| Week 1 | Wednesday, March 27, 2019 | Wednesday, March 27, 2019 | A. Introduction to .NET Framework
1. History (max 30 mins) .NET Fundamentals (about framework)
2. Fundamentals OOP
B. Object-Oriented Programming
1. OOP Programming Paradigm. Entry point, types, Classes, inheritance, interfaces, access modifiers, functions, static, properties, CR Fundamentals
C. Development Environment Setup & Processes: Development flows |
|---|---|---|---|
| Saturday, March 30, 2019 | Saturday, March 30, 2019 | A. .NET Framework
1. History (max 30 mins) .NET Fundamentals (about framework)
2. Fundamentals OOP
B. Object-Oriented Programming
1. OOP Programming Paradigm. Entry point, types, Classes, inheritance, interfaces, access modifiers, functions, static, properties, CR Fundamentals
C. Development Environment Setup & Processes: Development flows |

| Week 2 | Wednesday, April 3, 2019 | Wednesday, April 3, 2019 | A. Relational Databases
1. Relational DB & DBMS
2. Data Modeling
3. Data Normalization
4. Intro to SQL |
|---|---|---|---|
| Saturday, April 6, 2019 | Saturday, April 6, 2019 | A. Introduction to web application development. HTTP, Verbs, request structure, high level architecture (server-client model)
B. MVC Architectural Pattern
1. Introduction to ASP.NET MVC
2. Controllers (Routing, Actions, Action Results, Action filters)
3. Razor Views (Razor Basics, Layout views, Html Helpers, Partial Views) |

| Week 3 | Wednesday, April 10, 2019 | Wednesday, April 10, 2019 | A. Working with data I
1. Entity Framework Basics
2. LINQ |
|---|---|---|---|
| Friday, April 12, 2019 | Friday, April 12, 2019 | A. Working with data II
1. Entity Framework advanced (Migrations, Validation annotations, custom annotations)
2. Scaffolding |

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<th>Week 4</th>
<th>Wednesday, April 17, 2019</th>
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<th>A. Project Development</th>
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| Friday, April 19, 2019 | Friday, April 19, 2019 | A. Web Development
1. HTML
2. CSS
3. Bootstrap |
| Sunday, April 21, 2019 | Sunday, April 21, 2019 | A. Web Development (2/2)
1. JavaScript
2. JQuery |

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<tr>
<th>Week 5</th>
<th>Wednesday, April 24, 2019</th>
<th>Wednesday, April 24, 2019</th>
<th>A. Identity &amp; Security</th>
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</table>
| Saturday, May 4, 2019 | Saturday, May 4, 2019 | A. Azure DevOps
B. Web API |
| C. Web App Development |

| Week 6 | Wednesday, May 8, 2019 | Wednesday, May 8, 2019 | A. Testing
1. Types (Unit; Functional; Integration)
2. Writing Unit Tests 3. Automation testing (Selenium)
4. Building Test Frameworks |
|---|---|---|---|
| Saturday, May 11, 2019 | Saturday, May 11, 2019 | A. Advanced Topics
1. SignalR
2. Architecture Considerations
3. Performance & Optimization
4. Delivery & Deployment to Azure |

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<tr>
<th>Week 7</th>
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<th>A. Project Development</th>
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<tbody>
<tr>
<td>A. Project Development</td>
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B. Project Presentations to Hiring Partners
3. Certificates & Closing |