

Group: SE1

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Fitness Management Web Application

Project Documentation

1. Project Overview

The Fitness Management Web Application is a full-stack web-based platform designed to help users explore fitness-related services such as gyms, workouts, trainers, and subscription plans. Visitors can freely browse all content, while registered users can access advanced features such as adding items to favorites and subscribing to fitness plans.

2. Technologies Used

Frontend:

- HTML
- CSS
- JavaScript (Vanilla JS)

Backend:

- Node.js
- Express.js

Data Storage:

- File System (JSON Files)

3. User Roles

Visitor (Unauthenticated User):

- Browse fitness content
- View gyms, workouts, and trainers
- Cannot add favorites or subscribe

Registered User:

- Login / Logout

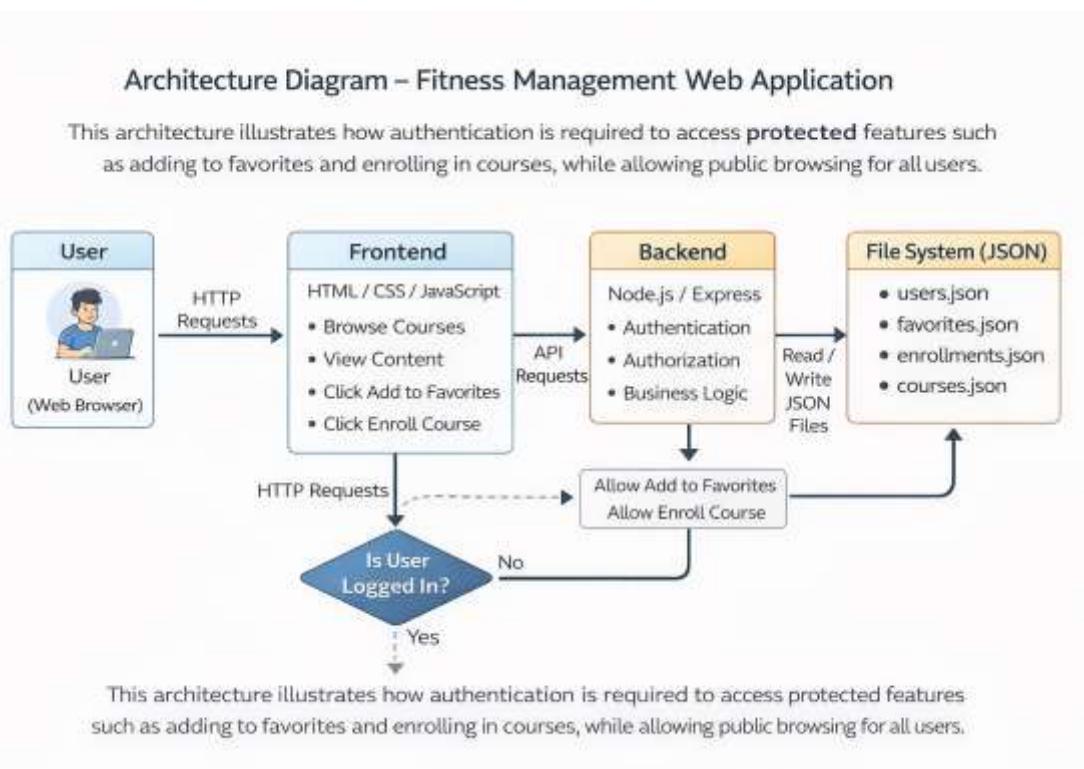
- Add items to favorites
- Subscribe to fitness plans
- Manage profile

4. Core Features

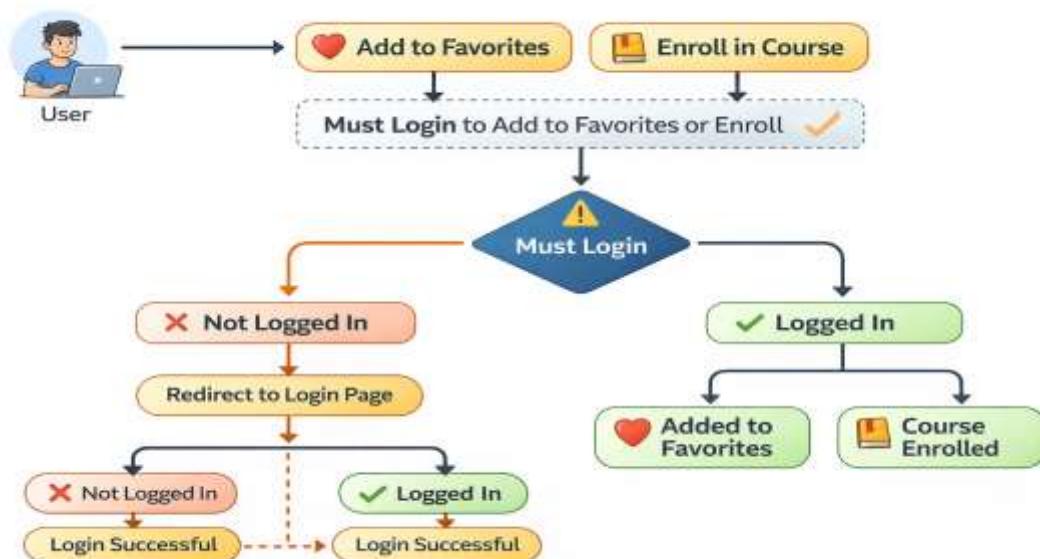
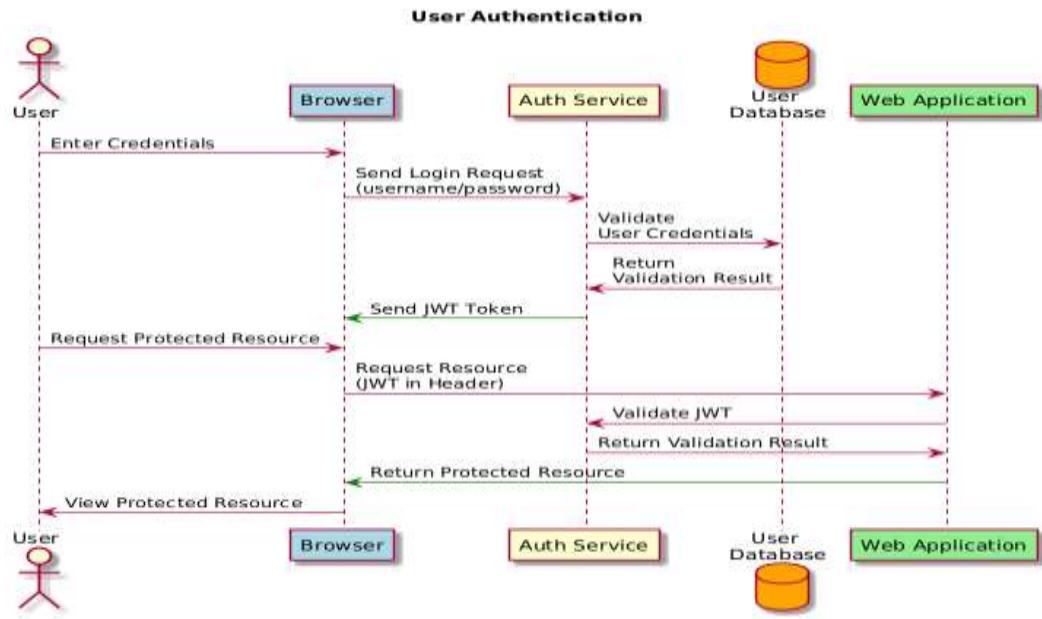
- User Authentication
- Browse Fitness Content
- Favorites System
- Subscription System
- Profile Management
- File-based Data Storage

5. Architecture Overview

The system follows a client-server architecture. The frontend communicates with a Node.js backend via HTTP requests. The backend handles business logic and stores data using JSON files in the file system.



6. Sequence Diagrams



7. Screenshots

Screenshots of the following pages should be included:

- Login & Register Page



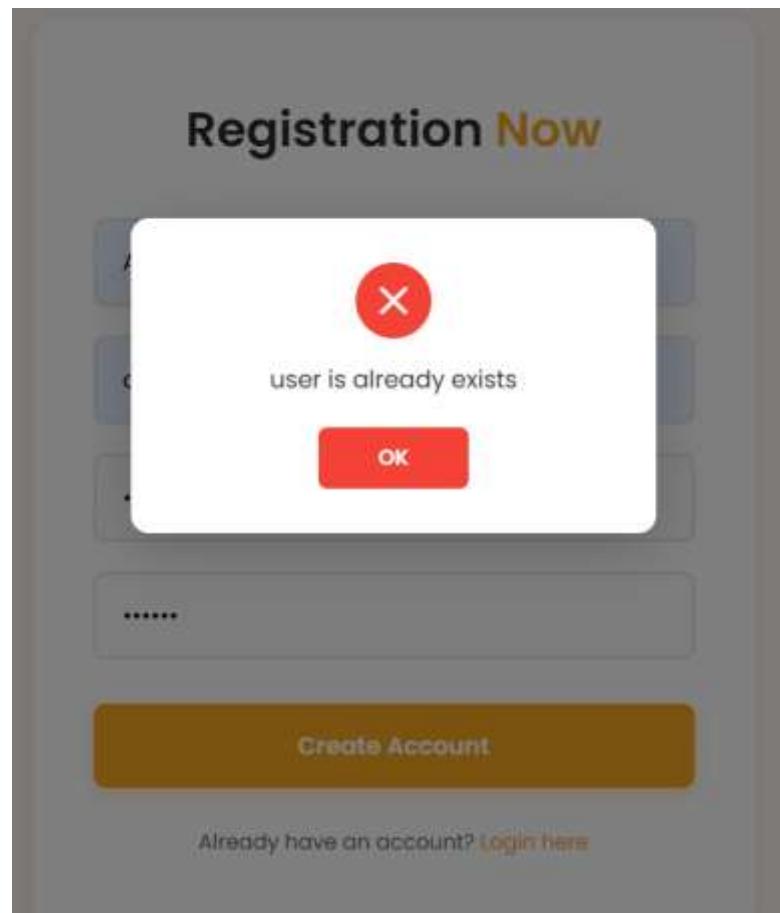
The screenshot displays two side-by-side forms: a "Login" form on the left and a "Registration Now" form on the right. Both forms are set against a light orange background.

Login Form (Left):

- Header: "Login"
- Sub-header: "Home // Login"
- Form fields:
 - Email:
 - Password:
- Buttons:
 - "Forgot Password?" link
 - "Login" button (orange)

Registration Form (Right):

- Header: "Registration Now"
- Form fields:
 - Name:
 - Email:
 - Password:
 - Confirm Password:
- Buttons:
 - "Create Account" button (orange)
- Text at bottom: "Already have an account? [Login here](#)"



- Browse Fitness Content

All Categories

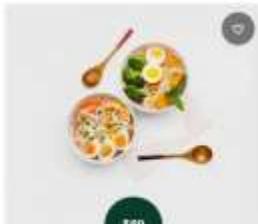
Search here



By Dr. Sarah Johnson

Complete Nutrition Guide

Oct 31, 2020 · 8h · 81 Lessons



By Mike Thompson

Strength Training Fundamentals

Nov 15, 2020 · 12h · 45 Lessons



By Alex Martinez

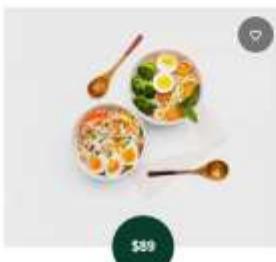
Cardio and Endurance Training

Dec 1, 2020 · 10h · 50 Lessons

-search

Fitness

Strength



By Mike Thompson

Strength Training Fundamentals

Nov 15, 2020 · 12h · 45 Lessons

- Favorites Page

Favourites

View all Favourites



My Favorite Courses



By Dr. Sarah Johnson
Complete Nutrition Guide

0h - 5h 15m



By Mike Thompson
Strength Training Fundamentals

11h - 18h 15m



By Alex Martinez
Cardio and Endurance Training

0h - 10h 15m

- Subscription Page



anas sameh
anas.sameh.10@gmail.com

My Courses



By Dr. Sarah Johnson
Complete Nutrition Guide

0h 15m - 5h

Start Now

- Profile Page

The screenshot shows a web application interface for a profile page. At the top, there is a navigation bar with the logo 'Nutras.' and links for 'Home', 'About Us', 'All Course', 'Contact', and 'Logout'. Below the navigation bar, the word 'Profile' is displayed prominently. A breadcrumb navigation 'Home > Profile' is visible. On the left side, there is a user profile card with a placeholder icon, the name 'anas sameh', and the email 'anas.sameh.76@gmail.com'. To the right of the profile card, there is a decorative banner featuring tropical leaves and flowers.

8. Summary

This project demonstrates a complete fitness management system using modern web technologies. It applies authentication, role-based access, and file-based data storage in a practical real-world scenario.