

Details

ChatGPT (GPT-4)

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Chat Link: <https://chat.openai.com/share/0e68c176-8598-4575-a679-becb94a24614>

Context:

A good requirement should have the following characteristics:

- Correct: accurately describe the required functionality.
- Feasible: implementable in real life.
- Necessary: should be something that is required of the system.
- Prioritized: assign an implementation priority.
- Unambiguous: have just one interpretation.
- Verifiable: Devise tests to verify presence.

A good requirement specification should have the following characteristics:

- Complete: no requirements missing.
- Consistent: requirements don't conflict with themselves.
- Modifiable: Revise the SRS when necessary.
- Traceable: Link every requirement to its source.

The functional requirements should just be a list of bullet points about what the system should do. Please don't add use cases there.

ChatGPT response format

Guidelines for Writing Quality Requirements:

- Keep sentences and paragraphs short.
- Use active voice.
- Use terms consistently and define them in a glossary or data dictionary.
- To see if a requirement statement is sufficiently well defined, read it from the developer's perspective.
- Avoid long narrative paragraphs that contain multiple requirements
- Don't aggregate multiple requirements into a single statement.
- Write requirements at a consistent level of detail throughout the document.
- Avoid stating requirements redundantly in the SRS.

Answer the questions in a detailed and thorough manner.

Chat

A software requirements specification is a document containing specifications for a piece of software. It covers the following areas, as specified in bullets:

- Problem background
- Stakeholders / Users
- Functional Requirements
- Performance Requirements
- Design Constraints
- External Interfaces
- Security Requirements
- Use Cases for the application
- A glossary of terms

A use case highlights the flow of the application to accomplish a particular purpose. Its format is as follows:

- Use case
 1. Actor
 2. Purpose
 3. Event Flow
 4. Special/Exceptional requirements

Can you generate a software requirements specification document for a college club management portal? The provided information is as follows:

- It will provide a medium for club coordinators to get approval to organise events.
- The approval will be provided by a member of the Student Council, holding the position of the Student Council Clubs Coordinator.
- Users can get basic information about clubs and their members.
- The students at the college can register for the approved events.
- The admin will be a college staff from the Student Affairs department of the university.
- The admin will have the right to change the club coordinators.
- Users should be able to request for the formation of a new club.
- The process for approving the formation of new clubs will be a two-step approval process by first the Student Council Clubs Coordinator and then the admin.
- Requests for events get approved by the Student Council Clubs Coordinator.
- Students will login to the system using the college email addresses through the Google API.

Provide as detailed an output as possible covering all aspects of the software.

Software Requirements Specification for College Club Management Portal

Table of Contents

- Problem Background
 - Stakeholders / Users
 - Functional Requirements
 - Performance Requirements
 - Design Constraints
 - External Interfaces
 - Security Requirements
 - Use Cases
 - Glossary
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1. Problem Background

The college currently lacks an integrated system for managing student clubs, their events, and activities. The aim is to create a portal to streamline these processes and allow stakeholders to interact efficiently.

2. Stakeholders / Users

- Students
- Club Coordinators
- Student Council Clubs Coordinator
- Admin (Staff from Student Affairs)

3. Functional Requirements

- Club coordinators can submit event proposals for approval.
- Student Council Clubs Coordinator can approve or reject event proposals.
- Display basic information about clubs and members.
- Students can register for approved events.
- Admin can modify club coordinators.
- Users can submit requests to form new clubs.
- Two-step approval for new club formation.
- Event approvals by Student Council Clubs Coordinator.
- Students can log in using college email addresses via Google API.

4. Performance Requirements

- The system should support at least 500 users concurrently.
- Latency should be no more than 2 seconds for data retrieval.

5. Design Constraints

- The system will be web-based, accessible through modern web browsers.
- The system should be accessible on various devices including desktops and mobiles.

6. External Interfaces

- Google API for authentication
- Database for storing club, event, and user information

7. Security Requirements

- Secure HTTPS connections
- Role-based access controls
- Two-factor authentication for admins

8. Use Cases

Use Case 1: Submit Event Proposal

- Actor: Club Coordinator
- Purpose: To submit an event for approval.
- Event Flow:
 - Log in
 - Navigate to 'Submit Event' page
 - Fill in event details
 - Click 'Submit'
- Special Requirements: None

Use Case 2: Approve Event

- Actor: Student Council Clubs Coordinator
- Purpose: To approve/reject event proposals.
- Event Flow:
 - Log in
 - Navigate to 'Pending Events' page
 - Review event details
 - Click 'Approve' or 'Reject'
- Special Requirements: Must have role-based permission to approve.

Use Case 3: Register for Event

- Actor: Student

- Purpose: To register for an approved event.
- Event Flow:
 - Log in
 - Navigate to 'Available Events'
 - Select event
 - Click 'Register'
- Special Requirements: Event must be approved.

Use Case 4: Change Club Coordinator

- Actor: Admin
- Purpose: To change the club coordinator.
- Event Flow:
 - Log in
 - Navigate to 'Clubs' page
 - Select club
 - Change coordinator
- Special Requirements: Must be an authorized admin.

9. Glossary

- Club Coordinator: Person responsible for running the club.
- Student Council Clubs Coordinator: Member of the Student Council responsible for club-related activities.
- Admin: College staff from the Student Affairs department.

This document adheres to guidelines for writing quality requirements. It aims to provide a complete, consistent, and modifiable set of software requirements. All functional requirements are traceable to stakeholder needs.