

Requirement Analysis Document

HALL MANAGEMENT CENTER

TEAM : 12

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Introduction:

This document has the requirements of Hall Management System tool. The Hall Management System tool is used by IIT's Students and Staff etc. By using the Hall Management System tool, Hall Management System provides services to their Students, Staff, Wardens, Mess Manager etc.

Purpose:

The purpose of this document is to gather the requirements that are needed for implementing the Hall Management System Tool. It also focuses on various key features, the product, product vision and scope, product overview.

The main aim of the Hall Management System Tool is to provide online services to the Students, Staff, and also to the Wardens, Mess Managers of the Halls.

INTENDED AUDIENCE AND DOCUMENT OVERVIEW :

The intended audience will be the Students whom want to registers and make request regarding their problems and Mess Managers who manages the student due fees of mess, Warden use to take of care of the hostel problems etc.

Stakeholder:

Clients: HMC Chairman.

Users: Students, Mess Manager, Wardens, Clerk etc.

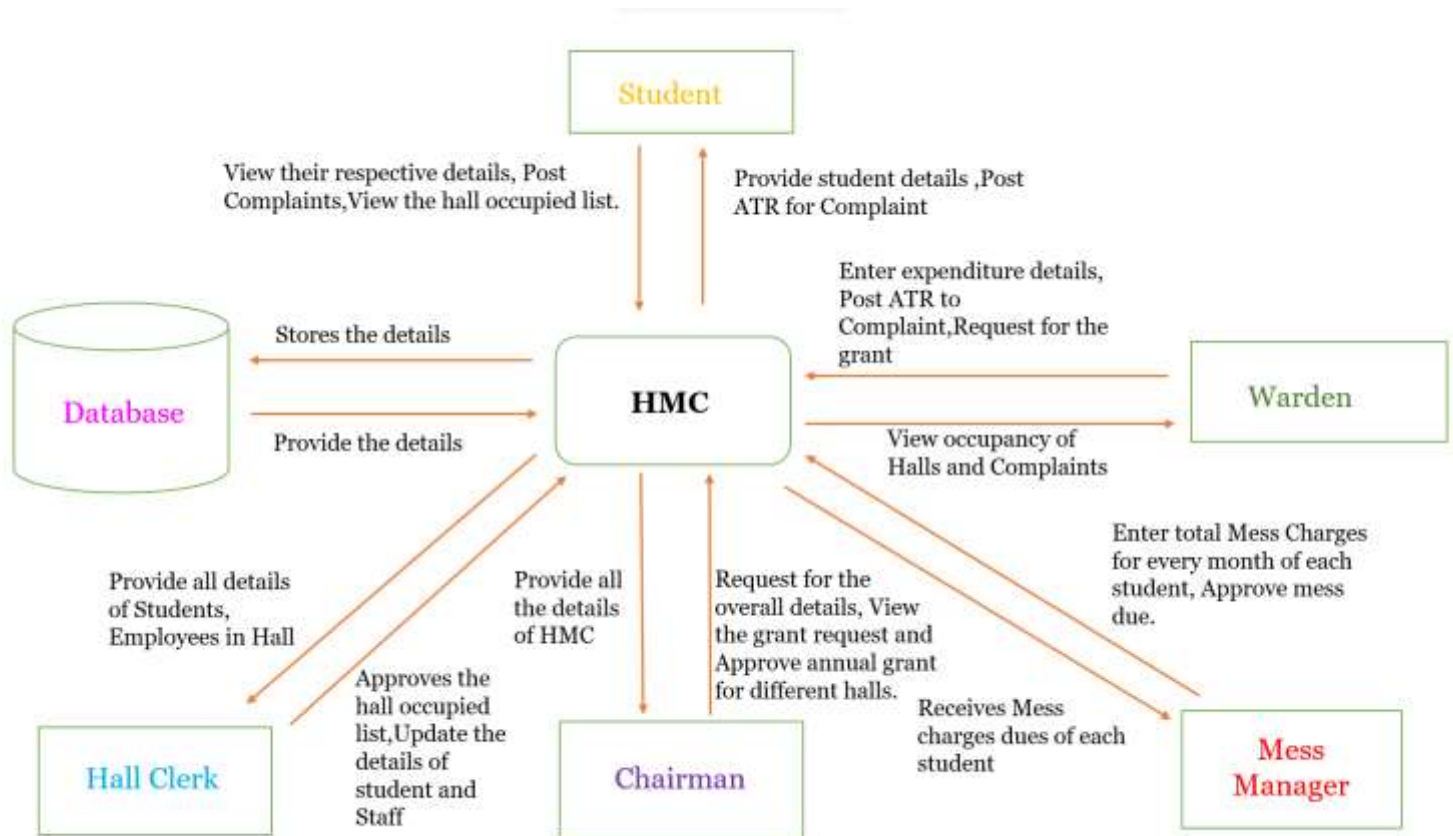
Product Vision:

The main vision of the HMS Tool is to provide online services for the users in a user friendly manner and efficient management of Hall problems through this tool.

Technologies Used:

HTML, CSS, PHP, JAVASCRIPT, XAMPP.

CONTEXT DIAGRAM OF HALL MANAGEMENT SYSTEM



REQUIRED FUNCTIONALITIES:

Hall Management System support different types of people who are linked with Halls.

- **Students:** Register in the Hall, raises complaints if necessary and pay fees for hall and Mess charges.
- **Warden:** Views raised complaints, and take actions. Check overall room occupancies, specifies expenditure details towards allocations.
- **Mess Manager:** Took total due fees details of each student and submit total charges of each student.
- **HMC Chairman:** Receives annual grant from the institute and distributes this granted amount among different halls.
- **Clerk:** Took attendance of Gardeners and Attendants and gives consolidated list of salaries and cheques for each employee.
- **Gardeners And Attendants:** Completes the works assigned by wardens and gets salaries based on day basis.
- **Staff:** Works according to the orders of higher authorities and gets salaries based on monthly basis and their details are updated according to any new entry or any satff leaves.

Non-Functional Requirements:

Reliability: User should get appropriate information about his complaint

Usability: This tool should has user friendly GUI. User can use it effectively.

Availability: Using should get information 24x7. User can access at any time with this tool

Accessibility: This tool support multi user accessing. Any user can access the system from different places to use the tool

Performance & Efficiency: User should have fast access to get the information from the help center. User should retrieve the information from help center database very quickly.

Security: As it is a web based application it should be more secure in order to save help centers confidential data from hackers.

Platform Compatibility: This tool has to work on any kind of operating system without modifying it.

Free of cost: User need not pay for the service provided.

Student:

Use-Case ID: UCHMCT-AR	Use Case Name: Admission Request
Description:	The Student request the HMC tool to register in the Hall.
Pre-conditions	1.Student must view the HMC website. 2.Student must be register to get room in Hall.
Success guarantee (post-conditions)	After registering into HMC website student get a unique nameID and password.
Main success scenario (or basic flow)	1.Student access HMC website. 2.The Student select register tap. 3.Student need to fill all the fields in the given form including personal infromation. 4.Student must submit all his/her details to register.
Extensions (or alternate flows)	1.If student didn't enter any field and submit. a.The system must prompt 'Empty Field'.
Frequency of occurrence	NOTE:Details must be valid. Very High

Raises complaints:

Use-Case ID: UCHMCT-RC	Use Case Name: Raises Complaints
Description:	Student can Raise Complaint after login with their id.
Pre-conditions	Student must have a unique id so that administration could find the student.
Success guarantee (post-conditions)	After login into the website Student have to click on complaint and then he/she can raise complaint and submit the details.
Frequency of use	High
Main success scenario (or basic flow)	1.Student have to login into the site and click on the complaint button. 2.After submitting your comlaint he/she can check the status.
Extensions (or alternate flows)	1.If the complaint field is empty it wouldn't to submit a.Alert box will shown that "Enter your Complaint"
Frequency of occurrence	High

Mess Manager:

Use-Case ID: UCHMCT-PD	Use Case Name: Pay Dues
Description:	1.Student have to pay dues through online/offline.
Pre-conditions	Student must login and enter into the Pay tab.
Success guarantee (post-conditions)	After entering into the Pay tab he/she has to enter all the required details otherwise it won't allow to submit your due. And this process must be atomic.

Frequency of use	Average
Main success scenario (or basic flow)	1.Student must login. 2.Entering into the Pay tab 3.Can check the currently available dues and also the status of dues. 4.Can pay dues online/offline.
Extensions (or alternate flows)	1.If the Pay method is not atomic it sent a message to your mobile number that “your due is processing”
Frequency of occurrence	Average

Mess Manager :-

Use-Case ID: UCHMCT-UPD	Use Case Name: Update Pending Dues
Description:	Mess manager has to update the dues within the duration of time.
Pre-conditions	1.Mess Manager used to and he/she has access to edit the Due databases. 2.Due field must not be empty.
Success guarantee (post-conditions)	1.Messs Manager has to login into the site. 2.In Pay Dues tab he/she can Edit and Update the Due Fees.

Frequency of use	High
Main success scenario (or basic flow)	1.After login into the site Mess Manager can check the pending dues and also he/she can update the dues. 2.After updating the Student dues notification will be sent to Students.

Extensions (or alternate flows)	1.Updated due fee can't be updated again within the duration time. a.Prompt message will be shown to Mess Manager.
Frequency of occurrence	High
Use-Case ID: UCHMCT-PD	Use Case Name: Print Dues
Description:	1.A printing tab will be availabe to the Mess Manager that he/she can print all the Pending/ Non-Pending Dues.
Pre-conditions	1.Mess Manager must login and select Printing Dues Tab.
Success guarantee (post-conditions)	1.Mess Manager Login into the website. 2.Selecting Printing Tap to print all the Available dues.
Frequency of use	High
Main success scenario (or basic flow)	1.After Login into the site 2.Selecting Priting Tabs.
Frequency of occurrence	High

Gardener and attenders:

Use-Case ID: UCHMCT-RT	Use Case Name: Requesting for tools
Description:	The Gardeners and attenders will register for tools for different works in the HMC
Pre-conditions	If tools are not provided for their work in in the HMC then they will register for tools

Success guarantee (post-conditions)	After registering for tools in HMC it will be sanctioned by the authorities and tools will supply to respected workers.
Main success scenario (or basic flow)	1) Registering for tools to the authorities for by the application letter. 2) Authorities will enquire that tools would be necessary or not for the workers.
Extensions (or alternate flows)	It may be sanctioned or not because of how the workers maintain tools.
Frequency of occurrence	Medium
Use-Case ID: UCHMCT-RL	Use Case Name: Requesting leaves
Description:	The Gardeners will register for leaves on their personal works in the HMC
Pre-conditions	If the gardener has any problem like personal work or illness.
Success guarantee (post-conditions)	If the reason is valid then the authority will approve the leave
Main success scenario (or basic flow)	1) Registering for leave in the HMC by a application 2) Approving the leave if the reason is valid
Extensions (or alternate flows)	1) If the reason is wrong it may be rejected by authorities 2) If the reason is not serious then they will give partial leave.
Frequency of occurrence	High

Warden:

Use-Case ID: UCHMCT-vrc	Use Case Name: view room occupancy
Description:	Able to view the overall room occupancy for the students to allot them.
Pre-conditions	To allot the room to new student in the hostel when there is room occupancy or shared room occupancy
Success guarantee (post-conditions)	If there is any occupancy available then the vacant room or bed is allotted to the student.
Frequency of use	Low
Main success scenario (or basic flow)	1)Check for room occupancyif there is any room is vacant. 2)If there is any vacant room allotted to the student
Extensions (or alternate flows)	1)if there is no vacant room then he should intimate the student when the room gets vacant
Frequency of occurrence	Low

Use-Case ID: UCHMCT-CSC	Use Case Name: Check Student Complaints
Description:	The complaints raised by the students should be view by the students ahd post the ACTION TAKEN REPORT(ART).
Pre-conditions	If there is any repair or inconvinience occurs with in the hall issues like lights not working,water problem,etc,.
Success guarantee (post-conditions)	If the complaint is resolved then he should post the ACTION TAKEN REPORT(ART)

Frequency of use	MEDIUM
Main success scenario (or basic flow)	if the repair is done by workers in the hall then he update the status of complaint and send ATR.
Extensions (or alternate flows)	If the repair is not done wait for untill it gets well soon if it is hard to repair.
Frequency of occurrence	Low
Use-Case ID: UCHMCT-PAE	Use Case Name: Print out Expenditures
Description:	Verifies all the accounts details any time and take print out of annual consolidated statement of account and sign it and submits to the institution administration.
Pre-conditions	The accounts should be collected and finalize the funds and calculate its annual fund.
Success guarantee (post-conditions)	All the accounts and statements after submitting it will be refer by the Institue Administration and enters the annual amount
	in the their annual financial records.
Frequency of use	Medium
Main success scenario (or basic flow)	Taking all the printed statements and after submitting to the institute Administration and administration refer it and enter into their records

Extensions (or alternate flows)	1)If there is no printed statements of accounts then the statement not signed and submitted to the institute Administration. 2)It leads to mis-conception for the administration for entering the annual fund given to the hostel in the record.
Frequency of occurrence	Very Less

Clerk :

Use-Case ID: UCHMCT-ELA&G	Use Case Name: Enters leaves of A&G
Description:	Enters the attendance of the attenders and gardeners in the register at the terminal at hall office.
Pre-conditions	The administration should know who and how much members are working as gardeners an attenders.Then he will take attendance of the workers.
Success guarantee (post-conditions)	Take the all the attendance eho present for working in the hall make count of it and submit it in hall office.
Frequency of use	High
Main success	Taking attendance of all the workers and take

scenario (or basic flow)	count how many are attended and not attended to work.Make it count of the day and submit register in the hall office.
Extensions (or alternate flows)	If attendance is not taken by clerk and there should not be proper details of worker who attended or not.and which worker is attended in the which date.

Frequency of occurrence	Very less
Use-Case ID: UCHMCT-PES	Use Case Name: Print Employees Salaries
Description:	At the end of every month a consolidated list of salary payable to each employee of the hall along with cheques for each employee is printed out
Pre-conditions	Gather all the list of employees and salary cheques who are working in the halls.
Success guarantee (post-conditions)	take print out of consolidated list of employees and cheques of the salary given to the employees who worked in the hall and submit in the hall office for further records.
Frequency of use	Monthly
Main success scenario (or basic flow)	At the end of every month a consolidated list of salary payable to each employee of the hall along with cheques for each employee is printed for knowing that how much salary had given to the how many employees.
Extensions (or alternate flows)	If there is no any printed list of employees and cheques,the employees will get different salaries and that will make regret to them.
Frequency of	Very Low

occurrence	
Use-Case ID: UCHMCT-USD	Use Case Name: Update Staff Details

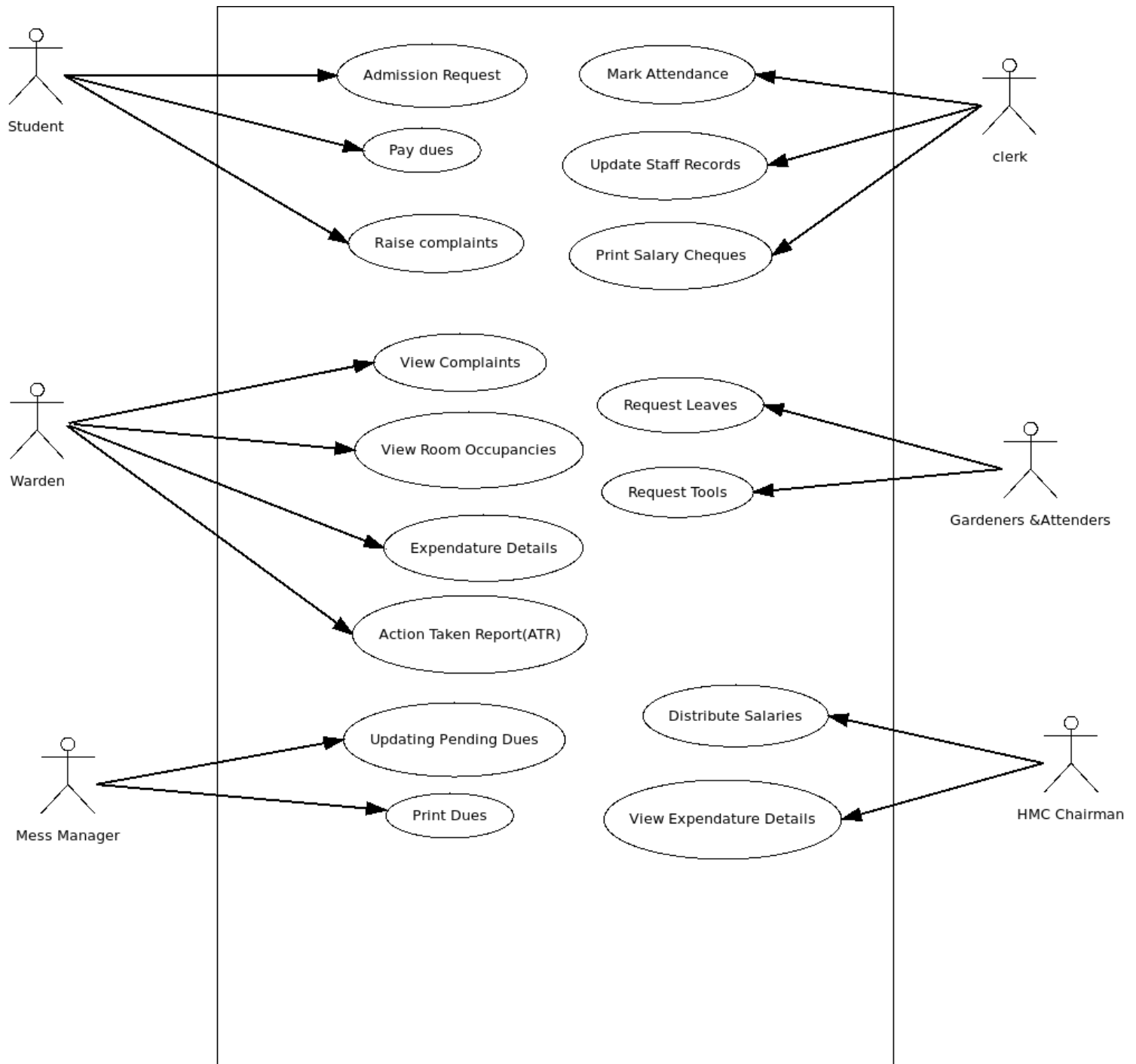
Description:	Whenever a new staff is recruited his details including his daily pay is entered. Whenever a staff leaves, it should be possible to delete his records.
Pre-conditions	Checks in the updated faculty list who had newly recruited and who had leaved the institution.
Success guarantee (post-conditions)	Use Case Name: includes his details of recruited staff and his daily pay and delete from the records who had leaved the institute for knowing the administration who are the staff members and how many of them and their daily pay details.
Frequency of use	Low
Main success scenario (or basic flow)	Whenever a new staff is recruited his details including his daily pay is entered. Whenever a staff leaves, it should be possible to delete his records it gives the good idea of the staff members who are working in the institution.
Extensions (or alternate flows)	If staff details are not updated who are recruited and who are left the campus. It may be difficult for administration for paying salaries of their staff members in the Institution.
Frequency of occurrence	Very Less

HMC CHAIRMAN:

Use-Case ID: UCHMCT-DGB	Use Case Name: Distribution grant amount
Description:	The HMC chairman should be provided support for distribution of the grant among the different halls.

Pre-conditions	The HMC receives an annual grant from the Institute for staff salary and the upkeep of the halls and gardens.
Success guarantee (post-conditions)	HMC Chairman receives annual grant from the institute and sends it to all the wardens for better maintainance of the diiferent halls
Frequency of use	High
Main success scenario (or basic flow)	The HMC receives an annual grant from the Institute for staff salary and the upkeep of the halls andgardens. The HMC chairman should be provided support for distribution of the grant among thedifferent halls. The Wardens of different halls should be able to enter their expenditure details againstthe allocations.
Extensions (or alternate flows)	If the annual grant not sanctioned by the institute there is no maintainance
Frequency of occurrence	Very Low

Unified Modelling Language Diagram(UML):

**ER DIAGRAM:**

