

Group 4

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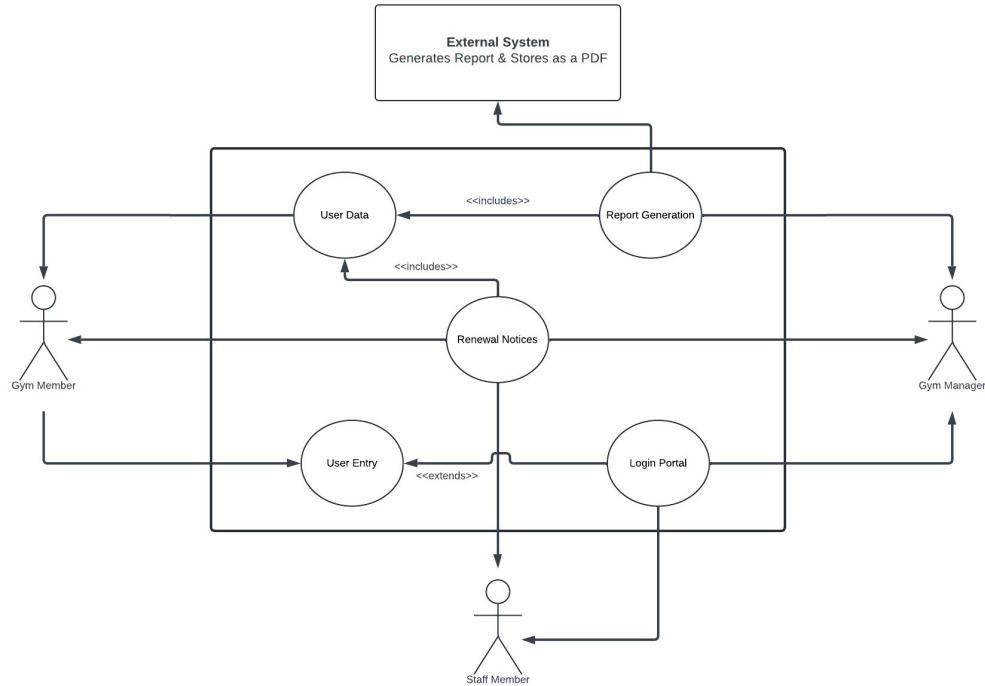
Project Overview

What is the project about?

SoftEng needs a new membership management system to streamline member registration, track visits, and handle renewals efficiently. The system will allow members to check in using their membership ID, notify them when their membership expires, and automate renewal notifications. Club managers will also be able to generate reports to monitor member activity, such as tracking members who haven't visited recently. This solution aims to enhance operational efficiency and improve member retention without handling payment processing.



Use Case Model: Primary Users





Use Case Model: Core Use Cases

1. Make Scanning users more efficient
2. Be able to track each member with their status (duration, tier, and renewals)
3. Report any users with non-existent or invalid memberships that are expired
4. Have an efficient way of tracking members that have lost their membership ID at home
(manually letting them in)



Functional Requirements

1. User Entry
2. User Data
3. Employee/Management Login
4. Renewal Notices
5. Report Generation



Functional Requirement: User Entry

Description: The club member will scan their ID, which will allow them access to enter into the facility

- 1.1 The system shall check the club member's UserID to determine if they have an active membership
- 1.2 If they have an active membership, they shall be allowed in
- 1.3 If they do not have an active membership, they shall be prompted to renew their membership
- 1.4 Records the visits for every club member



Functional Requirement: User Data

Description: The system will store all of the club member's data

2.1 The club member's data includes the member's name, membership length, email address, UserID, membership expiration date, and number of visits

2.2 The data stored about the club members shall be retained indefinitely, even after their membership has expired



Functional Requirement: Employee/Management Login

Description: The system will require employees and management to log in.

3.1 Staff and management shall have separate logins for the system

3.2 Only management can modify data, but any staff member can generate reports and read the data



Functional Requirement: Renewal Notices

Description: The system will prompt the employee to send a renewal notice to club members whose membership has expired

4.1 This notice shall prompt the club member to renew their membership of the same length and rate as the original



Functional Requirement: Report Generation

Description: Upon request, the system shall generate a report about the club members.

5.1 The report shall include a list of club members who have not used the club in the last 30 days, a searchable list of members, and a list of the most frequently visiting club members



Metrics to Track

Team Performance

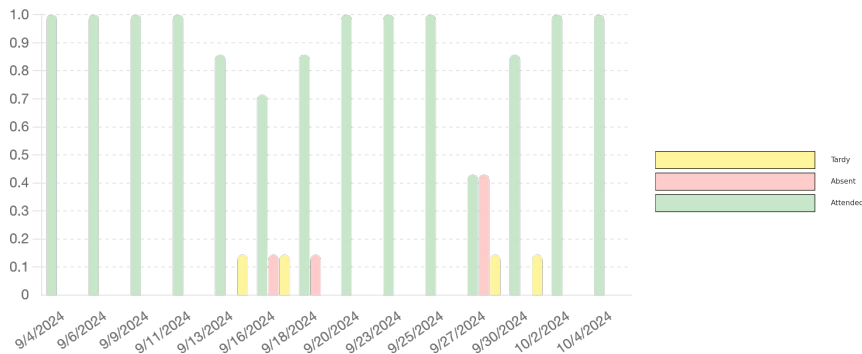
- Attendance
- Time Spent in Team Meetings

Atomic Requirements Progress

- Percentage of Atomic Requirements Modified
- Percentage of Atomic Requirements Completed

Quality Assurance

- Test Coverage
- Percent Defect Free
- Appraisal/Failure Ratio





Glossary

Club members: Gym members that hold membership and uses the gym as a customer

Management: Employees of the gym who are responsible for administration of the operations of a branch or multiple branches

Front desk staff: Staff members that do not directly manage the gym (privilege level below manager)

Active Membership: A membership whose expiration date has not passed

Staff: Any employee of the gym who works at or with the branch

Data: See explanation in Requirement 2.1

Renewal notice: A prompt to the person operating the system which tells them to message a member about renewing the membership

Visit: Each time a club member visits the gym by scanning into the system



Questions or Ideas?