



# Role Description

Role Description	.NET Developer
Document owner:	Chief Technology Officer
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Keep informed:	.NET Developer

## 1. Overview

The position involves designing, developing, and maintaining software for our products. The role is mainly involved in web application development using Microsoft ASP.NET Core. Knowledge of TCP/IP, UDP and sockets would be useful. A willingness to cross-train to Windows Desktop .NET application development would also be beneficial.

## 2. Duties and responsibilities

### 2.1. General

- Develop application and GUI software covering the full software life cycle. Capture customer/user requirements, then design, develop, test and maintain software, including the release process, version control of software releases, and bug management using DevOps.
- Work both as team member on larger software projects and manage own smaller software projects; plan, track and manage development tasks. Work to deadlines and adapt plans as necessary to meet project objectives. Work collaboratively with people inside and outside R&D department to successfully achieve outcomes and results.
- Have a good knowledge of the C# programming language and the objects within ASP.NET Core class libraries. Have a good knowledge of object-oriented programming and design including decomposition of a software project into objects and object re-use across projects.
- Install, use and maintain tools and technologies (e.g. development environments) needed for software development.
- Have a good knowledge of Web technologies such as HTML, CSS, JavaScript and jQuery.
- Create scalable Web applications using ASP.NET Core and Blazor.
- Have a good understanding of typical design patterns used in Web application development such as MVC, IoC and client/server.
- Have a good knowledge of RESTful API and the HTTP protocol.
- Have a good understanding of using AJAX techniques to improve application responsiveness.
- Configure and use Web services.
- Have a good knowledge of ADO.NET and relational databases such as SQL server or MySQL.
- Be able to architect and create microservices using ASP.NET Core.
- Write unit tests for code using xUnit, NUnit or MSTest.
- Have a good knowledge of troubleshooting, debugging and security (SSL certificates) for Web applications.
- Have a good knowledge of deploying Web applications to both Windows (IIS) and Linux (Apache) Web servers using reverse proxy (Kestrel) and/or Docker.
- Investigate ideas, suggestions and problems related to existing and new software products raised by Oxts staff, reps and customers, communicating and responding to ensure issues are resolved promptly and appropriately.

- Use company procedures, processes, and consistent styles. Adhere to coding standards when developing software. Maintain software traceability, update software documentation, use version control for all software and document changes.

### 3. Revision History

Revision	Changes
220601	Role description created