Project ID- P8; **Project Name - Health & Fitness Tracker Project Description:** Users can log workouts, track calories, and get fitness insights. **Key Concepts Covered:** React, Redux, REST API, Charts, Authentication Capstone project directory structure /FullStackApp — /client (React Frontend) public / ----/src ----/components – /pages /store (Redux Store) /services (API Calls) — App.js — index.js — package.json — /Controllers — /Models

— /Data (Database Context)

/Middleware
│
Program.cs
FullStackApp.sln
1
— /database
— setup.sql (DB Schema and Seed Data)
migrations/
README.md
1
README.md
gitignore
— docker-compose.yml (Optional)

Project	User Story	Description	Acceptance Criteria

P8 - Health & Fitness Tracker	Log Workout	Log workout details.	Store workout data in MS SQL.
	Track Calories	Log daily intake.	Store calorie data, show totals.
	View Fitness Trends	Analyze fitness data.	Display workout and calorie trends.

Evaluation Rubric for Project Assessment (85 Marks)

Criteria	Excellent (Full Marks)	Needs Improvement (Partial Marks)	Poor (No Marks)	
React Frontend (60 Marks) (Each criterion is 10 marks, 6 sub-criteria)				
UI/UX Design	Clean, responsive, and user- friendly interface	Some UI issues, minor responsiveness problems	Poor UI, broken responsiveness	
Component Reusability	Proper use of modular and reusable components	Some redundant components, minimal reusability	No reusable components, messy code	
State Management	Efficient use of React hooks, Context API, or Redux	Some issues in state handling, unnecessary rerenders	Poor state management, frequent bugs	
API Integration	API calls handled efficiently with error handling	Basic API calls but lacks proper error handling	API calls fail, no proper state update	

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Routing & Navigation	Proper use of React Router, seamless navigation	Some broken links or inefficient routing	No routing implemented or broken links		
Performance Optimization	Uses memoization, lazy loading, and proper key handling	Some performance lags, missing optimizations	Poor performance, slow load times		
	.NET Cor	re Web API (15 Marks)			
		n is 5 marks, 3 sub-criteria)			
API Design & Structure	RESTful API with proper naming conventions, modular structure	Some inconsistent API routes, minor structural issues	Poorly designed API, inconsistent endpoints		
Business Logic & Validation	Properly implemented business logic with input validation	Some missing validation checks, minor logical flaws	Major logical errors, missing validation		
Security & Error Handling	Implements authentication, authorization, and error handling	Some security flaws, minimal error handling	No security, major vulnerabilities		
	Database (10 Marks)				
(Each criterion is 5 marks, 2 sub-criteria)					
Schema Design	Well-structured, normalized database schema	Some redundant data, minor normalization issues	Poor schema design, redundant data		
Query Performance	Optimized queries, proper indexing	Some unoptimized queries, minor performance issues	Poor query optimization, slow execution		

VIVA Evaluation Rubric (15 Marks)

Criteria	Excellent (Full Marks)	Needs Improvement (Partial Marks)	Poor (No Marks)
Documentation, Viva, Presentation, Report (15Marks)			
Project Report & Documentation	Well-written documentation with clear API references	Incomplete documentation, missing some details	No documentation, poorly written
Viva & Presentation	Clear understanding of project, good presentation skills	Some difficulty explaining concepts	Poor explanation, lacks clarity