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Introduction:

This document has the restaurent automation system. The restaurent automation system is used by customers. By using the online system, system provides information about restaurent details.

Purpose:

The purpose of this document is to gather the requirements that are needed for restaurent automation system.

Intended audience:

The intended audience are customers.

Stakeholders:

Client: Manager, Clerk.

Users: customers.

Product Vision

Vision Statement:

The product vision is to develop a restaurant automation system, This System helps to provide restaurant details like order processing, billing, accounting etc.

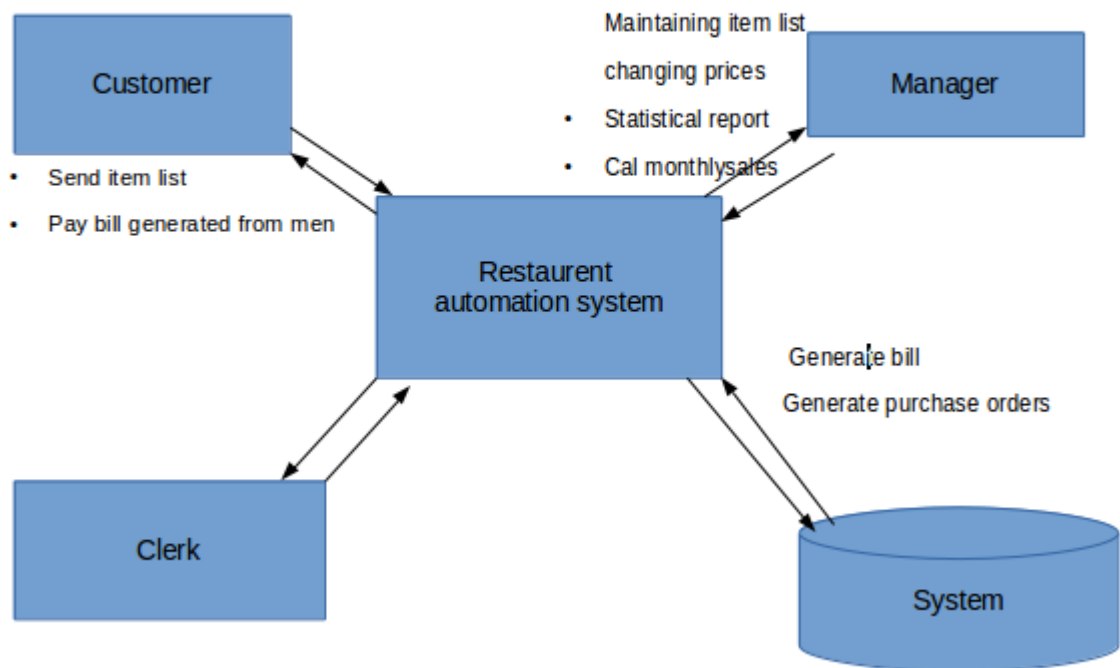
Technologies:

HTML, CSS, PHP, MYSQL, JAVA SCRIPT and XAMPP

System in Context:

Restaurant Automation System is a multi user system which provides details of restaurant and food accounts. The manager upload the information to the system about the customer and the manager calculates the accounts and uploads to system. If the customer wants to login or see the menu he can access from the online system. The system contains account information.

Context diagram



User Characteristics:

The users are typical computer users.

Constraints:

N/A

System Wide Requirements(Received)

Actors:

The system interacts with three kinds of users. Each user has own functions to access with system. The functionalities of users are dependent on each other.

Events:

Restaurent is a multi user system ,which provides help to the customers.

The most critical events are:

1. First of all Customers has to login into the website to register.
2. Customer send items to clerk.
3. Clerk want to enter the item list to the system.
4. item sold to the customer.
5. print receipt to manager.
6. manager wants to change the prices.
7. bill generate to the customer.

S.NO	Actor	Action	Object	Frequency	Arrival pattern	Response
1.	Customer	opens	Web page	1/day	Episodic	Page open ,it has link for login.
2.	Customer	selects	Login page open	1/day	Episodic	Got a registration form
3.	Customer	login	Food details form	1/day	Episodic	Got a form for food details
4.	Customer	selects	Food items	1/day	Episodic	Enable submit button
5.	Customer	shows	Food items	1/day	Episodic	Registered form
6.	Customer	selects	Results web page link for login	1/day	Episodic	Login form
7.	Customer	login	Items selection	1/day	Episodic	Display items
8.	Manager	Open,login	Web page	1/day	Episodic	Page open,and enter the items
9.	Manager	send	sheets	1/day	Episodic	Leave the

						item information to Manager
10.	Manager	recieve	status	1/day	Episodic	Whether the items are recived or not (successful or un successful)
11.	Manager	upload	Food details	1/day	Episodic	Clerk Recieve the item list.
12.	Clerk	Open,login	webpage	1/day	Episodic	Page open,recieve s the details from manager
13.	Clerk	Upload items,food details	Items webpage	1/day	Episodic	Successfully uploaded or not message
14.	Clerk	Check	Items webpage	1/day	Episodic	Checking the item list details
15.	Clerk	upload	Web page	1/day	Episodic	Research projects, publications by the faculties
16.	Clerk	Open	webpage	1/day	Episodic	Display login form
17.	Department_ manager	login	Web page	1/day	Episodic	Details about food and department accounts
18.	Department_ manager	upload	Account web page	1/day	Episodic	Details about income,expe nditure ,balance
19.	Department_ manager	buy	equipments	1/day	Episodic	Buying equipments like books,statio nary items in demart

20	Department_manager	Get funds	sponsors	1/day	Episodic	Get fund from sponcers
21	Department_manager	Release funds	Departments	1/day	Episodic	Release funds to the departments

Functional Requirements:

Use case overview:

s.no		Use-case ID:	Use-case name:	priority	stability	
1.		UC-UDIS-SR	Student_Register	High	Stable	
2.		UC-UDIS-SVR	Student_view results	High	Stable	
3.		UC-UDIS-SPR	Secretary_Post register form	High	Stable	
4.		UC-UDIS-SVSD	Secratery_View student details	High	Stable	
5.		UC-UDIS-SUR	Secratery_upload results	High	Stable	
6.		UC-UDIS-SSPP	Secratery_store pulications, projects	High	Stable	
7.		UC-UDIS-ILGS	Instructor_leaves grade to secretary	High	Stable	
8.	UC-UDIS-ISSS	Instructor_send sem subject to secretary	High	Stable	Verifiable	
9.	UC-UDIS-MUA	Manager_uplo ad account	High	Stable	Verifiable	
10.	UC-UDIS-MMF	Manager_manages funds	High	Stable	Verifiable	

11.		UC-UDIS-MBE		Manager_buying equipments		High		Stable	
12.		UC-UDIS-MGF	Manager_get funds	High		Stable		verifiable	
13.		UC-UDIS-MRF	Manager_relea se funds	High		Stable		verifiable	

Use Case diagram:



Use case Specifications:

1. UC-UDIS-SR:Student_Register

Use-case ID:UC-UDIS-SR:	Use-case name: Login
Discription:	1.Customer must be view the restaurent website

	2.Customer fill the valid user name and password.
Pre-conditions	1.Customer login with user name and password.
Success guarantee (post-condition)	1.it shows the notification about login.
Frequency of use:	High
Main success scenario (or basic flow)	1.Customer access the RAS website. 2.Customer selects login option and fill the details and submit the details. 3.Customer got the notification of you are successfully login.
Extensions(or alternate flows)	1.If student doesn't fill required details or entered invalid details like id 2.If students did not select the all subjects a.The system prompts the student to fill/check the details again
Frequency of occurrence	Very High

2.UC-UDIS-SVR:Student_view results

Use-case ID:UC-UDIS-SVR:	Use-case name: Student_view results
Discription:	student must view the university website.
Pre-conditions	Student login with user name and password.
Success guarantee (post-condition)	Student will get results other wise they will get a message results will
Frequency of use:	High
Main success scenario (or basic flow)	1.student access the university website homepage. 2.student login with their user id and password. 3.they will get results
Extensions(or alternate flows)	1.If student doesn't fill required details or entered invalid details like id 2.the results are not in website a.The system prompts the student to fill/check the details again b.results will be update soon
Frequency of occurrence	Very High

3.UC-UDIS-SPR:Secretary_Post register form

Use-case ID:UC-UDIS-SPR:	Use-case name: Secretary_post register form
Discription:	He will upload the registration link to the web site
Pre-conditions	Secretary login with user name and password
Success guarantee	He will get the list of registered ids

(post-condition)	
Frequency of use:	High
Main success scenario (or basic flow)	1.secretary access the university website homepage. 2.student login with their user id and password. 3.he will upload the registartion link to the website
Extensions(or alternate flows)	Show pop-up message like recorrect the registration form
Frequency of occurrence	Very High

4.UC-UDIS-SVSD:Secratory_View student details

Use-case ID:UC-UDIS-SVSD:	Use-case name: Secratory_View student details
Discription:	If he enters the Student id he can able to view the student details.
Pre-conditions	Secretary login with username and password
Success guarantee (post-condition)	He will get the deatils of student
Frequency of use:	High
Main success scenario (or basic flow)	1.secretary access the university website homepage. 2.student login with their user id and password. 3.If he enters the student id he can able to view the student details
Extensions(or alternate flows)	1.if he might entered wrong details 2.if student doesn't register he will get a message like no data found.
Frequency of occurrence	Very high

5.UC-UDIS-SUR:Secratory_upload results

Use-case ID:UC-UDIS-SUR:	Use-case name: Secretary_upload results
Discription:	He will upload the student results to the web site

Pre-conditions	Secretary login with user name and password
Success guarantee (post-condition)	He will get message like successfully uploaded or not
Frequency of use:	High
Main success scenario (or basic flow)	1.secretary access the university website homepage. 2.student login with their user id and password. 3.he will upload the student results to the website
Extensions(or alternate flows)	Results will be updated soon
Frequency of occurrence	Very High

6.UC-UDIS-SSPP:Secratery_store pulications,Research projects

Use-case ID:UC-UDIS-SSPP:	Use-case name: Secratery_store pulications, projects
Discription:	He will store the publication of faculties and research projects
Pre-conditions	Secretary login with user name and password
Success guarantee (post-condition)	He will get message like successfully stored or not
Frequency of use:	High
Main success scenario (or basic flow)	1.secretary access the university website homepage. 2.secretary login with their user id and password. 3.he will store the publication of faculties and research projects
Extensions(or alternate flows)	-----
Frequency of occurrence	Very high

7.UC-UDIS-ILGS:Instructor_leaves grade to secretary

Use-case ID:UC-UDIS-ILGS:	Use-case name: Instructor_leaves grade to secretary
Discription:	He will upload grade to the secretary
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will get message like successfully uploaded or not
Frequency of use:	High
Main success scenario (or basic flow)	1. Instructor access the university website homepage. 2.Instructor login with their user id and password. 3.he will upload the grade to secretary
Extensions(or alternate flows)	If he might not get student results/marks
Frequency of occurrence	Very high

8.UC-UDIS-ISSS:Instructor_send sem subject to secretary

Use-case ID:UC-UDIS-ISSS:	Use-case name: Instructor_send sem subject to secretary
Discription:	He will send sem subjects to secretary
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will get message like successfully uploaded or not
Frequency of use:	High
Main success scenario (or basic flow)	1. Instructor access the university website homepage. 2.Instructor login with their user id and password. 3.he will send sem subjects to secretary
Extensions(or alternate flows)	-----
Frequency of occurrence	Very high

9.UC-UDIS-MUA:Manager_upload account

Use-case ID:UC-UDIS-MUA:	Use-case name: Manager_upload account
Discription:	He will manages the department accounts
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will get the information about expenditure,balance,income details
Frequency of use:	high
Main success scenario (or basic flow)	1. manager access the university website homepage. 2.manager login with their user id and password. 3.he will manages the department accounts
Extensions(or alternate flows)	If data is not available regarding accounts
Frequency of occurrence	Very high

10.UC-UDIS-MMF:Manager_manages funds

Use-case ID:UC-UDIS-MMF:	Use-case name: Manager_manages funds
Discription:	He will gets funds from different consultancy services.
Pre-conditions	Instructor login with user name and password

Success guarantee (post-condition)	He will get information about funds
Frequency of use:	High
Main success scenario (or basic flow)	1. manager access the university website homepage. 2.manager login with their user id and password. 3.he will manages the department funds
Extensions(or alternate flows)	If the university might not get any funds
Frequency of occurrence	Very high

11.UC-UDIS-MBE : Manager_buying equipments

Use-case ID:UC-UDIS-MBE:	Use-case name: Manager_buying equipments
Discription:	He will buy equipments by using funds
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will get receipt about bought equipments
Frequency of use:	High
Main success scenario (or basic flow)	1. manager access the university website homepage. 2.manager login with their user id and password. 3.he will buy equipments
Extensions(or alternate flows)	He doesn't buy the equipments .
Frequency of occurrence	Very high

12.UC-UDIS-MGF:Manager_get funds

Use-case ID:UC-UDIS-MGF:	Use-case name: Manager_get funds
Discription:	Manager get funds from sponsors
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will get funds
Frequency of use:	High

Main success scenario (or basic flow)	1. manager access the university website homepage. 2.manager login with their user id and password. 3.funds form will display ,the manager fill the form he get fund
Extensions(or alternate flows)	Amount will be stable as before
Frequency of occurrence	Very high

13.UC-UDIS-MRF:Manager_Release funds

Use-case ID:UC-UDIS-MBE:	Use-case name: Manager_Release funds
Discription:	He will release funds for all departments
Pre-conditions	Instructor login with user name and password
Success guarantee (post-condition)	He will release funds
Frequency of use:	High
Main success scenario (or basic flow)	1. manager access the university website homepage. 2.manager login with their user id and password. 3.A form will display, the manager fill the form with purpose then he
Extensions(or alternate flows)	He will get pop-up message as insufficient balance in account
Frequency of occurrence	Very high

Non-Functional Requirements:

Reliability:

User should get appropriate information about his results , registration details.

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 system.

Accessibility:

Restaurant Automachine System support multi user accessing. Any Manager can access the system from different places to use the system.

Performance:

User should have fast access to get the information from the Restaurant Automachine System. User should retrieve the information from Restaurant Automachine System quickly.

Security:

As it is a web based application it should be more secure in order to save details of restaurant confidential data from hackers.

Platform Compatibility:

This System has to work on any kind of operating system without modifying it.