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| ID | Requirement type | Description | Priority (High/Medium/Low) |
| FR1 | Functional | Customers shall be able to make table reservations online and in person. | High |
| FR2 | Functional | The system shall track walk-in customers and assign tables dynamically. | High |
| FR3 | Functional | Waiters shall input customer orders through a digital interface. | High |
| FR4 | Functional | Orders shall be relayed to the kitchen in real time. | High |
| FR5 | Functional | Kitchen staff shall update order statuses in real time. | High |
| FR6 | Functional | The system shall track inventory levels and notify managers when stock is low. | High |
| FR7 | Functional | The system shall allow the manager to update the menu dynamically. | Medium |
| FR8 | Functional | The system shall manage employee scheduling and shifts. | Medium |
| FR9 | Functional | The system shall generate financial reports (daily, weekly, and monthly). | High |
| FR10 | Functional | Users shall have different roles and permissions (waiters, chefs, managers). | High |
| FR11 | Functional | The system shall support customer loyalty programs, including tracking rewards and redemption options. | Medium |
| FR12 | Functional | The system shall allow customers to view live waiting times for table reservations. | Medium |
| FR13 | Functional | The system shall enable customers to leave feedback and rate their dining experience. | Medium |
| FR14 | Functional | The system shall generate personalized promotions and discounts for customers. | Medium |
| FR15 | Functional | The system shall include a feature for handling online food delivery orders. | High |
| FR16 | Functional | The system shall allow staff to manage multiple languages for international customers. | Medium |
| FR17 | Functional | The system shall provide a feature to split bills between multiple customers. | Medium |
| FR18 | Functional | The system shall integrate with payment gateways for digital transactions. | High |
| FR19 | Functional | The system shall allow staff to manage table layouts and seating arrangements. | Medium |
| FR20 | Functional | The system shall allow integration with third-party food delivery platforms. | Medium |
| FR21 | Functional | The system shall allow managers to set and monitor sales targets for employees. | Medium |
| FR22 | Functional | The system shall allow customers to pre-order food before arriving at the restaurant. | Medium |
| FR23 | Functional | The system shall track customer preferences and dietary restrictions. | Medium |
| FR24 | Functional | The system shall allow staff to process refunds and handle disputes. | Medium |
| FR25 | Functional | The system shall enable notification alerts for pending tasks (e.g., unpaid bills, delayed orders). | Medium |
| FR26 | Functional | The system shall track energy and utility usage in the restaurant. | Low |
| FR27 | Functional | The system shall provide performance analytics for staff and menu items. | Medium |
| FR28 | Functional | The system shall support seasonal or promotional menu updates with start and end dates. | Medium |
| FR29 | Functional | The system shall allow customers to customize their orders. | Medium |
| FR30 | Functional | The system shall integrate with a queue management system. | Medium |
| NFR1 | Non-Functional | The system shall have a response time of less than 2 seconds for most operations. | High |
| NFR2 | Non-Functional | The system shall ensure secure access with authentication and authorization. | High |
| NFR3 | Non-Functional | The system shall be accessible on both mobile and desktop devices. | Medium |
| NFR4 | Non-Functional | The system shall provide automatic data backups at regular intervals. | Medium |
| NFR5 | Non-Functional | The system shall scale seamlessly to handle high traffic during peak hours. | High |
| NFR6 | Non-Functional | The system shall comply with relevant data protection and privacy regulations (e.g., GDPR). | High |
| NFR7 | Non-Functional | The system shall ensure compatibility with popular POS hardware. | Medium |
| NFR8 | Non-Functional | The system shall log all user actions for auditing purposes. | Medium |
| NFR9 | Non-Functional | The system shall provide an intuitive user interface to reduce the learning curve for staff. | Medium |
| NFR10 | Non-Functional | The system shall support multilingual user interfaces for staff and customers. | Medium |
| NFR11 | Non-Functional | The system shall provide downtime notifications and alternative procedures. | Low |
| NFR12 | Non-Functional | The system shall support cross-platform data synchronization. | Medium |
| NFR13 | Non-Functional | The system shall maintain an uptime of 99.9%. | High |
| NFR14 | Non-Functional | The system shall encrypt all sensitive customer data. | High |
| NFR15 | Non-Functional | The system shall allow exporting data in multiple formats (e.g., PDF, CSV). | Medium |
| NFR16 | Non-Functional | The system shall allow customization of system themes and branding. | Low |
| NFR17 | Non-Functional | The system shall ensure real-time synchronization for multi-location restaurants. | Medium |
| NFR18 | Non-Functional | The system shall provide automated reminders for maintenance (e.g., cleaning kitchen equipment). | Medium |
| NFR19 | Non-Functional | The system shall allow integration with loyalty program APIs. | Medium |
| NFR20 | Non-Functional | The system shall allow reporting of environmental sustainability metrics. | Low |