

Software Requirements

Operating System

- **Server Side**
 - Windows Server / Linux (Ubuntu 20.04 or higher)
- **Client Side**
 - Windows 10 or above
 - macOS
 - Android / iOS (via mobile browser)

Frontend Software

- HTML5
- CSS3
- JavaScript
- Frontend framework (React.js)
- Responsive UI libraries (Bootstrap)

Backend Software

- Node.js with Express.js
- RESTful API architecture

Database Software

- NoSQL Database:
 - MongoDB

Web Server

- Apache / Nginx

Payment Gateway Software

- Third-party Payment API:
 - Stripe

Development Tools

- Code Editor / IDE:
 - Visual Studio Code
- Version Control:
 - Git & GitHub
- API Testing:
 - Postman
- Browser Testing:
 - Chrome, Firefox, Edge

Security Software

- SSL/TLS Certificate for HTTPS
 - Authentication using JWT / OAuth
 - Password encryption using bcrypt / hashing algorithms
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Hardware Requirements

Server Hardware

- Processor: Intel Core i5 / AMD Ryzen 5 or higher
- RAM: Minimum 8 GB
- Storage: Minimum 256 GB SSD
- Network: Stable broadband internet connection

Client Hardware

- Desktop / Laptop / Smartphone / Tablet
- Processor: Dual-core or higher
- RAM: Minimum 4 GB
- Storage: At least 1 GB free space
- Internet: Stable internet connection (Wi-Fi / Mobile Data)

Peripheral Devices (Optional)

- Printer (for order receipts in restaurants)
 - POS system (optional future integration)
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Network Requirements

- Minimum Internet Speed:
 - 2 Mbps for users
 - 10 Mbps for server hosting
 - Secure HTTPS communication
 - Firewall support for server protection
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Cloud & Hosting (Optional)

- Cloud Platforms:
 - AWS / Azure / Google Cloud
 - Services:
 - Cloud database
 - Load balancer
 - Auto-scaling support
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Compatibility Requirements

- Compatible with all modern web browsers
- Mobile-responsive design for smartphones and tablets
- Cross-platform access without installation