https://www.conductexam.com/careers/dot-net-developer-job

.NET WinForm Developer

Hiring organization
Conduct Exam Technologies LLP

Position
02

Employment Type
Full-time

Experience
0 – 3 Years

Education
BCA, B.sc.IT, MCA, M.Sc.IT, BE (CE & IT)

Job Location
RK House, 1 Ram Vihar Society, Near Backbone Medicity, B/H Twin Star, Nana Mava Chowk, 150 Feet Ring Road, 360002, Rajkot, Gujarat, India

Date Posted
October 16, 2026

Description

Conduct Exam Technologies LLP is a leading provider of comprehensive online and offline examination management solutions, secure assessment platforms, and remote proctoring technologies. We empower educational institutions, universities, certification bodies, and corporations to conduct fair, scalable, and seamless exams worldwide.

We are looking for a skilled and passionate **.NET WinForm Developer** to build, optimize, and maintain our high-performance desktop applications, secure browser clients, and offline examination utilities.

Responsibilities

- **Desktop Application Development:** Design, develop, and maintain robust, scalable, and secure desktop applications using **C# and Windows Forms (.NET Framework / .NET 6+ Modernization)**.
- **Secure Browser & Proctoring Integration:** Develop and enhance client-side secure exam browsers (Safe Exam Browsers) that prevent cheating, restrict system access, capture screen/webcam feeds, and handle local data encryption.
- **UI/UX Customization:** Create responsive, intuitive, and modern user interfaces within WinForms using custom controls, styling libraries, and multi-threading for smooth performance.
- **Performance & Stability:** Optimize memory management, resolve deadlocks, troubleshoot threading issues, and ensure crash-free execution during high-stakes live examinations.
- **System Integration:** Integrate desktop applications with RESTful APIs, WebSockets, local SQLite/SQL Server databases, and cloud backend services for real-time exam synchronization and submission.
- **Offline Mode Architecture:** Design and implement resilient offline exam modes allowing candidates to take exams locally with encrypted caching and auto-syncing upon internet reconnection.
- **Testing & Quality Assurance:** Write unit tests, conduct debugging sessions, perform profiling, and collaborate with QA teams to ensure zero-defect releases.

Requirements

- **Experience:** 3 to 6 years of professional software development experience with a strong focus on **C# and Windows Forms (WinForms)**.

- **Core .NET Knowledge:** Deep understanding of .NET Framework (4.5+) and familiarity with modern .NET (.NET Core / .NET 6/8 migration paths).
- **Desktop Architecture:** Solid grasp of object-oriented programming (OOP), MVVM/MVP design patterns, dependency injection, and multithreading (Task Parallel Library / async-await).
- **System & Windows APIs:** Experience working with Windows API, registry manipulation, Windows Services, inter-process communication (IPC), and process monitoring (essential for secure browser development).
- **Database Management:** Proficiency with SQL Server, SQLite, or local database storage and Entity Framework.
- **Networking & Security:** Understanding of HTTPS, SSL/TLS, secure data transmission, local encryption algorithms (AES/RSA), and token-based authentication (JWT).
- Experience in developing **Safe Exam Browsers (SEB)**, kiosk-mode applications, or lockdown browsers.
- Familiarity with web technologies (HTML5, JavaScript, WebView2 integration inside WinForms).
- Knowledge of automated testing tools and CI/CD pipelines (GitHub Actions, Azure DevOps, Jenkins).
- Experience with camera/microphone stream capturing and local video recording libraries.
- Strong analytical and problem-solving mindset, especially when debugging complex low-level OS interactions.
- Ability to work independently as well as collaboratively in a fast-paced product development environment.
- High attention to security, data privacy, and code quality.