**Backlog Items**

**1. User Authentication and Authorization**

| **ID** | **User Story** | **Size** | **Priority** |
| --- | --- | --- | --- |
| US-01 | As a **user**, I want to **log in** using my credentials so that I can access the system. | 3 | High |
| US-02 | As a **user**, I want to **log out** so that I can securely end my session. | 1 | High |
| US-03 | As an **Admin**, I want to **manage user roles** so that I can assign appropriate permissions. | 5 | High |
| US-04 | As a **user**, I want to **receive a JWT token** after logging in so that I can access protected endpoints. | 3 | High |

**2. Admin Functionality**

| **ID** | **User Story** | **Size** | **Priority** |
| --- | --- | --- | --- |
| US-05 | As an **Admin**, I want to **create user accounts** (Trainee, Trainer) so that I can manage users. | 5 | High |
| US-06 | As an **Admin**, I want to **update user accounts** so that I can modify user details. | 3 | Medium |
| US-07 | As an **Admin**, I want to **delete user accounts** so that I can remove inactive users. | 2 | Medium |
| US-08 | As an **Admin**, I want to **assign roles to users** so that I can control access. | 3 | High |

**3. Trainee Functionality**

| **ID** | **User Story** | **Size** | **Priority** |
| --- | --- | --- | --- |
| US-09 | As a **Trainee**, I want to **browse available courses** so that I can choose what to enroll in. | 3 | High |
| US-10 | As a **Trainee**, I want to **register for a course** so that I can attend classes. | 5 | High |
| US-11 | As a **Trainee**, I want to **book a class** so that I can reserve my spot. | 5 | High |
| US-12 | As a **Trainee**, I want to **make a payment** for a booked class so that I can confirm my enrollment. | 8 | High |
| US-13 | As a **Trainee**, I want to **view my course schedule** so that I can plan my time. | 3 | Medium |
| US-14 | As a **Trainee**, I want to **view my payment history** so that I can track my transactions. | 3 | Low |

**4. Trainer Functionality**

| **ID** | **User Story** | **Size** | **Priority** |
| --- | --- | --- | --- |
| US-15 | As a **Trainer**, I want to **schedule a new class** so that I can offer training sessions. | 5 | High |
| US-16 | As a **Trainer**, I want to **open or close a class** so that I can control enrollment. | 3 | High |
| US-17 | As a **Trainer**, I want to **view enrolled trainees** for my classes so that I can manage attendance. | 3 | Medium |
| US-18 | As a **Trainer**, I want to **update class details** (e.g., time, location) so that I can make changes as needed. | 3 | Medium |

**5. Technical Requirements**

| **ID** | **User Story** | **Size** | **Priority** |
| --- | --- | --- | --- |
| US-19 | As a **developer**, I want to **set up the ASP.NET Core 8 Web API** so that I can build the backend. | 5 | High |
| US-20 | As a **developer**, I want to **create the SQLite database schema** so that I can store application data. | 8 | High |
| US-21 | As a **developer**, I want to **integrate the Identity Framework** so that I can handle user authentication. | 5 | High |
| US-22 | As a **developer**, I want to **implement JWT for authorization** so that I can enforce role-based access control. | 5 | High |
| US-23 | As a **developer**, I want to **build the frontend using JavaScript** so that I can provide a lightweight user interface. | 8 | High |
| US-24 | As a **developer**, I want to **test the application** so that I can ensure it works as expected. | 5 | High |