Athlete Tracking Software Development Project

Ömer Çevrük 210706045

Project Overview:

The Athlete Tracking Software is designed to provide a solution for sports schools to manage their operations. The system has four primary modules:

- 1. Student Tracking Module
- 2. Payment Module
- 3. Athlete Development Tracking Module
- 4. Reporting Module

2. Research and Planning:

Technology Stack:

- Frontend: Razor Pages, HTML5, CSS3, JavaScript
- Backend: ASP.NET Core MVC
- Database: PostgreSQL
- Additional Tools: Neovim, omnisharp(lsp)

Justification for technology choices:

ASP.NET Core MVC:

- Provides a clean separation of concerns through the Model-View-Controller pattern
- Excellent integration with Razor Pages for creating dynamic web pages
- Cross-platform compatibility

PostgreSQL:

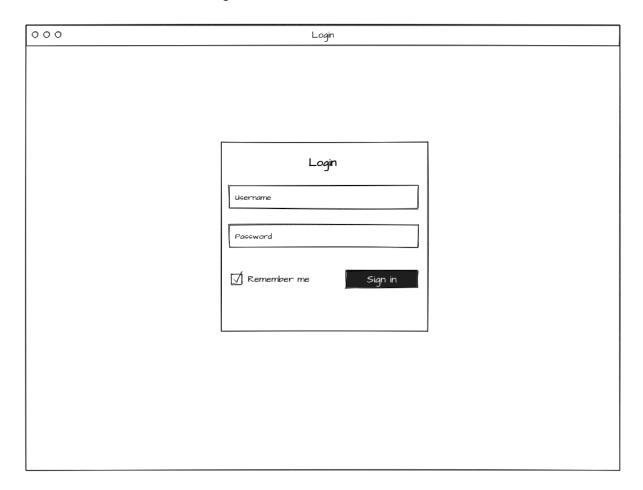
- Open-source and cost-effective(free as in cost and as in freedom)
- Excellent performance for complex queries
- Rich feature set including JSON support and full-text search
- Strong community support and extensive documentation
- Built-in support for geographical data and custom data types

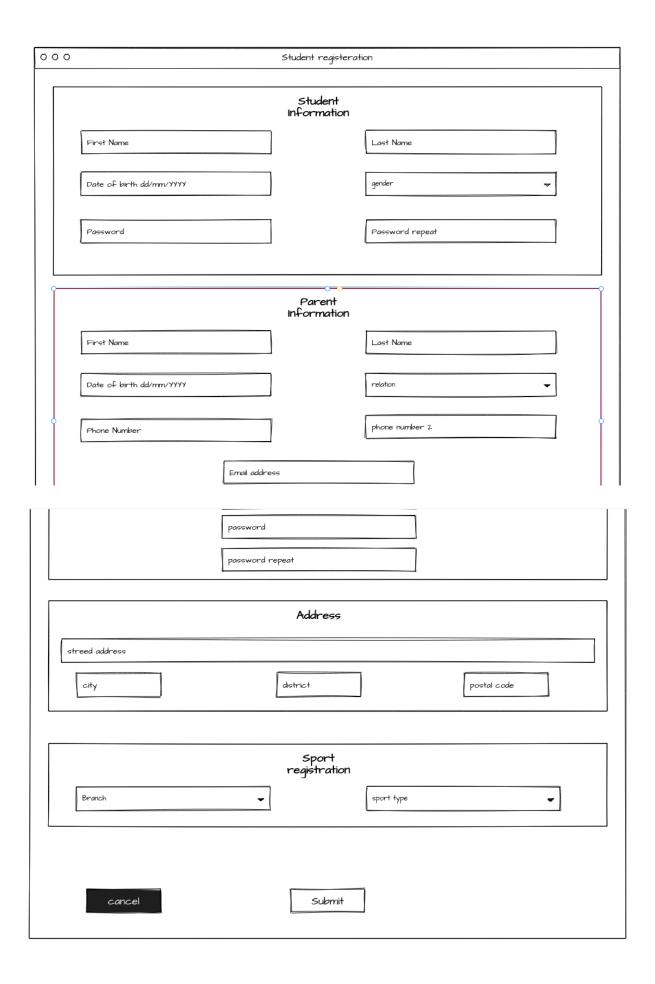
Razor Pages:

- Good for rapid development of CRUD operations
- Built-in support for client-side validation

Wireframes:

I created basic wireframes using excalidraw.





000	instructor register	
	personal Information	
First Name	Last Name	
Email	Phone number	
Password	Confirm password	
professional Information		
specialization	hire date dd/mm/yyyy	
	C.L. et al.	
Submit		

Athlete managment (this week) (this month) (this year)	<username></username>
Total students +%11	
Revenue TL 1800 +%11	
13 Active instructor +1 this week	
quick actions Add student crea	te session
Add instructor View re	eports

Dashboard ₩) Child 1 Swimming training Next session 17:00-18:00 18.000 TL Next payment December 23 17.30pm Attendance this month 3 missing Last comment Ali mehmet Coach -Very cool keep going on Swimming coach Physicals Lenght: 120 cm Weight : 190 kg + 1 from last measuremtn +20 from last measurmeant Notifications Lorem ipsum doler sit amed

Payment	Child 1	
Payment details	Missing payment	
Total amount 12.000 TL	23/9/2002	
Paid amount 6.000TL	3.000 tl	
remaning amount 6.000TL		
Payment plan details		
Number of installments 4	Plan beginning 9/12/2002	
Monthy payment amount 3.000TL	Payment day 23th of each month	
Make payment		
Payment amount		
Payment Method		
Due date		
	Confirm payment	

Payment

Customer 1

↓)

Missing payment

Total amount 12.000 TL

Payment details

23/9/2002

Paid amount 6.000TL

3.000 tl

remaning amount 6.000TL

Payment plan details

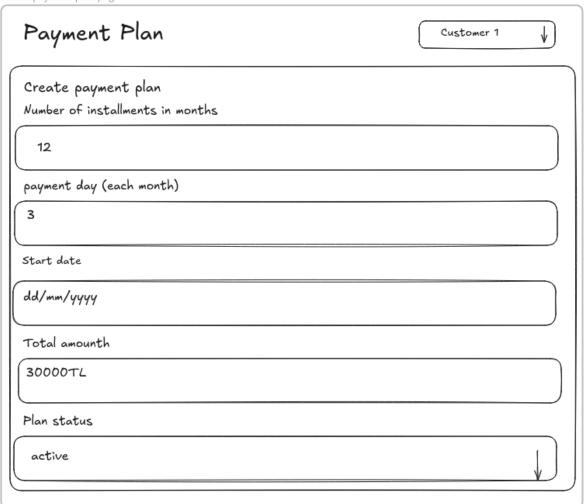
Number of installments 4

Plan beginning 9/12/2002

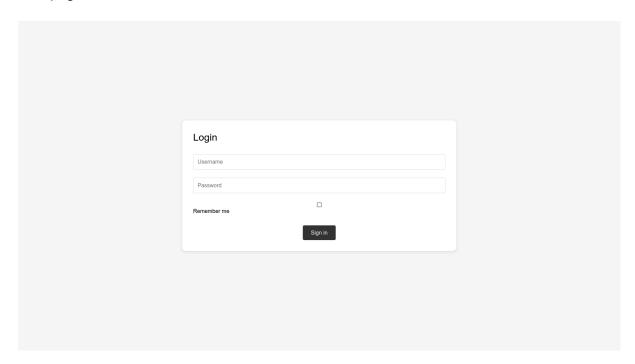
Monthy payment amount 3.000TL Paym

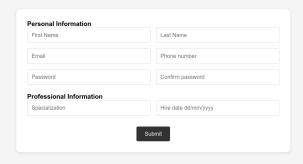
Payment day 23th of each month

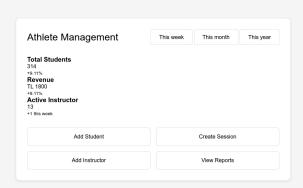
Parent payment plan page

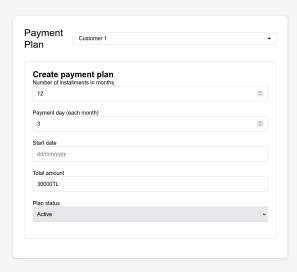


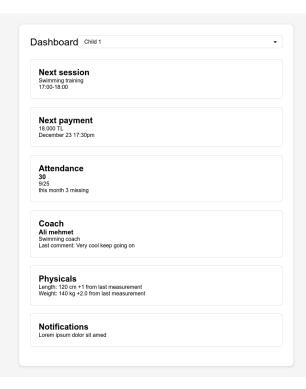
Html pages:

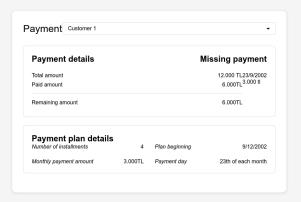


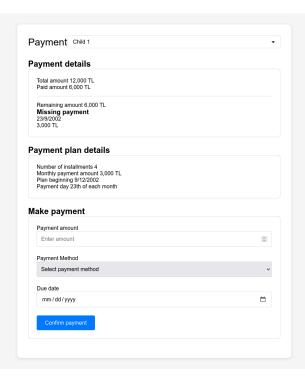


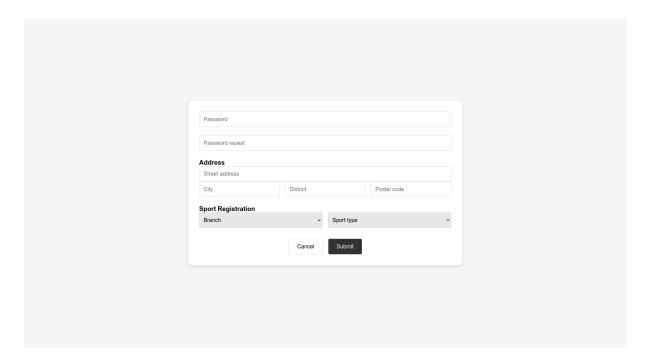


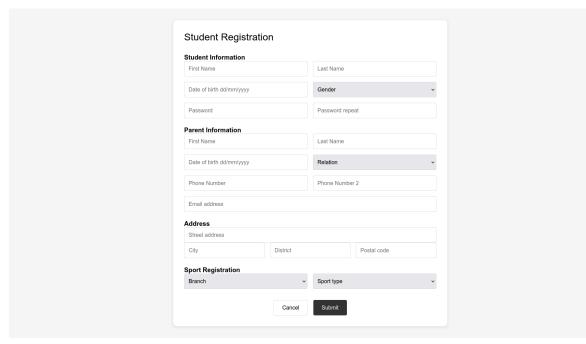


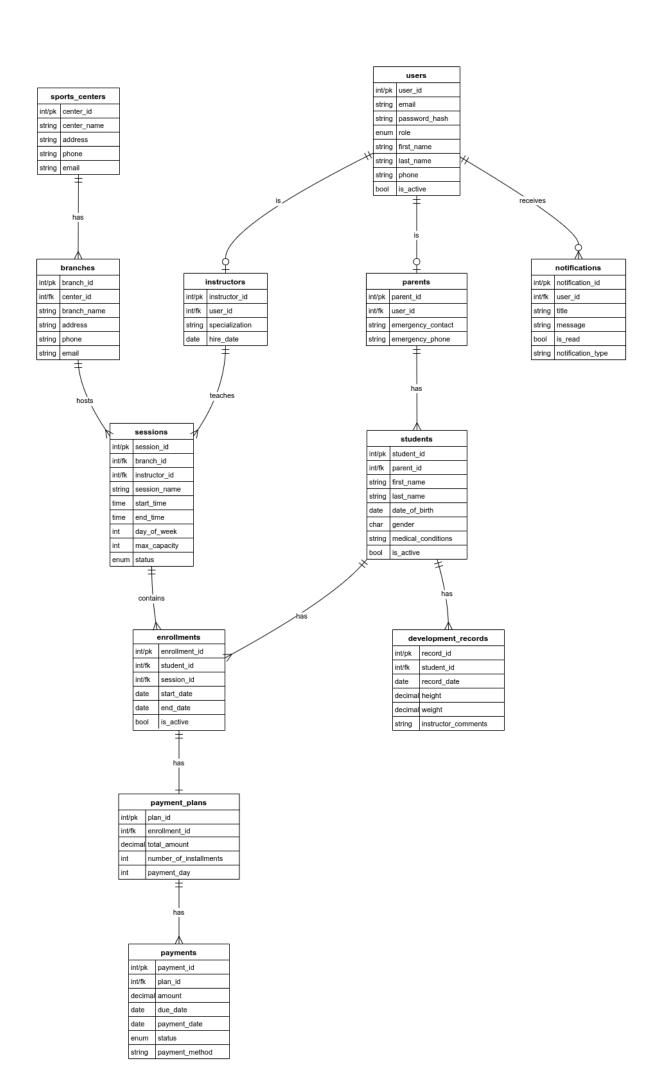












High level diagram of the system:

