



Infoway Technologies CDAC Training Institute Pune

GYM MANAGEMENT SYSTEM

▶ **Presented By**

- ▶ Sabbu Laxmiprasanna
- ▶ Dhanashri Mallikarjun Nashte
- ▶ Shubhada Mali
- ▶ Bhumika Bare

INTRODUCTION

- ▶ Gyms are become the essential part of our lives, providing best exercise and bodybuilding facilities to our society.
- ▶ Therefore, at the management end there are some necessary steps to maintain the records of every individual including trainer, trainees, and staff But maintaining the records on paper is very difficult So, it is necessary to have a computerized system that manages all these issues.
- ▶ Thus working on the management system for Gym Industry are the basis of our project. We have developed an automated version of the manual system, named as Gymnasium Management System. This system also provides excellent security of data at to its user

EXISTING SYSTEM AND COMPARISON

Existing System

- ▶ Existing system is a static website so you have to use file system to save record.
- ▶ Time consuming system.
- ▶ No proper system to make announcements.
- ▶ Important information can be missed while writing on page
- ▶ Inefficient and slow search

Proposed System

- ▶ Site so New proposed system allow to user to save record is database.
- ▶ Fast and easy to use
- ▶ An easy way to make a announcements.
- ▶ Full fledge information system.
- ▶ Efficient and proper availability of data

Project Scope

- ▶ The Gym Management System project aims to streamline gym operations by automating member registration, class scheduling, trainer assignments.
- ▶ The system will feature a web-based frontend built with React and a backend powered by Spring Boot and MySQL.
- ▶ Key functionalities include member and trainer management, class scheduling, attendance tracking, and secure. The project will use RESTful APIs for communication between frontend and backend, with a focus on data security and user experience.
- ▶ The system is designed to improve efficiency, reduce manual work, and enhance the overall management of gym activities, providing a robust and user-friendly platform for both members and administrators.

Project Goal

- ▶ To remove the manual or paper work in the Fitness club.
- ▶ Provide a platform with interactive user interface for both customer and admin.
- ▶ Save the time of both admin and customer.
- ▶ Get online plans in effective manners.
- ▶ To save cost of each user.
- ▶ The one who cannot afford gym packages also get benefits by viewing different exercise, diet plan tutorials.
- ▶ User friendly.

Software Tools & Techniques

- ▶ **Tools:**

- ▶ BOOTSTRAP
- ▶ MYSQL DATABASE
- ▶ Spring Boot

- ▶ **TECHNIQUES:**

- ▶ HTML
- ▶ CSS
- ▶ JAVASCRIPT
- ▶ REACTJS
- ▶ JAVA

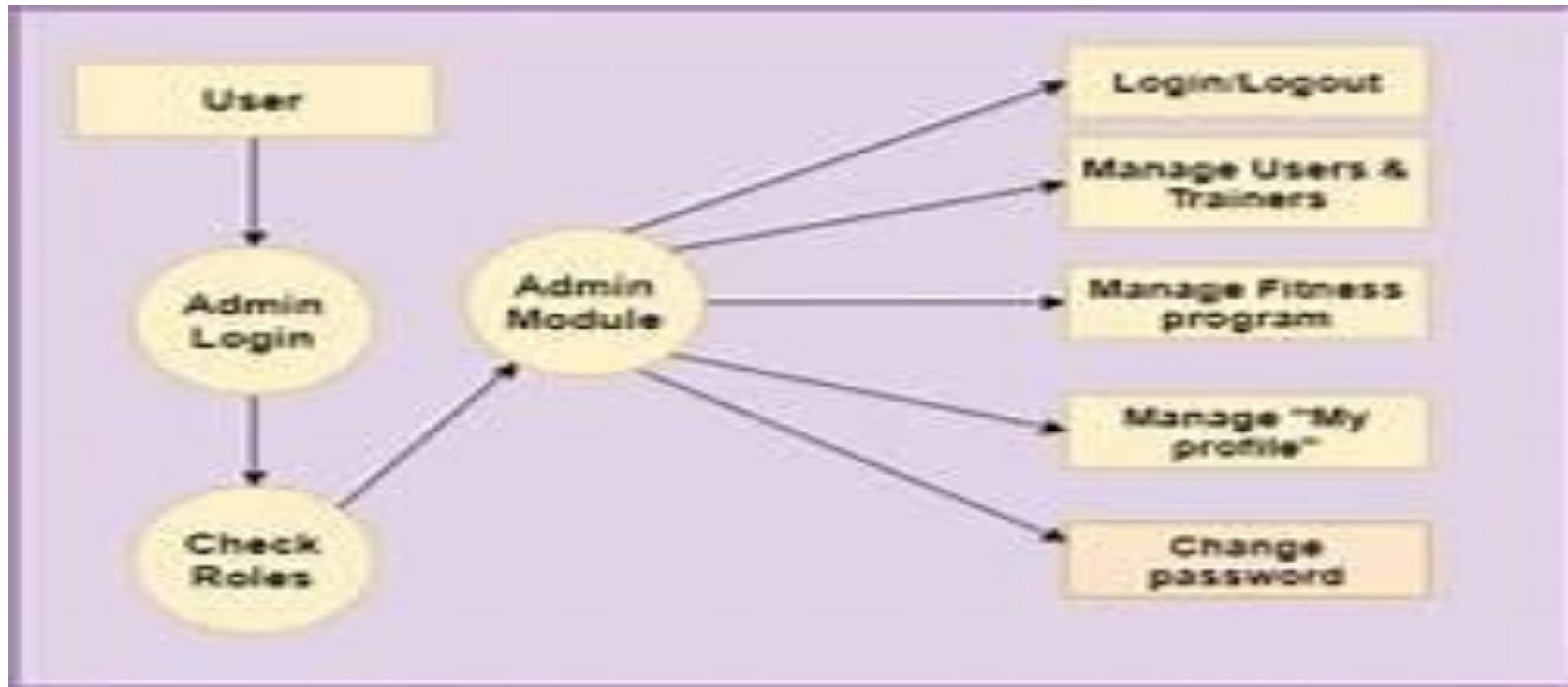
Fundamental requirement

1. **Login:** Secure user authentication.
2. **Manage Users:** Handling user details including customers and trainers.
3. **Manage Transactions:** Tracking payments, memberships, and other financial transactions.
4. **Manage Expenses:** Monitoring and recording expenses related to gym operations.
5. **Manage Machinery:** Keeping track of gym equipment and maintenance schedules.
6. **Create Reports:** Generating reports for better management and decision-making.

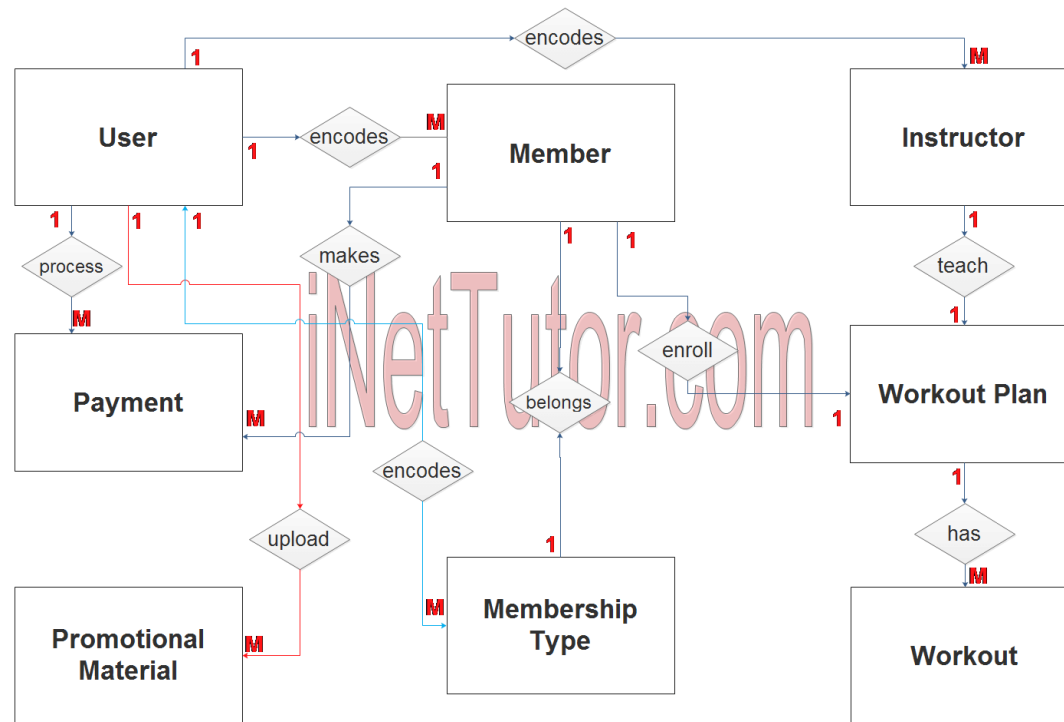
Non Functional requirement:

- ▶ Performance
- ▶ Reliability
- ▶ Security
- ▶ Scalability
- ▶ Easy To Use
- ▶ Accessibility
- ▶ Efficiency
- ▶ Maintainability

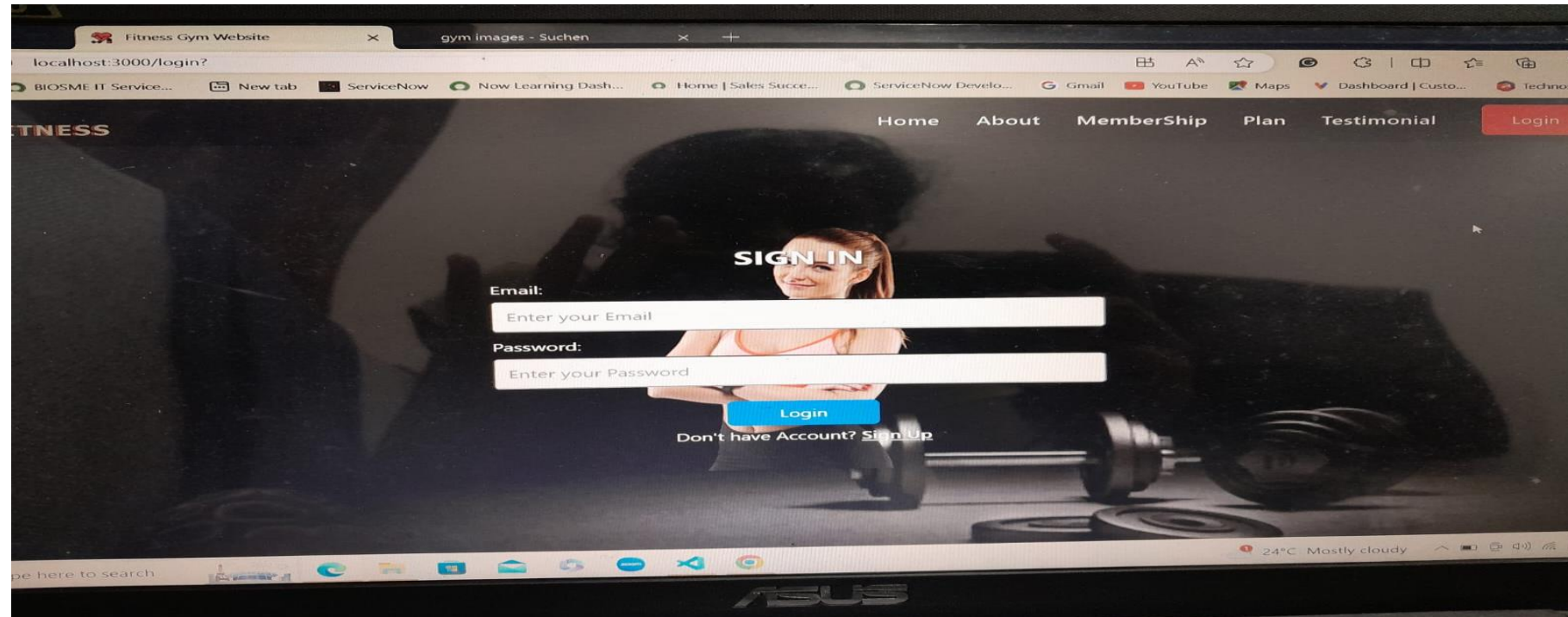
User Use Case Diagram



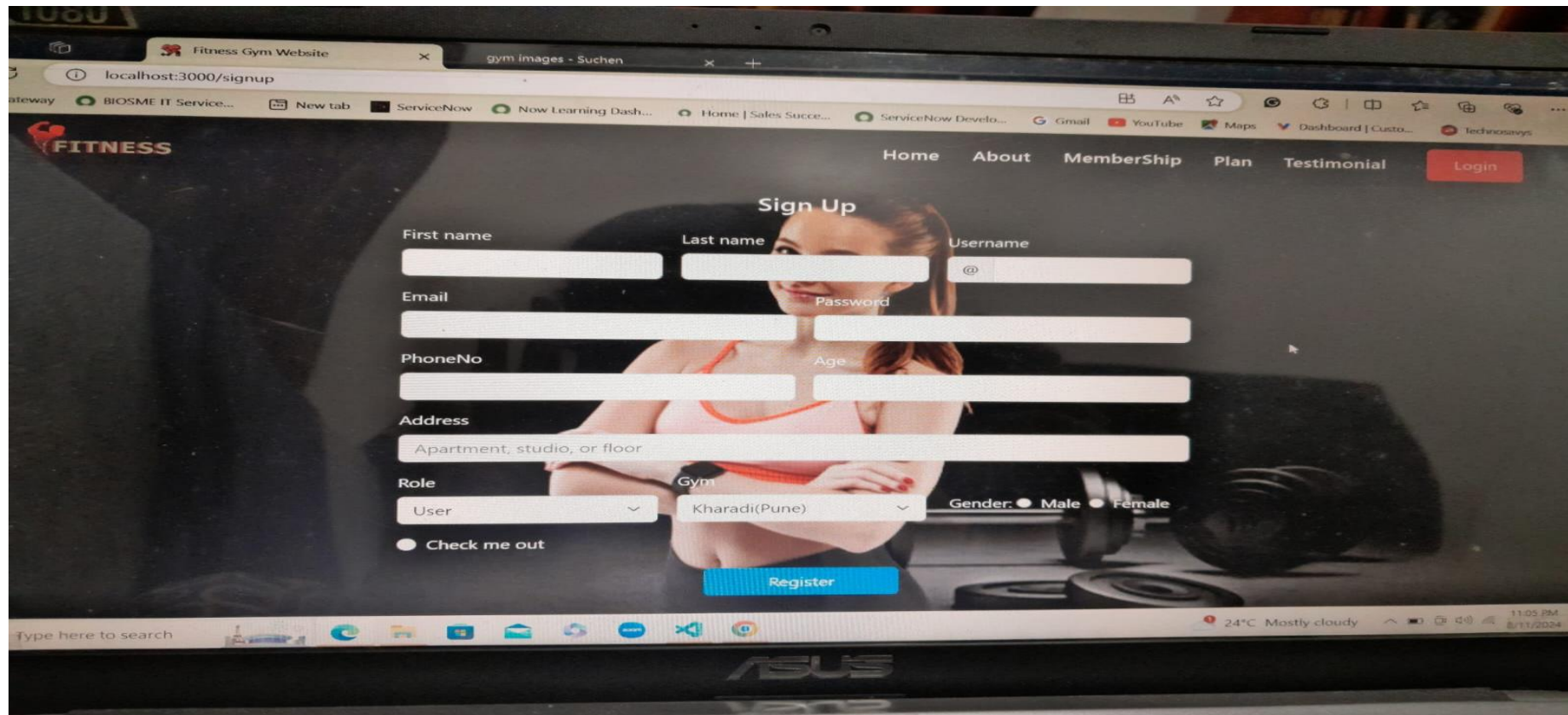
User and Membership Use case Diagram



Home & Sign In Page



Login & Register page



The screenshot displays a web browser window with the address bar showing 'localhost:3000/signup'. The browser's tab bar includes 'Fitness Gym Website' and 'gym images - Suchen'. The website's navigation menu contains 'Home', 'About', 'MemberShip', 'Plan', 'Testimonial', and a 'Login' button. The main content area is titled 'Sign Up' and features a form with the following fields: 'First name', 'Last name', 'Username' (with an '@' symbol), 'Email', 'Password', 'PhoneNo', 'Age', 'Address' (with a placeholder 'Apartment, studio, or floor'), 'Role' (a dropdown menu currently showing 'User'), 'Gym' (a dropdown menu currently showing 'Kharadi(Pune)'), and 'Gender' (radio buttons for 'Male' and 'Female'). A 'Check me out' radio button is also present. A blue 'Register' button is located at the bottom of the form. The browser's taskbar at the bottom shows various application icons, a search bar, and system information including '24°C Mostly cloudy' and the date '8/11/2024'.

FITNESS

Home About MemberShip Plan Testimonial Login

Sign Up

First name Last name Username

Email Password

PhoneNo Age

Address
Apartment, studio, or floor

Role Gym Gender: ☐ Male ☐ Female

☐ Check me out

Register

Conclusion

The “**GYM MANAGEMENT SYSTEM**” is successfully designed and developed to fulfill the requirements, as identified in the requirements analysis phase, such as the system is very much user-friendly, form-level validation and field-level validation are performing very efficiently.

Thank you!

