



## 70-486: Developing ASP.NET MVC Web Applications

### Candidates should also have the following experience:

- Designing and developing web applications in an ASP.NET MVC model
- Planning and designing user interaction solutions based on business requirements
- Experience with the full software development life cycle of web applications
- Developing and deploying to multi-tier environments, including Azure
- Designing and developing asynchronous solutions

### Objective Domain

#### 1. Design the application architecture (15-20%)

- 1.1 Plan the application layers
- 1.2 Design and implement the Azure Web Apps lifecycle
- 1.3 Configure state management
- 1.4 Design a caching strategy
- 1.5 Design and implement a WebSocket strategy
- 1.6 Design a configuration management solution
- 1.7 Interact with the host environment
- 1.8 Compose an application by using the framework pipeline

#### 2. Design the build and deployment architecture (10-15%)

- 2.1 Design a browser artifact build strategy
- 2.2 Design a server build strategy
- 2.3 Design a publishing strategy
- 2.4 Implement an Azure deployment strategy
- 2.5 Implement a on-premises deployment strategy



### **3. Design the User Experience (15-20%)**

- 3.1 Create elements of the user interface for a web application
- 3.2 Design and implement UI behavior
- 3.3 Design the UI layout of an application
- 3.4 Plan a responsive UI layout
- 3.5 Plan mobile UI strategy

### **4. Develop the User Experience (15-20%)**

- 4.1 Plan for search engine optimization and accessibility
- 4.2 Plan and implement globalization and localization
- 4.3 Design and implement controllers and actions
- 4.4 Design and implement routes
- 4.5 Control application behavior by using extensibility points
- 4.6 Design and implement serialization and model binding

### **5. Troubleshoot and Debug Web Applications (20-25%)**

- 5.1 Prevent and troubleshoot runtime issues
- 5.2 Design an exception handling strategy
- 5.3 Test a web application
- 5.4 Debug an Azure application

### **6. Design and Implement Security (15-20%)**

- 6.1 Configure authentication
- 6.2 Configure and apply authorization
- 6.3 Design and implement claims-based authentication
- 6.4 Manage data integrity
- 6.5 Implement a secure site