

## ۵- مشخصات فنی سیستم

| Web Application                                                                                               |                                                                             |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Web Application Framework                                                                                     | Microsoft ASP.NET MVC 5<br>.Net Framework 4.8                               |
| Mobile Application UI Framework (PWA)                                                                         | React                                                                       |
| Operation System                                                                                              | Microsoft Windows Server 2022/2025                                          |
| Programming languages                                                                                         | C#                                                                          |
| Relational Database Management System                                                                         | Microsoft SQL Server 2022/2025                                              |
| Software Development IDE for Application                                                                      | Visual Studio 2026                                                          |
| Source code management, Requirements management, Project management, Automated builds,                        | Azure DevOps                                                                |
| Testing and Release Management                                                                                | Mock, Automated Test                                                        |
| Framework for Managing Work                                                                                   | Agile Project Management Framework (Scrum)                                  |
| Web Server                                                                                                    | IIS                                                                         |
| Asynchronous Notifications to Client-Side Technology                                                          | Signal-R                                                                    |
| In-Memory Distributed Data Cache and Message Broker                                                           | Redis                                                                       |
| Analyze the Performance                                                                                       | (1) Built-in Monitoring<br>(2) Integrated with Windows Performance Counters |
| Log Management                                                                                                | Dealing with Large Volumes of Computer-Generated Log Messages Approach      |
| Distributed Application Data Transfer Technology                                                              | WCF, REST, SOAP                                                             |
| .NET Platform Reporting Component                                                                             | Stimul                                                                      |
| Strict Syntactical Superset to JavaScript (development of large applications and trans-compile to JavaScript) | TypeScript                                                                  |
| JavaScript Libraries & Client-Side Declarative Bindings                                                       | jQuery, Knockout (partial)                                                  |
| Web pages render on a Variety of Devices and Window or Screen Sizes                                           | Responsive Design                                                           |
| Microsoft Outlook and Word add-ins Integrations Built by Using Our Web-Based Platform                         | VSTO                                                                        |
| Web Application Security Standard                                                                             | OWASP                                                                       |
| Providing Security to the Web API and Plugins                                                                 | Token Based Authentication                                                  |
| Security Automate Checking Tools                                                                              | Acunetix, Wireshark, metasploit, nictio, nessus, nmap                       |
| Business Process Management Engine                                                                            | Open Source - Customized ProcessMaker                                       |
| Process Management Database                                                                                   | MySQL                                                                       |
| Process Management Web Server                                                                                 | APACHE                                                                      |
| Recommended Network Load Balancing (Scalability to Handle a Growing Amount of Work)                           | NGINX (Recommended)                                                         |
| Recommended Enterprise IT Management Software for Operations Management and Monitoring                        | ManageEngine (Recommended)                                                  |
| Mobile View                                                                                                   |                                                                             |
| Mobile Application Data Transfer Technology                                                                   | RESTful services                                                            |
| Software Development IDE                                                                                      | VScode                                                                      |
| Technology                                                                                                    | PWA (React)                                                                 |
| Security Authentication                                                                                       | Token Based Authentication                                                  |