System/Product Topic: Report Generation by Club Manager

Purpose

Allow the club manager to generate reports for member activity and other relevant information.

STEP 1 (Initial Concept):

The system should allow the club manager to generate reports anytime, such as identifying club members who have not used the club in the last 30 days, showing a searchable member list, and identifying the most frequent users.

- Quality: Low, multiple requirements are combined; lacks specificity and details.

STEP 2 (Subdivide):

The system shall allow the club manager to generate a report showing members who have not used the club in the last 30 days. Other reports such as a searchable member list and frequent user report will be addressed separately.

- Quality: Low, still lacks sufficient detail about report generation specifics.

STEP 3 (Correct Tone, More Complete):

The system shall allow the club manager to generate a report showing club members who have not used the club in the last 30 days. The report shall include the following information: member name, last login date, contact information, and membership status.

- Quality: Medium, provides details on report contents but does not specify other key factors like time constraints, user roles, or access permissions.

STEP 4 (Non-Functional Requirements Added; Further Details):

The system shall allow the club manager to generate a report showing club members who have not used the club in the last 30 days.

- The report shall include the following fields: member name, last login date, contact information, and membership status.

- The system shall allow staff to generate this report in less than 5 seconds for clubs with fewer than 1,000 members.

- The report shall be generated in PDF for easy export and printing.

- The system shall display an error message if no inactive members are found.

- If a member has not logged in for exactly 30 days, they will still be included in the report.

STEP 5 (Assigning Identification Number and Brief Name):

Requirement 1: Generate Inactive Member Report

Importance: Essential

The system shall allow the club manager to generate a report showing club members who have not used the club in the last 30 days.

1.1 The report shall include member name, last login date, contact information, and membership status.

1.2 The system shall allow staff to generate the report in PDF format.

1.3 The report generation time shall not exceed 5 seconds for clubs with fewer than 1,000 members.

1.4 If no members have been inactive for 30 days, the system shall display an error message stating, "No inactive members found.”

Other Reports:

Requirement 2: Generate Searchable Member List

Importance: High

The system shall allow staff to generate a searchable member list.

2.1 The list shall include member name, membership status, and contact information.

2.2 The search functionality shall allow staff to filter by name, membership type, and status (active/inactive).

Requirement 3: Generate Frequent Club Users Report

Importance: High

The system shall allow staff to generate a report listing the most frequent users of the club.

3.1 The system shall display the member’s name, number of visits, and total visit hours.

3.2 Staff can sort the list by number of visits or visit hours.

3.3 The report can be generated for a specific time period (e.g., last week, last month).

Glossary:

- Inactive Member: A club member who has not logged into the system in the past 30 consecutive days.

- Searchable Member List: A list of club members that can be searched using filters such as name, membership type, or active status.

- Most Frequent Users: Club members who have the highest number of visits to the club in a specified time frame.

Questions/Thoughts:

1. How should the system handle members who have paused their memberships but are still inactive?

2. Should the reports include time zone considerations when checking inactivity?

3. What character sets should be allowed for names or IDs in the reports?

4. Are there any additional quality attributes required for performance (e.g., report generation speed)?