

Student Affairs System



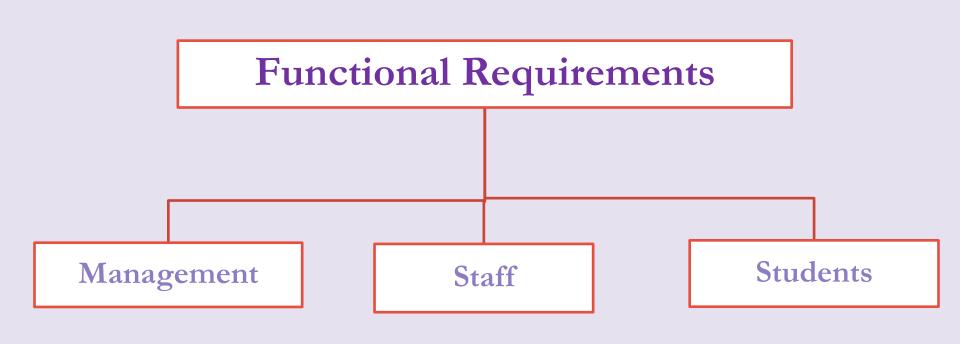


Team Members

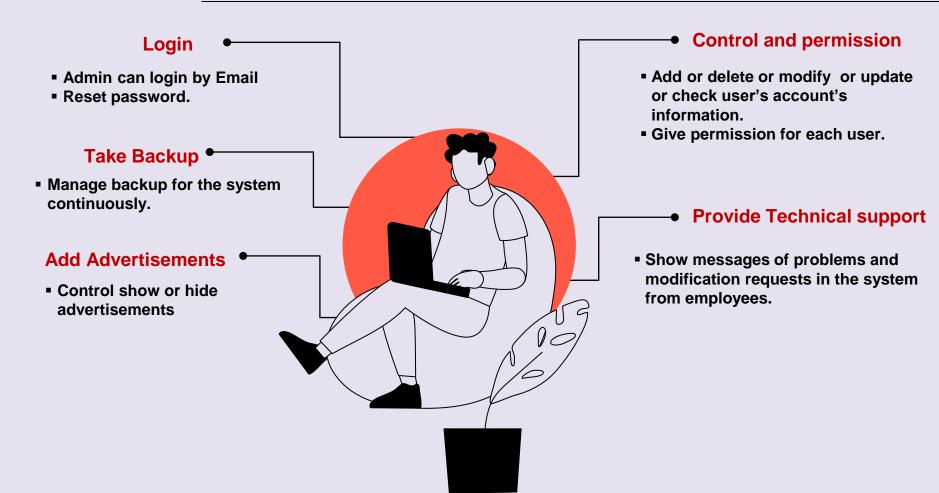
Name		
	أسماء فتحي أبو عبد الله	1
	إيمان محهد عطا الله	2
	دانا أشرف الشناوي	3
	صفوة فادي الريطي	4
	أحمد طه العشري	5
	أحمد محهد جاد	6
	أحمد خالد الشرباصي	7
	محجد أيمن أبو أربعة	8
	محد السيد العدوي	9



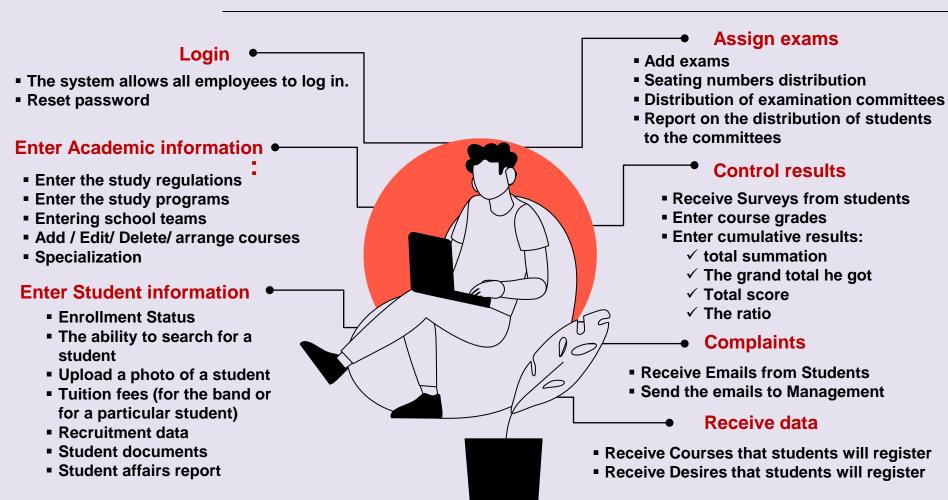
Requirements **Functional** Non-Functional



Management



Staff



Students

Login The system allows the student to log in using id and password. Reset password. Displays the student's data Personal data - previous qualification - in case of transferring to other college or institute - specialization Providing a university email for each student. Presenting a case statement for each student. **Academic registration** Subjects The desires of bifurcation **Payment details**

Display payment details about expenses

and books

Schedule

- The academic schedule.
- The mid-year, practical and final exams schedules.

Student progress

- The system monitors the absence of each student and warns in case of warnings
- The expected results to the student in the coming year after the result appears.

Complaints

- Providing a mailbox for the student as a technical support service within the system
 - Presenting the result
- Do Questionnaires For materials
- Show the result academy

Non-Functional Requirements



Operational

- Cross platforms.
- The system will be user friendly, consistent, intuitive and descriptive UI.
- The system should have a maximum of 2:3 clicks to reach any content.
- The system should support notifications.
- The system should be evolvable, scalable, testable and maintainable.
- The system should be interoperable with secondary university systems.



Performance

- Quick ask & response (under 2 sec).
- The system should be available 24 hours a day.
- 20 minutes are specified daily on a fixed date [3 am (low-intensity hours)] to maintain and update the system.



Security

- The system must protect the user's privacy.
- Every student should have a usercustomizable visibility policy for his/her personal information such as email and study timetable.
- The system will be secure and cannot affect, harm, damage the students or all users in general or their devices.



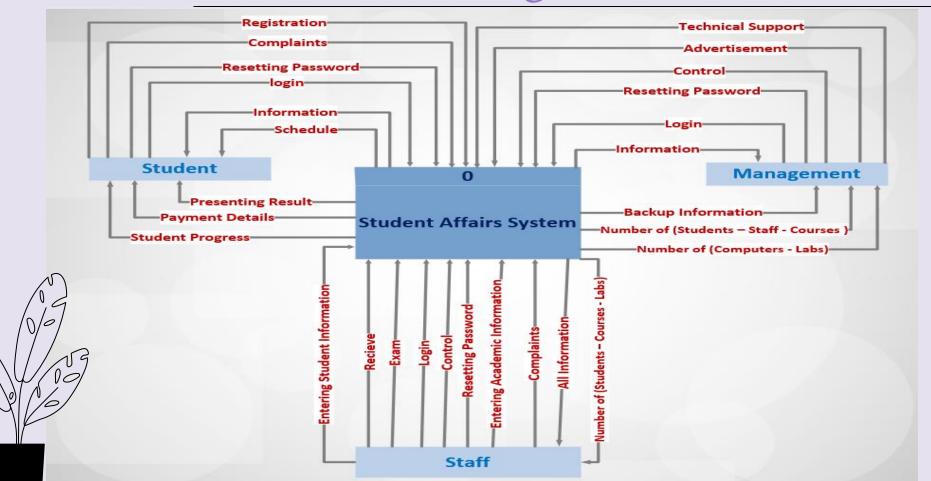


Cultural & Political

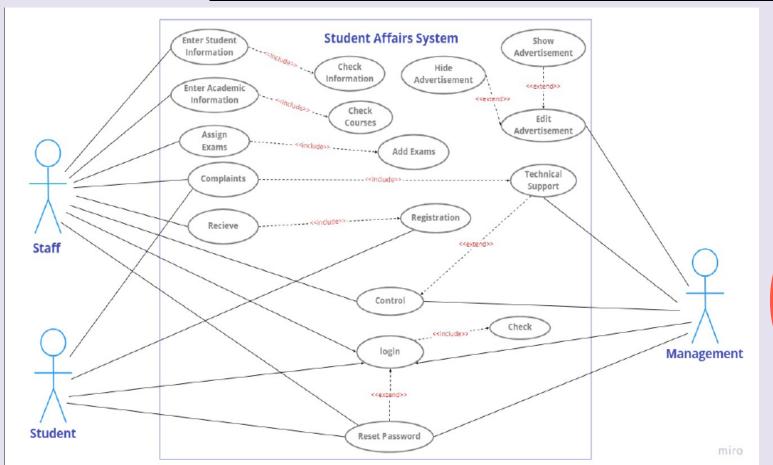
- The system should provide commonly used calendar formats.
- The system should use a related time zone.
- The system should use the currency of our country.
- The system should provide language support for all students.



Context Diagram



Use Case Diagram





Use Case Tables





Use Case Name: Login	n	ID: 1	Priority: High		
Actor: Manager, Staff,	and Student				
	case describes how a user (stud t information before they can us		o the Student Affair System by		
Trigger: User requests	s to login.				
Type: 🗹 External	Temporal				
Precondition:					
 The user not already The user has a contract. 	eady logged into the system.				
	g to log in with their account.				
Normal Course:		Inform	ation for steps:		
1. User accesses the	e URL				
	npts the user for their account c		account	109111	
	their username and password. enticates the login.		ord account	100111	
<u> </u>	ccess to the systems functionali	· · · · · · · · · · · · · · · · · · ·	st confirmation I functions		
9		Johnson			
Alternative:				\sim	
	user or password.	Reset pas	sword		
2. User already log	ged into the system before.			1,9	
Postcondition:	Postcondition:				
1. The user is logged in to the system.					
2. The user has acc	ess to the functions of the syste	m.	0	0	
Exceptions:				[▶] √ 1 / / √ 7	
1. Incorrect passwo	ord or email.		\	0,14/10/1	
 Server crash. Power cut off. 			`	$\sim 10/10$	
				1331/9/	
Summary	C.		5		
Inputs	Source	Outputs	Destination		
Email account	User (student, staff, and	Request confirmation	User (student, staff, and		
Password account	Manager info)	Control functions	Manager info) Controlling		
		Reset password	reseting		
		•			

Use Case Name: Resett	ing Password	ID: 2		Priority: High	
Actor: User (Students,	Staff) - Admin (Management).				
Description: This use c	ase helps the user to either set	a new password or r	egain their	old one.	
	"FORGOT PASSWORD?!" li	nk.			
Type: External	Temporal				
Precondition:					
1. The user forgets the					
2. The user can't acces	s the system using their passw	ord.			
Normal Course:			Informa	tion for steps:	
1. The user writes the	correct username and the inco	rrect password.			
•	n "invalid username or passwo	C		name and password.	T
	ne "FORGOT PASSWORD" li		→ Erro	r message.	Resetting
	the page where the user needs bout their username and phone				Resetting Password
5. The user answers the	and the second of the second o				D 1
6. The system sends ar	n SMS code to the number for	verification and	← Answ	vers.	Password
prompts the user to			. Wowif	ication configuration.	
7. The user enters the c				e sent to the user.	
	whether the code is correct or new code and sends it.	not, if wrong the			
	prompts the admin to send the	user's password.	→ Error m	nessage.	
Alternative:	•	•			1 19
	w password and sends it throug	rh the phone			10/0/
number.	w password and sends it tillous	gii the phone			
					(0) // 150
Postcondition:					
1. User is logged in and able to use the system functions.				10114/10/	
Exceptions:					
1. Server crash.					
2. Power cut off.					1
Summary Inputs	Source	Outputs		Destination	1 1/
Answers about	User (Students and	Verification		User (Students and Staff	
phone number.	Staff info).	confirmation.		info).	
Verification code	System code			Í	
that was sent	generator.				

Use Case Name: Managen	nent Control	ID: 3	Priority:	Medium	
Actor: Management					
Description: Management	t can add, delete, modify or check t	ser's account information and giv	e permission for each user.		
	nagement to be able to distribute t Femporal	he and permission modify the data	a.		
All other administra	ecify who has the right to put users' ators must have prior e-mails. anager must be pre-defined.	e-mails, or he should set e-mails	according to the university's	s policy.	
a) Determine who is re may be the owner hi		the owner according to the colleg	ge policy, or it	mation for steps:	
d) Modify the student of 2.0 Give permissions to	of each member of the staff accordidate added by the staff. be each user:		Stafi	f information f information lents' information	Control
b) Determining the me policy.c) Determining faculty	and give him permissions according the mbers of student affairs and giving y members and giving permissions available to students according to the s	them permissions according to the according to university policy.	ue university's	versity policy versity policy versity policy versity policy	
Exceptions:					/,9
E1: System failure.					10/0/
E2: A student left the college and his data was not deleted from the database. E3:One of the employees has been promoted and his data in the database has not been modified.					
Postcondition: 1.Everyone in the working body has an email and personal information 2.Each student has an email address and personal information 3.Everyone on the system has specific powers					
Summary Inputs	Source	Outputs	Destination		
University policy	controlling	students' information staff information	students' d staff datab		

Use Case Name: Staff Con	trol	ID: 3	Priority: Medium	
Actor: Staff				
Description: The staff can	control the results and grades of the s	tudent		
Trigger: So that the staff ca	n add the student's grades. T emporal			
Precondition: Student absence rep Student's semester v Exam scores taken l Report on the numb	work grades.	l.		
c. Enter grades d. Enter total su	counting. of quarterly grades for each course. ammation. nd total he got. core.		Information for steps: Exams grades Student report Grades of courses Student report Student report Student report Student report Student report	Control
Exceptions: E1: System failure.				
· ·	a result of a specific error, such as the	similarity of names.		
E3:More than one student forgo	ot to enter the name on the examination	on paper.		(0) //23
Postcondition: 1.Student Status (Passed - F 2. A full report on the studer	ailed - Passed with materials). nt's grades.		,	
Summary Inputs	Source	Outputs	Destination	
Exams grades Student report	controlling controlling	full report on the student's grades.	students' database	

Use Case Name: edit a	ads	ID: 4	Priority: low	
Actor: manager				
Description: this use	case describes adding and editir	ng advertisement on the syster	n	
Trigger: announcing	various events and things relate	d to the faculty and students		
Type: External	☑Temporal			
Precondition:				
1- The web site is ava	ailable			
2- Ads are available				
Normal Course:		Inforn	nation for steps:	
			1	
1- Add ads to the sy (moving bar)	stem in the place designed	for them New ad	lvertisement	F Ait
2- Make any edits o	on the ads.	← Availa	ble advertisement	Lan
2 mane any care o				Edit Advertisement
A 1.				Aaverusement
Alternative: 1. The system sends	ads via e-mail to users	New adv	ertisement	10
1. The system sends	ado via e man to users			
D				1,9
Postcondition: 1- The system will disr	play the available ads to all users	s dealing with the system		10/0/
Exceptions:				
1. The system failure				
2. The system does i				
3. Ads are not availa	ble to some users			30/0/
Summary				
Inputs	Source	Outputs	Destination	
New advertisement	Advertisement database	Available advertisement	Advertisement database	
wa , or to or to or				

Use Case Name: tech	nical support	ID: 5	Priority: low	
Actor: management			<u> </u>	
Description: solve staff				
This use case describes how a	user management provide techn	nical support for staff in the	system if a problem occurs.	
Trigger:				
Problem occurs with stat	ff.			
Type: External	Temporal			
Precondition:				
1- Logged in the syst	em			
2- Have e-mail.				
3- Have all data of us	sers.			Toobnical
Normal Course:		Info	ormation for steps:	Technical Support
Receive the prob	lem form staff. ←	Staf	f problems	
Receive message	confirming from staff.		aff confirmations	Support
 Solve problems o 		1	f problems	bupport
Send message co	onfirming to staff that the proble	$m ext{ is solved.} \longrightarrow Starr$	f confirmations	10
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Postcondition: Problem will be solved				
Froblem win be solved				/_ /_ /
				/\)/0/
Exceptions:				
System failure				$ \setminus \circ^{\vee} \wedge / / \wedge \cup \gamma $
Problem still occur				1 \0'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
				7 81 1 1/0/
Summary Inputs	Source	Outputs	Destination	
niputs	Source	•	Destination	
		Staff solved problems		
Staff problems	management complains database		Management complains database	
Staff confirmation	dutubuse		Gatabase	

Use Case Name: Cor	mplaints	ID: 6		Priority: low	
Actor: Staff, Student					
<u> </u>	complaints from students roblems of staff to Management	:			
Trigger: Solve the pr Type:	oblems of students and staff Temporal				
	nts and staff identified hnical support email identified				
Normal Course:			Informa	tion for steps:	
3. send mess	problem mail of the problem to staff age confirmation to staff that det solved or not			ent Problems ent Confirmation	Complaints
2. Receive me3. problems o4. Send messa	nails from students <		StudeStaff :	ent Problems ent Confirmation Problems Confirmation	
Postcondition: 1. Problems of studer 2. Problems of staff a	nt are solved				
Exceptions: 1. The system falls 2. Student or staff se	nt a message and it did not reach				
Summary Inputs	Source	Outputs		Destination	
Student Problems	Student complaints database	Student Problems		Student complaints database	
Student Confirmation	Student complaints database	Student Confirmati		Student complaints database	
		Staff Problems Staff Confirmation		Staff complaints database Staff complaints database	

its desires of bifurcation.		
its desires of bifurcation.		
		_
Information	on for steps:	
		Registration
← Courses		
		1 / 4
academic registration department.		10/0/
Destination		
Information	Registration database.	
	Add course Add desire of Add surveys Account inf Courses Information academic registration department. permission to modify. ted. Destination	Account information Courses Information academic registration department. permission to modify. ted. Destination

Use Case Name: Rec	ceive	ID: 8	Priority: high	
Actor: Staff				
	Courses that students will regist Desires that students will registe			
Trigger: When Stude When Stude	ent Register Courses ent Register Desires			
Type: External	☑ Temporal			
	ent register are available ent register are available			
Normal Course: 1. Receive 2. Receive	Courses	← Inform Cour ← Desir		Receive
	ourses that student register Desires that student register			
Exceptions: 1. The system falls 2. Did not receive C 3. Did not receive D				
Summary Inputs	Source	Outputs	Destination	
Courses Desires	Students Courses Students Desires	Report of courses and Desires	Student database	

Ose Case Name. Assign Exam		ID. 9	Filority, high	
Actor: Staff				
Description: Add exams to the	e system, Seating numbers distribu	ition & Distribution of examination	n committees	
Trigger:				
1- Determining the exam fo	r each course			
2- Determining Seating num				
3- Determining Examination				
Type: External Ten				
Precondition:	•			
1- Sign in successfully				
2- Exams to be added are ava	uilable			
3- Seating numbers to be add				
4- Examination committees to				
Normal Course:			tion for steps:	Assign Exams
1- Entry to the department2- Entry to the course			artment Name ese Name	ASSIXII LAAIIIS
3- Add Exams		3- Exar		O
4- Seating number distribution	An.	The state of the s	ing number	
5- Distribution of examinatio			nination committees	
	ution of students to the committees		ort on the distribution of students	
o wake a report on the distrib	ation of students to the committees		e committees	
		to th	ic committees	Λ
Postcondition:				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
 The system will display the 	exams			
2- The system will display the	Seating number			1,9
3- The system will display Ex	amination committees			
4- The system will display the	Report on the distribution			/ \/ /
Exceptions:				
 The system failure 				
2- The system does not display				$1 \times 1 \times$
3- There was an error in the ex				
4- The system does not display	•			10,14/10/
5- The system does not displa				
6- The system will display the	Report on the distribution			7 4 / /
Summary				$1 \qquad \qquad$
Inputs	Source Outputs	S Destination		
1- Department Name	1- Department Database	1- Exams	1- Department Database	1
2- Course Name	2- Course Database	2- Seating number	2- Course Database	
		3- Report on the		
		distribution of students		
		to the committees		

D

Use Case Name: Academic	registration	ID: 7	Priority:	High	
Actor: Student					
Description: The use case of	describes register students' courses and i	ts desires of bifurcation.			
	courses and desires of bifurcation.				
Type:	Temporal				
	accesses the website.				
	t identity is authenticated. abase is available and on-line.				
	nt department.				
Normal Course:		Inform	nation for steps:		
.0 registering courses and desi					
 The student enter courses (The student register it's de 	sire of bifurcation.	Add co	urses re of bifurcation.		
3. The student register the su	rveys.	← Add surv			Enter Academic
					Effici Academic
Alternative:					T 0
.1 The student accesses the w	ebsite.				Information
1- The student login			nt information		
	register courses (12 hour or 21 hour). checks the accuracy of the information.	Course			$\Delta \Omega$
					\n^ \
Postcondition:					1,9
	s appeared for students after entrance to	academic registration department.			/0/2/
2. Student submit changes a	fter he finish.				
Exceptions:					
1- Invalid password of	r email. s not available and off-line.				1 (30) 1//59
	ng to modify data that he does not have p	ermission to modify.			
4- The student may en	nter courses has more hours than expecte	d.			
3- Internet disconnect	11011				
5					
Summary Inputs	Source Outputs	Destination			
1. Add courses 2. Add desire of	Students database. Academic registration	Information	Registra	ation database.	
bifurcation	department.				
3. Add surveys					
4. Account information 5. Courses					

Use Case Name: Ente	Use Case Name: Enter Student Information			Priority: High	
Actor: Staff					
Description: Adding Student Information to the system					
Trigger: View data about each student					
Type: ☑ External Temporal					
Precondition:					
1- Availability of data to be added					
Normal Course: 1- Add Enrollment Status			Information for steps: 1- Enrollment Status		
2- Upload a photo of a student			2- Upload Photo		
3- Add Tuition Fees 3- Tuition Fees					
4- Add Recruitment data 4- Recruitment I					Enter Student
5- Add student documents			5- Student documents		Litter Student
6- Add Student affairs report			6- Student affairs report		To Common Cina
					Information
Postcondition:					1
1 – The system will display all the student information					
Exceptions:					
1- The System failure					
2- The system does not display the student information					
3- There was an error in the student information					(°()\ / /16
Summary	S	Out to the		Destination	
Inputs	Source	Outputs		Destination	
7 F 11 . G	Students Database	1- All student's information		Students Database	
7- Enrollment Status8- Upload Photo	Students Database	2- Students affair	s report	Students Database	
9- Tuition Fees					
10-Recruitment					
Data					
11-Student					
documents					
12-Student affairs					
report					





Data Flow Diagram

