations**

**Deployment Steps**

1. Cloud Server Configuration: Set up backend with AWS Lambda, Firebase, or Digital Ocean.

2. Web & Mobile Deployment: Publish the web admin portal and the mobile application.

3. Mergers with Other Services: Integrate restaurant POS and other ordering systems.

4. Customer Training and Support: Conduct training for restaurant staff and provide ongoing technical support.

**Ongoing Maintenance and Improvements**

- Support Performance: Employ Google Analytics & AWS CloudWatch for real-time updates.

- Security & Privacy: Using SSL encryption is essential, as is storing data in accordance with the GDPR.

- AI-Based Improvements: Modify menu based on the client’s habits in future AI-enhanced systems.

4. **Conclusion**

The Digital Menu System is commercially ready and provides a scalable, AI-powered, multilingual solution for restaurants. With innovative partner models, cloud, and constant development, we can make a difference in the food & hospitality industries by improving the speed and quality of service accessibility.