

# WebApi Handson 5 Question and Answers

## 1. CORS Enablement for Web API

- **CORS** allows frontend apps (like React) to call APIs hosted on a different origin.

- To enable:

- Install `Microsoft.AspNetCore.Cors` (if needed).
- Add in `Program.cs`:

```
builder.Services.AddCors(options =>
    options.AddPolicy("AllowLocalhost",
        b =>
            b.WithOrigins("http://localhost:3000").AllowAnyMethod().AllowAnyHeader
                ());
```

- Add to middleware:

```
app.UseCors("AllowLocalhost");
```

## 2. Web API Security with JWT

- Use JWT tokens to secure APIs.

- Add in [Program.cs](#):

```
builder.Services.AddAuthentication(...).AddJwtBearer(...);
app.UseAuthentication();
app.UseAuthorization();
```

- Add `[Authorize]` to secure endpoints, `[AllowAnonymous]` to token generation (`AuthController`).

- Add roles in token using claims:

```
new Claim(ClaimTypes.Role, "Admin")
```

- Use `[Authorize(Roles = "Admin")]` for role-based access.