

1. Purpose

This document describes the hardware, software, network, and security requirements needed before installing the AGen Application on the customer PC or server.

2. Application Information

Item	Details
Application Name	AGen Software
Version	1.0
Technology	ASP.NET Core 6
Database	SQL Server Express 2022
Operating System	Windows Server / Windows Client
Deployment Type	Web Application + Android Application

3. Hardware Requirements

Application Server

Component	Minimum	Recommended
CPU	2 Core	4 Core
RAM	8 GB	16 GB
Storage	50 GB Free Space	100 GB or more (base on image capture)
Network	100 Mbps	1 Gbps

Database Server

Component	Minimum	Recommended
CPU	2 Core	4 Core
RAM	4 GB	8 GB
Storage	20 GB Free Space	50 GB SSD

4. Software Requirements**Operating System**

Supported Operating Systems:

- Windows Server 2019
- Windows Server 2022
- Windows 11 Professional Edition

Required Software

Software	Version
.NET Runtime	.NET 6 Hosting Bundle
IIS	IIS 10.0 or later
SQL Server Express	SQL Server Express 2022
Browser	Chrome, Edge, Firefox (latest versions)

5. IIS Requirements

Ensure IIS is installed with:

- Web Server (IIS)
- ASP.NET Core Hosting Bundle
- Static Content
- Request Filtering
- Windows Authentication (if required)
- URL Rewrite Module (if used)

Verify:

`http://localhost`

returns the IIS default page.

6. Database Requirements

SQL Server

- SQL Server Express 2022 installed
- TCP/IP Protocol enabled
- SQL Server Browser service enabled (if required)
- SQL Authentication enabled (if application uses SQL login)

Database Account

Item	Value
Login Name	AppUser
Database Role	db_owner
Authentication	SQL Authentication

Example: `SQL CREATE LOGIN AppUser WITH PASSWORD='StrongPassword123!';`

7. Network Requirements

Source	Destination	Port
Client PC	Web Server	80 (HTTP)
Client PC	Web Server	443 (HTTPS)
Client PC	Local Install	8250 (HTTP)
Client PC	Local Install	8251 (HTTPS)
Web Server	SQL Server	1433
Admin PC	SQL Server	1434 (optional)

Ensure firewall rules allow the required ports.

8. Security Prerequisites

- Local Administrator access during installation
 - SSL Certificate available (for HTTPS)
 - Antivirus exclusions configured (if required)
 - Service account created (if application runs as Windows Service)
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9. Installation Files Required

File	Description
Application Package	Published .NET 6 application
Database Script	SQL creation scripts
Configuration File	appsettings.json
SSL Certificate	.pfx file (if HTTPS enabled)

10. Pre-Installation Checklist

Item	Status
Windows Server Installed	☐
IIS Installed	☐
.NET 6 Hosting Bundle Installed	☐
SQL Server Express 2022 Installed	☐
Database Account Created	☐
Firewall Configured	☐
SSL Certificate Installed	☐
Application Files Available	☐
Database Backup Completed	☐

This document is provided to the infrastructure/server team before deployment so they can prepare the environment and confirm all prerequisites are met before the software installation starts.