# Nayifat App Production Deployment Requirements

## 1. ASP.NET Core API Requirements

* - .NET 8.0 Runtime
* - Microsoft SQL Server 2022 (or latest stable version)
* - SSL Certificate for HTTPS
* - IIS Web Server (latest version)

## 2. Database Requirements

### Database Server Configuration:

* - Authentication Mode: Both Windows Authentication and SQL Server Authentication
* - Admin Access: Full administrative access to create and modify tables
* - Management Tool: SQL Server Management Studio (SSMS) for database management

## 3. Server Configuration

### Minimum Specifications:

* - CPU: 4 cores
* - RAM: 16GB minimum
* - Storage: 500GB SSD minimum

### Network Requirements:

* - Port 443 (HTTPS)
* - Port 1433 (SQL Server)
* - Static IP address
* - Firewall rules to allow Flutter app connections

## 4. Environment Configuration

JSON Configuration:

{

"ConnectionStrings": {

"DefaultConnection": "Server=SERVER\_NAME;Database=NayifatApp;User Id=DB\_USER;Password=DB\_PASSWORD;TrustServerCertificate=True;MultipleActiveResultSets=true"

},

"Logging": {

"LogLevel": {

"Default": "Information",

"Microsoft.AspNetCore": "Warning"

}

}

}

## 5. Security Requirements

* - SSL/TLS certificate for API domain
* - API Key authentication system
* - SQL Server account with appropriate permissions
* - Regular backup schedule for database
* - Web Application Firewall (WAF)

## 6. Monitoring Requirements

* - Application logging system
* - Database monitoring
* - Server resource monitoring
* - API endpoint monitoring
* - Error tracking system

## 7. Backup Requirements

* - Daily database backups
* - Transaction log backups
* - Backup retention policy
* - Disaster recovery plan

## Notes

* - Regular security audits should be scheduled
* - System updates and maintenance windows should be defined
* - Performance monitoring thresholds should be established