Team noNerds

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Semester   **: Fall - 23**
Batch   **: 40**
Section   **: D**
Course Code   **: SE-212**
Course Name   **: Software Requirement Specifications & Analysis**

Course Teacher Name   **: Ms. Tapushe Rabaya Toma**
Designation   **: Assistant Professor**

Project Company   **: UCEP Mirpur Technical School**

Submission Date   **: 18-11-2023**

About The Software

Software:

School Management System.

Features & Services:

UCEP utilizes a School Management System that offers a comprehensive suite of services for academic and student management facilities. This system facilitates tasks ranging from collecting basic student information to publishing results, contributing to the creation of a higher-quality atmosphere in the school office.

Some of its key features and services will be:

- User Authentication and Security
- Student Information Management
- Teacher and Staff Management
- Accounting and Financial Management
- Admission and Enrollment
- Routine and Evaluation
- Attendance and Leave Management
- Communication and Information Dissemination
- Multimedia and Documentation
- Institutional Facilities and Resources

The School Management System will enhance school services by streamlining administrative processes, ensuring efficient communication, and providing timely information. This efficiency translates into a more organized and responsive educational environment, allowing educators to focus on teaching. For students, the system ensures accurate data management, timely access to academic information, and improved communication channels, fostering a conducive atmosphere for better education and overall academic success.

Elicitation Technique

Group Interview:

Our first elicitation technique was a group interview. We have done an interview session with one of its Senior Teacher **Md. Azmol Hossain** and Senior Computer Operator **Md. Morshedul Islam**.

- The interview lasted for about an hour.
- We have asked questions about the institute's functionality.
- How many people are using this software?
- What type of work is mainly done by this software?
- What would be some beneficial functions to add?
- Which employees and how many of them use this software etc.

These are some questions we have asked them throughout our interview session. End of the session, we were successfully able to know the features of existing software and requirements from the future update software.

Reused Requirements:

After the group interview, we conducted a session with the help of Senior Teacher **Md. Azmol Hossain** for reused requirements. Most of the teachers and employees don't have that much technical knowledge about their management system. That's why we had to be clear about the technical aspects of the software from this session.

- We have used every function to get a knowledge of its functionality.
- We have checked its interface.
- Try to get feedback from users on how they use it.
- Documented what will be changed and what will be added.

In this session, we can able to get full requirements about this software. Now, we have a clear knowledge of its functionality and feedback from users.

User Profile - Teacher

User Class	Note on characteristics	Requirement implied
Type of user	Teacher	Interface, Performance, Security, Portability, Documentation
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Some of the teachers may have computer experience	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different academic facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	400	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	Basic training requires	Documentation
Other system use	No	
Way of working	To get and provide academic support	Quality, Portability, Safety, Security

User Profile - Accountant

User Class	Note on characteristics	Requirement implied
Type of user	Accountant	Interface, Performance, Security, Portability
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Yes	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different accounts facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	8-10	Performance, Resource, Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training required	
Other system use	No	
Way of working	To get and provide accounts support	Quality, Portability, Safety, Security

User Profile - Computer Operator

User Class	Note on characteristics	Requirement implied
Type of user	Computer Operator	Interface, Performance, Security, Portability
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Yes	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different technical facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	8-10	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training required	
Other system use	Yes	
Way of working	To get and provide technical support	Quality, Portability, Safety, Security

User Profile - Office Assistant

User Class	Note on characteristics	Requirement implied
Type of user	Office assistant	Interface, Performance, Security, Portability
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Yes	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different official facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	15-20	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training required	
Other system use	Yes	
Way of working	To get and provide official support	Quality, Portability, Safety, Security

User Profile - Admission Officer

User Class	Note on characteristics	Requirement implied
Type of user	Admission officer	Interface, Performance, Security, Portability
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Yes	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different admission facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	8-10	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training requires	
Other system use	Yes	
Way of working	To get and provide admission related support	Quality, Portability, Safety, Security

User Profile - Student

User Class	Note on characteristics	Requirement implied
Type of user	Student	Interface, Performance, Security, Portability
Age range	12-16	Interface, Quality, Operational
Frequency of use	None	
Mandatory	No	
Computer experience	No	
Education	5-th grade	
Goal	To get academic facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla	Interface, Documentation
Number of users	10,000	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training requires	
Other system use	No	
Way of working	To get academic support	Quality, Portability, Safety, Security

User Profile - Admin

User Class	Note on characteristics	Requirement implied
Type of user	Admin	Interface, Performance, Security, Portability
Age range	23 - 60	Interface, Quality, Operational
Frequency of use	Many times a day	Performance, Resource, Reliability, Operational
Mandatory	Yes	Quality, Resource, Safety, Security, Documentation
Computer experience	Yes	Documentation, Acceptance, Resource
Education	Undergraduate	
Goal	To get and provide different official facilities	Performance, Quality, Reliability, Resource, Acceptance, Maintainability, Safety, Security
Language	Bangla, English	Interface, Documentation
Number of users	01-02	Performance, Resource. Reliability, Acceptance, Operational, Quality, Safety, Security, Maintainability
Training	No training requires	
Other system use	Yes	
Way of working	To get and provide office related support	Quality, Portability, Safety, Security

SRS Documentation

FR 001	Sign up
Description	Users can create their account to use this software.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant

FR 002	Verify email
Description	Users will get a verification link via email to verify their account.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant

FR 003	Sign-in
Description	Users can log into their account and get access to the software.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 004	Get 2-step verification
Description	User will get an OTP via email or phone number
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant

FR 005	Sign out
Description	Users can log out their account and get access to the software.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 006	Gather student information
Description	Admission officer will gather student information.
Stakeholders	Office Assistant, Admission Officer

FR 007	View teacher information
Description	Users will be able to view all the information about teachers.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 008	View student information
Description	Users will be able to view all the information about students.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 009	Update teacher information
Description	Teacher himself or the computer operator will be able to update information.
Stakeholders	Teacher, Computer Operator, Admin

FR 010	Update student information
Description	Computer operator will update the information about students.
Stakeholders	Computer operator, Admin

FR 011	Remove student information
Description	Computer operator will remove information about students.

Stakeholders	Computer Operator, Admin

FR 012	Remove teacher information
Description	Computer operators will be able to remove information about teachers.
Stakeholders	Computer Operator, Admin

FR 013	View accountant information
Description	Computer operators will be able to remove information about teachers.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 014	Update accountant information
Description	Accountant himself or the computer operator will be able to update information.
Stakeholders	Accountant, Computer Operator, Admin

FR 015	Remove accountant information
Description	Computer operators will be able to remove information about accountants.
Stakeholders	Computer operator, Admin

FR 016	View admission officer information
Description	Users will be able to view the information about the admission officer.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer,

	Office Assistant, Admin

FR 017	Update admission officer information
Description	Admission officer himself or the computer operator will be able to update information.
Stakeholders	Admission officer, Computer operator, Admin

FR 018	Remove admission officer information
Description	Computer operator will be able to remove information about the admission officer.
Stakeholders	Computer operator, Admin

FR 019	View admission information
Description	Students will be able to view information about admission.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 020	Update admission information
Description	Admission officer will update admission information.
Stakeholders	Admission Officer, Admin

FR 021	Remove admission information
Description	Admission officer will remove old admission information.
Stakeholders	Admission Officer, Admin

FR 022	Collect admission form
Description	Students can collect admission forms via this web application.
Stakeholders	Student, Admission officer

FR 023	View accommodation information
Description	Students will be able to view all the information about accommodation.
Stakeholders	Student, Computer Operator, Admission Officer, Admin

FR 024	Update accommodation information
Description	Office assistant will update accommodation information.
Stakeholders	Office Assistant, Admin

FR 025	Remove accommodation information
Description	Office assistant will remove invalid accommodation information.
Stakeholders	Office Assistant, Admin

FR 026	View class routine
Description	Students can view the class routine from here.
Stakeholders	Student, Teacher, Computer Operator, Admin

FR 027	Update class routine
Description	Teacher will update class routine.
Stakeholders	Teacher, Admin

FR 028	Remove class routine
Description	Teacher will remove invalid class routine.
Stakeholders	Teacher, Admin

FR 029	View exam routine
Description	Students can view the exam routine from here.
Stakeholders	Student, Teacher, Computer Operator, Admin

FR 030	Update exam routine
Description	Office assistant will update new exam routine.
Stakeholders	Office Assistant, Admin

FR 031	Remove exam routine
Description	Office assistant will remove invalid new exam routine.
Stakeholders	Office Assistant, Admin

FR 032	Submit exam results
Description	Teacher will add their subject exam results to the system.
Stakeholders	Teacher

FR 033	View exam results
Description	Students can view the exam results from here.
Stakeholders	Student, Teacher, Computer Operator, Admin

FR 034	Update exam results
Description	Office assistant will update newly added results.
Stakeholders	Office Assistant, Admin

FR 035	Remove exam results
Description	Office assistant will remove old exam results.
Stakeholders	Office Assistant, Admin

FR 036	Take students attendance
Description	Teachers will be able to take attendance via this software.
Stakeholders	Student, Teacher

FR 037	Give employee attendance
Description	The Institute will take the attendance of its employees via this software through a fingerprint reader.
Stakeholders	Teacher, Accountant, Computer Operator, Office Assistant, Admission Officer

FR 038	Give students evaluation
Description	Teacher will give a student evaluation via this software.
Stakeholders	Student, Teacher

FR 039	View students evaluation
Description	Users, especially guardians will be able to view student evaluation.
Stakeholders	Student, Teacher, Admin

FR 040	Update students evaluation
Description	Teacher will update old evaluation.
Stakeholders	Teacher, Admin

FR 041	Remove students evaluation
Description	Teacher will remove old evaluation.
Stakeholders	Teacher, Admin

FR 042	View dashboard
Description	Users will be able to view their dashboard.
Stakeholders	Teacher, Accountant, Computer Operator, Office Assistant, Admission Officer, Admin

FR 043	View tuition fees
Description	Students will be able to view their tuition fees.
Stakeholders	Student, Teacher, Accountant, Computer Operator, Admin

FR 044	Update tuition fees
Description	Accountant will update new tuition fees.
Stakeholders	Accountant, Admin

FR 045	Remove tuition fees
Description	Accountant will remove old tuition fees.
Stakeholders	Accountant, Admin

FR 046	Make payment
Description	Students can pay their tuition fees via this software.
Stakeholders	Student, Accountant

FR 047	Select payment method
Description	Students will be able to select different payment methods.
Stakeholders	Student, Accountant

FR 048	Collect payment invoice
Description	After payment, students will get a payment receipt.
Stakeholders	Student, Accountant

FR 049	View payment history
Description	Students will be able to view their previous payment history.
Stakeholders	Student, Accountant, Admin

FR 050	Apply for transfer
Description	Students will be able to apply for transfer to different institutes via this application.
Stakeholders	Student, Office Assistant, Admin

FR 051	Apply leave application
Description	Students will be able to apply for leave via this application.
Stakeholders	Student, Teacher, Accountant, Computer Operator, Office Assistant

FR 052	View leave application
Description	Admin will see the leave applications.
Stakeholders	Admin

FR 053	View notice board
Description	Users will be able to view the notice board.
Stakeholders	Teacher, Student, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 054	Update notice board
Description	Computer operator will update the notice board.
Stakeholders	Computer Operator, Admin

FR 055	Remove notice
Description	Computer operator will remove invalid notice.
Stakeholders	Computer Operator, Admin

FR 056	View notification
Description	Users will receive a notification on their dashboard.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 057	Send message
Description	Users will be able to send and receive messages from one another.

Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 058	Forgot password
Description	Users will request a reset password.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant

FR 059	Verify via email
Description	Users will get an email for verification.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant

FR 060	Apply work from home
Description	Employees can apply for work from home.
Stakeholders	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant, Admin

FR 061	Apply for alumni card
Description	Previous students will be able to apply for an alumni card.
Stakeholders	Student, Office Assistant

FR 062	View publication
Description	Users can view publications from this institute.
Stakeholders	Student, Teacher, Admin

FR 063	Update publication
Description	Computer operator will update the publication section from time to time.
Stakeholders	Computer Operator, Admin

FR 064	View About us
Description	Users can view all the information about UCEP.
Stakeholders	Student, Teacher, Admin

FR 065	Update about us
Description	Computer operator will update about us information.
Stakeholders	Computer Operator, Admin

FR 066	View what UCEP do
Description	Users can view all the work of UCEP.
Stakeholders	Student, Teacher, Admin

FR 067	Update what UCEP do
Description	Computer operator will update what UCEP do section.
Stakeholders	Computer Operator, Admin

FR 068	View career at UCEP
Description	Users will be able to view the career opportunities after graduating from UCEP.

Stakeholders	Student, Admin

FR 069	Update career at UCEP
Description	Computer operator will update career at UCEP section,
Stakeholders	Computer Operator, Admin

FR 070	View news and events
Description	Users can view news and events of UCEP.
Stakeholders	Student, Teacher, Office Assistant, Admission Officer, Computer Operator, Admin

FR 071	Update news and events
Description	Computer operator will update the news and event section.
Stakeholders	Computer Operator, Admin

FR 072	View gallery
Description	Users can view the gallery of UCEP.
Stakeholders	Student, Admin

FR 073	Update gallery
Description	Computer operator will update gallery photos.
Stakeholders	Computer Operator, Admin

FR 074	View partners and donors
Description	Users can view all the partners and donors of UCEP.

Stakeholders	Student, Admin

FR 075	Update partners and donors
Description	Computer operator will update partners and donors section.
Stakeholders	Computer Operator, Admin

FR 076	View contact
Description	Users can view all the contact information.
Stakeholders	Student, Teacher, Office Assistant, Admission Officer, Computer Operator, Admin

FR 077	Update contact
Description	Computer operator will update contact information.
Stakeholders	Computer Operator, Admin

FR 078	View location
Description	Users can view the location of the institute.
Stakeholders	Student, Admin

FR 079	Update location
Description	Computer operator will update location information.
Stakeholders	Computer Operator, Admin

FR 080	View school list
Description	Users can view all the lists of schools under UCEP.

Stakeholders	Student, Teacher, Office Assistant, Admission Officer, Computer Operator, Admin

FR 081	Update school list
Description	Computer operator will update new school list.
Stakeholders	Computer Operator, Admin

FR 082	View terms and conditions
Description	Users can view all the terms and conditions of UCEP.
Stakeholders	Student, Admin

FR 083	Update terms and conditions
Description	Computer operator will update terms and conditions section
Stakeholders	Computer Operator, Admin

FR 084	Submit complaints and feedback
Description	Users can submit any complaint or give feedback to this institute.
Stakeholders	Student, Teacher, Office Assistant, Admission Officer, Computer Operator

FR 085	View complaints and feedback
Description	Users can view all the feedback given by the other users.
Stakeholders	Admin

FR 086	Get in touch
Description	People can contact us via this feature through email.
Stakeholders	Student

FR 087	View prospectus
Description	Users can view the yearly prospectus.
Stakeholders	Student, Teacher, Admin

FR 088	Update prospectus
Description	Computer operator will update the new prospectus.
Stakeholders	Computer Operator, Admin

FR 089	Apply for public certificate
Description	Students can apply to collect their public exam certificate.
Stakeholders	Student

FR 090	View alumni job placement
Description	Users can see the job placement record of the previous students from this institute.
Stakeholders	Student, Admin

FR 091	Update alumni job placement
Description	Computer operator will update alumni job placement information.
Stakeholders	Computer Operator, Admin

FR 092	View lab facilities
Description	Users can view all the lab facilities provided by the institute.
Stakeholders	Student, Admin

FR 093	Update lab facilities
Description	Computer operator will update lab facilities information.
Stakeholders	Computer Operator, Admin

FR 094	View school magazine
Description	Users can view monthly magazines published by the institute.
Stakeholders	Student, Teacher, Admin

FR 095	Update school magazine
Description	Computer operator will update magazines on a monthly basis.
Stakeholders	Computer Operator

FR 096	View social media links
Description	Users can view all the social media links of this institute.
Stakeholders	Student, Teacher, Admin

FR 097	Update social media links
Description	Computer operator will update social media links.
Stakeholders	Computer Operator
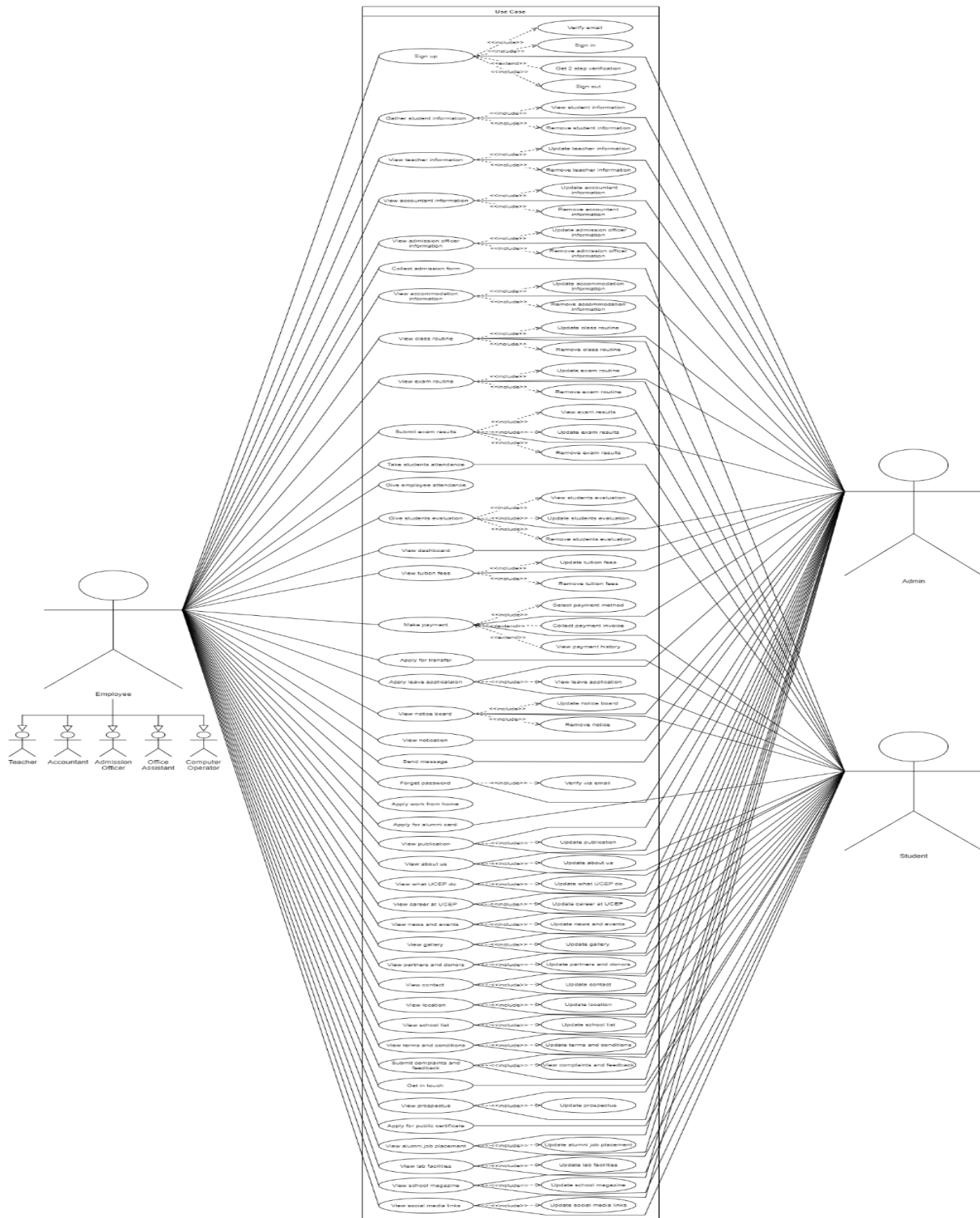
Use Case Design

Case Description

Use Case	**Gather student information**
Goal	Employees will gather student information.
Precondition	Employees will logged into the system to collect student information before admission
Success End Condition	Message:"Update Successful" Employees will successfully collect student information.
Failed End Condition	Message:"Update Unsuccessful"
Primary Actors: Secondary Actors:	Office Assistant, Admission officer
Trigger	Employees will request to log into the system.

Description / Main Success Scenario		
	1.	Employees will request to log into the system.
	2.	System provides a page with an option for Gather Student Information.
	3.	Employees select the "Gather student information" option.
	4.	System will prompt the employee to enter the necessary details for the student.
	5.	Employees will fill in the required information such as personal information, academic history, and any other relevant data.
	6.	Once information is entered and validated, employees press the submit button.
	7.	System processes the submitted information and saves it.

	8.	System provides a message of successful update.
Alternative Flows		
	1.1	Couldn't connect to the server.
		1.1.a: Message:"Server Error"
	2.1	System didn't load the page with an option for Student Information.
		2.1.a: Message:"Something Went Wrong"
	4.1	If the system didn't prompt employees to enter the necessary details.
		4.1.a: Message:"Couldn't Connect To the server"
	5.1	If employees didn't fill in the required information.
		5.1.a: Message:"Fill Up The Required Fields"
Quality Requirements	Employees must complete this process within (30-40) minutes.	

Case Description

Use Case	**View admission information**
Goal	Employees will be able to view admission information
Precondition	Employees generally need to have access to the system to view admission information
Success End Condition	Message "Review Successful" Employees will get the desired admission information.
Failed End Condition	Message "Review Unsuccessful"
Primary Actors: Secondary Actors:	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant Student, Admin
Trigger	Employees will request to log into the system.
Description / Main Success Scenario	<table><tr><td>1.</td><td>Employees will request to log into the system.</td></tr><tr><td>2.</td><td>System will provide a page of the required option.</td></tr><tr><td>3.</td><td>Employees select the "View admission information" option.</td></tr><tr><td>4.</td><td>System provides admission information.</td></tr><tr><td>5.</td><td>Employees review the information and choose to go back to the option.</td></tr></table>

Alternative Flows		
	1.1	Could not connect to server
		1.1.a: Message "Server Error"
	2.1	System did not provide the desired page.
		2.1.a:Message "Somethings Went Wrong"
	4.1	If the system didn't provide the required information.
		4.1.a:Message "Couldn't Connect To The Server"
Quality Requirements	Employees must complete this procedure within (10 -20) minutes.	

Case Description

Use Case	**Get 2-step verification**
Goal	To ensure more strong privacy protection using this method.
Precondition	Employees must verify with email or phone numbers via OTP.
Success End Condition	Message : "Successfully Verified"
Failed End Condition	Message : "Invalid OTP"
Primary Actors: Secondary Actors:	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant
Trigger	Employees will request to get OTP
Description / Main Success Scenario	<table><tr><td>1.</td><td>Employees will request to get OTP.</td></tr><tr><td>2.</td><td>System will provide OTP via email or phone numbers.</td></tr><tr><td>3.</td><td>Employee submit OTP and press verify option.</td></tr><tr><td>4.</td><td>System verify OTP and save information.</td></tr><tr><td>5.</td><td>System provides a message of successful verification.</td></tr></table>
Alternative Flows	<table><tr><td>1.1</td><td>Did not get verification OTP.</td></tr></table>

		1.1.a: Message: "Something Went Wrong"
	2.1	If system didn't send OTP
		2.1.a: Message: " Resend OTP"
	3.1	If employees entered the wrong OTP.
		3.1.a: Message "OTP Invalid"
Quality Requirements	Employees must verify OTP within 120 seconds.	

Case Description

Use Case	**View dashboard**
Goal	Employees will be able to view the dashboard.
Precondition	Employees must be Logged into the system to view the dashboard.
Success End Condition	Message :"Procedure Successful" Employees will get into the desired page
Failed End Condition	Message :"Procedure Unsuccessful"
Primary Actors: Secondary Actors:	Teacher, Computer Operator, Accountant, Office Assistant, Admission Officer Admin
Trigger	Employees will request to log into the system.
Description / Main Success Scenario	

1.	Employees will request to log into the system.
2.	System will provide a page of the desired option.
3.	Employees select the "View Dashboard" option.
4.	System gets you into the dashboard page.
5.	Employees review the information and choose to go back to the option.

Alternative Flows		
	1.1	Could not found server
		1.1.a: Message"Server Error"
	2.1	If system did not provide required option
		2.1.a: Message "Something Went Wrong"
	4.1	If the system didn't get into the dashboard page.
		3.1.a Message "Try Again Later"
Quality Requirements	Employees must complete this procedure within 10 -15 minutes.	

Case Description

Use Case	**View teacher information**
Goal	Employees will be able to view teacher information.
Precondition	Employees must be logged into the system to view teacher information
Success End Condition	Message:"Action Successful" Employees will successfully view teacher information
Failed End Condition	Message:"Something Went Wrong"
Primary Actors: Secondary Actors:	Teacher, Accountant, Computer Operator, Admission Officer, Office Assistant Admin
Trigger	Employees will request to "View Employees Information"

Description / Main Success Scenario		
	1.	Employees will request to "View Employees Information"
	2.	System provides a page with multiple options including "View Teacher Information"
	3.	Employees select the "View Teacher Information" option.
	4.	System provides a list of available teachers.
	5.	Employees select the particular teacher from the list.
	6.	System provides the information of the selected teacher.
	7.	Employees review the information and choose to go back to the option.

Alternative Flows	

<table>
<tr><td>1.1</td><td>If the server couldn't connect.</td></tr>
<tr><td></td><td>1.1.a: Message: "Error Loading This Page"</td></tr>
<tr><td>2.1</td><td>If the server didn't load.</td></tr>
<tr><td></td><td>2.1.a: Message: "Couldn't Connect To The Server"</td></tr>
<tr><td>4.1</td><td>If the system didn't provide the teacher list.</td></tr>
<tr><td></td><td>4.1.a: Message: "Oops! Something Went Wrong"</td></tr>
<tr><td>6.1</td><td>If the system didn't have the information of the selected teacher.</td></tr>
<tr><td></td><td>6.1.a: Message: "No Information Available"</td></tr>
</table>

Quality Requirements	Employees must complete this process within (25-30) minutes.

Requirements Prioritization - MoSCoW

Must	Should	Could	Won't/Would
Sign Up	Get 2-step verification	Send message	Get in touch
Verify Email	View publication	Apply work from home	View social media links
Sign In	View career at UCEP	Collect payment invoice	Update social media links
Sign Out	View lab facilities	View payment history	
Gather Student Information	View partners and donors	Remove exam results	
View students evaluation	Update students evaluation	Apply for alumni card	
View student information	Update student information	Remove student information	
View teacher information	Update teacher information	Remove teacher information	
View accountant information	Update accountant information	Remove accountant information	
View admission officer information	Update admission officer information	Remove tuition fees	
View accommodation information	Update accommodation information	Apply for public certificate	
View exam routine	Update exam routine	View alumni job placement	
View class routine	View complaints and feedback	Update alumni job placement	
View exam results	Update exam results	View what UCEP do	
View notification	Submit complaints and feedback	Update what UCEP do	
View location	Update location	Update gallery	
View contact	Update contact	Update partners and donors	
View school list	Update school list	View terms and conditions	
View leave application	Remove students evaluation	Update terms and conditions	
Submit exam results	Remove notice	Update lab facilities	
View publication	Update publication	Update career at UCEP	
Give students evaluation	Remove exam routine	Remove class routine	
Take students attendance	Select payment method	Remove admission officer information	
Collect admission form	Update notice board	Remove accommodation information	
Apply leave application	Verify via email	Remove admission information	
Apply for transfer	Update tuition fees		
Give employee attendance	View gallery		
View dashboard	Forgot password		
View tuition fees	Update prospectus		
Make payment	Update school magazine		
View school magazine	Update news and event section		
Apply for transfer	Update about us		
View news and events	Update admission information		
View prospectus			
View About us			
View admission information			

In this requirements prioritization section we used **MoSCoW (Must-have, Should-have, Could-have, Won't/Would-have)** technique. In our findings, the system **Must have 36** requirements, **Should have 33** requirements, **Could have 25** requirements, and **Won't/Would have 3** requirements.

Must have:
Sign Up, Verify Email, Sign In, Sign Out, Gather Student Information, View students evaluation, View student information, View teacher information, View accountant information, View admission officer information, View accommodation information, View exam routine, View class routine, View exam results, View notification, View location, View contact, View school list, View leave application, Submit exam results, View publication, Give students evaluation, Take students attendance, Collect admission form, Apply leave application, Apply for transfer, Give employee attendance, View dashboard, View tuition fees, Make payment, View school magazine, Apply for transfer, View news and events, View prospectus, View About us, View admission information.

Should have:
Get 2-step verification, View publication, View career at UCEP, View lab facilities, View partners and donors, Update students evaluation, Update student information, Update teacher information, Update accountant information, Update admission officer information, Update accommodation information, Update exam routine, View complaints and feedback, Update exam results, Submit complaints and feedback, Update location, Update contact, Update school list, Remove students evaluation, Remove notice, Update publication, Remove exam routine, Select payment method, Update notice board, Verify via email, Update tuition fees, View gallery, Forgot password, Update prospectus, Update school magazine, Update news and event section, Update about us, Update admission information.

Could have:
Send message, Apply work from home, Collect payment invoice, View payment history, Remove exam results, Apply for alumni card, Remove student information, Remove teacher information, Remove accountant information, Remove tuition fees, Apply for public certificate, View alumni job placement, Update alumni job placement, View what UCEP do, Update what UCEP do, Update gallery, Update partners and donors, View terms and conditions, Update terms and conditions, Update lab facilities, Update career at UCEP, Remove class routine, Remove admission officer information, Remove accommodation information, Remove admission information.

Won't/Would have:
Get in touch, View social media links, Update social media links.

Validation - <u>Traceability Matrix</u>

Sign up
Verify email
Sign-in
Get 2-step verification
Sign out
Gather student information
View teacher information
View student information
Update teacher information
Update student information
Remove student information
Remove teacher information
View accountant information
Update accountant information
Remove accountant information
View admission officer information
Update admission officer information
Remove admission officer information
View admission information
Update admission information
Remove admission information
Collect admission form
View accommodation information
Update accommodation information
Remove accommodation information
View class routine
Update class routine
Remove class routine
View exam routine
Update exam routine
Remove exam routine
Submit exam results
View exam results
Update exam results
Remove exam results
Take students attendance
Give employee attendance
Give students evaluation
View students evaluation
Update students evaluation
Remove student evaluation
View dashboard
View tuition fees
Update tuition fees
Remove tuition fees
Make payment
Select payment method
Collect payment invoice
View payment history
Apply for transfer
Apply leave application
View leave application
View notice board
Update notice board
Remove notice
View notification
Send message
Forgot password
Verify via email
Apply work from home
Apply for alumni card
View publication
Update publication
View About us
Update about us
View what UCEP do
Update what UCEP do
View career at UCEP
Update career at UCEP
View news and events
Update news and event section
View gallery
Update gallery
View partners and donors
Update partners and donors
View contact
Update contact
View location
Update location
View school list
Update school list
View terms and conditions
Update terms and conditions
Submit complaints and feedback
View complaints and feedback
Get in touch
View prospectus
Update prospectus
Apply for public certificate
View alumni job placement
Update alumni job placement
View lab facilities
Update lab facilities
View school magazine
Update school magazine
View social media links
Update social media links