

DOTNETSchool Training & Placement Program.

Quick Interview call & Quick Job selection

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Project - BlinkIT Store System (AI-Based)

Training Program & Placement Details

Training best for

- Fresher and experience
- Struggling and Searching job
- Career gap

Training & Internship's benefits

- Internship letter from **Edulogix Solutions Pvt. Ltd.**
- Training certificate from **DOTNETSchool**
- Removed fresher tag from your CV
- Maintain your career gap
- **Resume builder(Production Exp, Live project URL, Internship details, ATS Resume)**
- **10th Interview call per month from Top company**
- **15th Interview mail per month from Top company**

Live Project

- Live Project add in your CV to boost profile.
- Previous internship student developer AI CHAT MODEL(<https://learnyexam.com/>)

Training & Placement Cell

- Knowledge based Interview preparation
- DSA Coding preparation
- Technical Round preparation
- Practical round preparation
- **Naukri.com Profile setup**

Duration

- 75 lecture. Each lecture ~90min(3 - Months)
- Batch timing: 7:30PM to 10:30PM
- Daily batches
- Weekend batches

Fees

- Rs. 2,999/- (Training from **DOTNETSchool**)
- Rs. 3,871/- (Internship from **Edulogix Solutions Pvt. Ltd**)



.NET Core Course Curriculum

Module 1: Introduction to .NET Core

- What is .NET Core?
- .NET vs .NET Core vs .NET 5+
- Cross-platform advantages
- Architecture overview

Module 2: Environment Setup

- Install .NET SDK
- Visual Studio setup
- CLI basics
- Project structure

Module 3: C# Fundamentals

- Data types
- Control statements
- OOP concepts
- Exception handling

Module 4: ASP.NET Core Basics

- What is ASP.NET Core?
- Middleware
- Configuration
- Dependency Injection

Module 5: MVC Architecture

- Model-View-Controller
- Controllers & Actions
- Views (Razor)
- Routing

Module 6: Web API Development

- RESTful APIs
- GET, POST, PUT, DELETE

- Model Binding
- Validation

Module 7: Entity Framework Core

- DbContext
- Migrations
- LINQ Queries
- CRUD operations

Module 8: Authentication & Authorization

- Identity
- JWT Authentication
- Role-based access

Module 9: Logging & Exception Handling

- Built-in logging
- Serilog / NLog
- Global exception handling

Module 10: Caching & Performance

- In-memory caching
- Distributed caching
- Performance tuning

Module 11: Configuration & Secrets

- appsettings.json
- Environment variables
- Secret Manager

Module 12: Testing

- Unit testing

Module 13: Deployment

- IIS hosting
- Docker
- Azure deployment

Module 14: Advanced Topics

- Microservices
- SignalR
- Background services

DOTNETSCHOOL

ReactJS Course Curriculum

Module 1: Introduction to React

- What is ReactJS?
- Why use React?
- SPA concept
- React vs other frameworks
- Setting up environment
- Project structure overview

Module 2: JavaScript Refresher

- ES6+ features
- Arrow functions
- Destructuring
- Spread & Rest operators
- Promises & async/await

Module 3: JSX

- What is JSX?
- JSX syntax rules
- Embedding expressions
- JSX vs HTML

Module 4: Components

- Functional Components
- Class Components
- Component structure
- Reusability

Module 5: Props & State

- Props
- State
- useState Hook
- Lifting state up

Module 6: Event Handling

- Handling events
- Synthetic events
- Form events

Module 7: Conditional Rendering

- if/else
- Ternary operator
- Logical &&

Module 8: Lists & Keys

- map()
- Keys
- Dynamic rendering

Module 9: Forms

- Controlled components
- Uncontrolled components
- Validation

Module 10: Hooks

- useState
- useEffect
- useContext
- useRef
- Custom Hooks

Module 11: Routing

- React Router
- Navigation
- Dynamic routing

Module 12: API Integration

- Fetch / Axios
- GET / POST
- Error handling

Module 13: State Management

- Context API
- Redux
- Alternatives

Module 14: Deployment

- Build process
- Hosting
- Optimization

SQL Database Course Curriculum

Module 1: Introduction to Databases

- What is a Database?
- Types of Databases (RDBMS, NoSQL)
- Introduction to SQL
- Database vs DBMS

Module 2: Database Setup

- Install PostgreSQL / SQL Server
- Using pgAdmin / SSMS
- Creating databases
- Basic configuration

Module 3: SQL Basics

- SELECT statement
- WHERE clause
- ORDER BY
- LIMIT / TOP

Module 4: Data Manipulation (DML)

- INSERT
- UPDATE
- DELETE
- Bulk operations

Module 5: Filtering & Operators

- AND, OR, NOT
- IN, BETWEEN
- LIKE
- NULL handling

Module 6: Joins

- INNER JOIN
- LEFT JOIN
- RIGHT JOIN
- FULL JOIN

Module 7: Aggregations

- COUNT, SUM, AVG
- GROUP BY
- HAVING clause

Module 8: Subqueries

- Single row subquery
- Multi-row subquery
- Correlated subquery

Module 9: Indexes & Performance

- Creating indexes
- Clustered vs Non-clustered
- Query optimization basics

Module 10: Constraints

- Primary Key
- Foreign Key
- Unique
- Check constraint

Module 11: Views & Stored Procedures

- Creating views
- Stored procedures
- Functions

Module 12: Transactions

- ACID properties
- COMMIT / ROLLBACK
- Isolation levels

Module 13: Advanced SQL

- Window functions
- CTE (Common Table Expressions)
- Recursive queries

Module 14: Security

- User roles
- Permissions
- Data protection

Advanced BlinkIT Store System (AI-Based)

An intelligent store management system that uses **AI-powered BlinkIT scanning** to automate customer onboarding, billing, inventory tracking, and fraud detection. The system reduces manual work by extracting data from ID cards, invoices, and documents in real-time.

System Architecture

Frontend (React)

- ReactJS (Hooks + Context API / Redux)
- Material UI / Bootstrap
- Axios for API calls
- Form validation (Formik + Yup)

Backend (.NET Core)

- ASP.NETCore Web API
- Entity Framework Core (ORM)
- JWT Authentication
- Middleware for logging & exception handling

Database (SQL Server)

- Normalized relational database
- Stored procedures for performance

Hosting (Shared IIS)

- IIS Deployment
- FTP Publish
- Web.config optimization
- SSL Configuration

1. User Management Module Features:

- User Registration & Login
- Role-Based Access Control (Admin, Manager, Staff)
- JWT Authentication
- Password Encryption

Functionalities:

- Create/Update/Delete Users
 - Assign Roles & Permissions
 - Session Management
 - Audit Logs
-

2. BlinkIT AI Integration Module

Features:

- Scan Items and Extract Name, Price
- Address, ID Number OCR + AI-based
- validation

Functionalities:

- Real-time Camera Capture
 - Auto-fill customer details
 - Duplicate ID detection
 - API integration
-

3. Customer Management Module

Features:

- Auto-create customer from ID scan
- Customer profile management

Functionalities:

- Add/Edit/Delete Customer
 - Search & Filter Customers
 - View purchase history
 - KYC verification status
-

4.Inventory Management Module**Features:**

- Product stock tracking
- Low stock alerts

Functionalities:

- Add/Edit/Delete Products
 - Category & SKU management
 - Stock In / Stock Out
 - Barcode integration
-

5. Billing & Invoice Module**Features:**

- Smart billing with auto customer data
- Billing Calculation

Functionalities:

- Create Invoice
 - Print / Download PDF
 - Payment modes (Cash, UPI, Card)
 - Invoice history tracking
-

6. AI Analytics Module Features

Features:

Real-time dashboard

Functionalities:

Sales Reports Inventory Reports Customer Reports

Export to Excel / PDF

7. Reports & Dashboard Module

Features:

- Real-time dashboard

Functionalities:

- Sales Reports
 - Inventory Reports
 - Customer Reports
 - Export to Excel / PDF
-

8. Notification Module

Features:

- Email & SMS alerts

Functionalities:

- Low stock alerts
 - Payment reminders
-

9. Security Module Features:

Features:

- Data encryption
- Secure APIs

Functionalities:

- HTTPS enforcement
 - Role-based API access
 - Logging & monitoring
-

10.Settings Module Features:

- System configuration

Functionalities:

- GST settings
 - Company details
 - API keys (BlinkIT, SMS, Email)
 - Backup & restore
-

Database Tables (SQLServer) Core**Tables:**

- Users
- Roles
- Customers
- Products
- Categories
- InventoryTransactions
- Invoices
- Payments
- Logs

AI/BlinkIT Tables:

- ScannedDocuments
- ExtractedData
- VerificationStatus

API Structure (.NET Core) Auth

APIs:

- POST /api/auth/login
- POST /api/auth/register

Customer APIs:

- GET /api/customers
- POST /api/customers
- PUT /api/customers/{id}

Product APIs:

- GET /api/products
- POST /api/products

Invoice APIs:

- POST /api/invoice/create
- GET /api/invoice/{id}

BlinkID APIs:

- POST /api/blinkid/scan
- POST /api/blinkid/verify

Frontend Pages (React)

- Login / Register
- Dashboard
- Customer Management
- Product Management
- Billing Screen (POS UI)

- Reports & Analytics
 - Settings Page
-

Deployment (Shared IIS)

Steps:

1. Publish .NET Core API (Folder Publish)
2. Upload via FTP to IIS server
3. Configure Application Pool (.NET CLR)
4. Setup Web.config
5. Deploy React build in wwwroot
6. Enable SSL (HTTPS)

.....End.....