

JAVA PROJECT

INFORMATION AND COMMUNICATION TECHNOLOGY

SERVICES MANAGEMENT

ABSTRACT

The projects aim to develop a system to allocate the various ICT services like software, type of hardware, network, multimedia, etc. to the college. Various clients can request service to the ICT service department. According to the client's request, experts of the requested service would be provided by the ICTS department to resolve the issue. The various services provided by the department are installation of software, repair computer parts like keyboard repair, CPU parts repair etc., improve network connectivity, multimedia services etc. Clients like students and faculty can place a request for the services after a special approval from the HoD of the respective department. Clients like the head of the department, principal, department coordinators, etc. of the college do not require any approval to request the services provided.

To implement this project, various actors are required. They are the ICT department Admin, Department Staffs, Students, Faculty and HoD and each of them have different roles. The role of the ICT department admin is to show the various services provided by the department, to assign the staff to services offered, to modify staff details, to provide the client with the corresponding staff and to review the feedback given by the clients. ICT Dept Staff has the role of providing services for the client and also can modify their details. HoD has the role to approve or reject the requests from students/faculty, modify faculty details and can request directly to the ICTS Department. Faculties can request for the various services offered by the ICT service. Students too can request for various services offered by the ICT services.

For implementing the project, the following classes are to be used:

1.Class Admin

Data Members

Admin_name, Admin_email

Member Functions :

add_staff(), modify_staff() ,assign_staff(), check_reviews().

2.Class Staff

Data Members:

Staff_name, Staff_id, Staff_email, Staff_address.

Member Functions :

modify_staff() , display_details()

3.Class HOD:

Data Members:

Hod_name, Hod_id, department, Hod_email, Hod_address.

Member Functions :

add_student() ,add_faculty() , approve_request() ,modify_faculty(),
modify_student(), request_service.

4.Class Faculty:

Data Members :

faculty_name, faculty_id, department, faculty_email, faculty_address and
services_requested.

Member Functions :

add_student(), request_for_approval(), modify_student(), modify_faculty().

5. Class Student

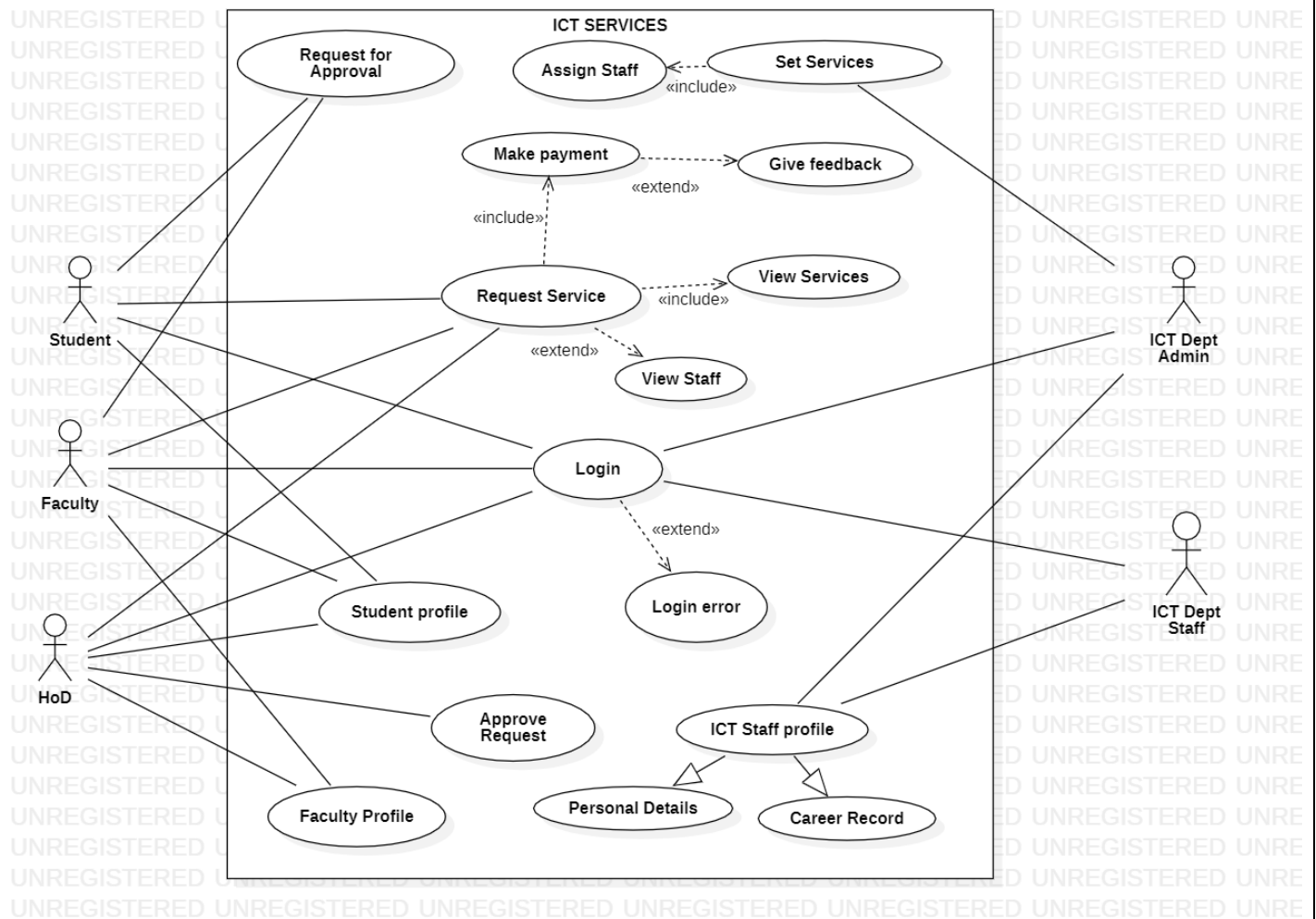
Data Members:

student_name, student_id, department ,student_id, student_email,
Student_address and services_requested.

Member Functions :

request_application(), modify_student()

USE CASE DIAGRAM



USE CASE DESCRIPTION

1. Login

| | |
|-------------|--|
| USE CASE | Login |
| ACTOR | Admin, Staff, Student, HoD, Faculty |
| INPUTS | Username and Password |
| OUTPUTS | State whether username and password are correct |
| DESCRIPTION | <p>The Faculties, Students, HOD, Admin, and the staff must have a valid username and password.</p> <p>If the client/admin/staff types a valid username and password, Welcome will be displayed on the screen and the client will be allowed to select various services and the admin will be able to assign staff/Modify Staff details/Review the feedback given by clients.</p> |

| | |
|--|--|
| | Else they will be redirected to Login Error. |
|--|--|

2. Login Error

| | |
|-------------|--|
| USE CASE | Login Error |
| ACTOR | Admin, Staff, Student, HoD, Faculty |
| INPUTS | Username and Password |
| OUTPUTS | Displays error if username or password is incorrect |
| DESCRIPTION | The clients/admin/staff who gave an invalid username/password will be redirected here. They will have 10 chances to type the correct username/password and the site will be locked after that |

3. Request Service

| | |
|-------------|--|
| USE CASE | Request Service |
| ACTOR | Student, HoD, Faculty |
| INPUTS | Hod Approval for Student/Faculty |
| OUTPUTS | If approval is valid, select the required service and will get redirected to the payment page Else it will display error. |
| DESCRIPTION | The clients can request for various services offered by the ICT service. |

4. View Service

| | |
|-------------|---|
| USE CASE | View Service |
| ACTOR | Student, HoD, Faculty |
| DESCRIPTION | The Faculties, Students, HoD can view the services provided |

5. View Staff

| | |
|-------------|--|
| USE CASE | View Staff |
| ACTOR | Student, HoD, Faculty |
| DESCRIPTION | The Faculties, Students, HoD can view the services provided along with the staff assigned to the service if they require them. |

6. Make Payment

| | |
|-------------|--|
| USE CASE | Make payment |
| ACTOR | Student, HoD, Faculty |
| INPUTS | Account details |
| OUTPUTS | If payment is successful, it would show successfully paid Else it would show an error |
| DESCRIPTION | The service charge for the particular services can be paid by the client. |

7. Give Feedback

| | |
|-------------|--|
| USE CASE | Give Feedback |
| ACTOR | Clients |
| INPUTS | User feedback |
| OUTPUTS | Thank you for your valuable feedback |
| DESCRIPTION | The clients can give their feedbacks after getting the service done, which can be reviewed by the admin. |

8. Request for Approval

| | |
|-------------|---|
| USE CASE | Request for Approval |
| ACTOR | Student, Faculty |
| INPUTS | Request |
| OUTPUTS | If HoD approves, a message Successfully Approved will be displayed else a message rejected will be displayed. |
| DESCRIPTION | Students and Faculty can request for the approval for the service. |

9. Approve Request

| | |
|----------|-----------------------|
| USE CASE | Approve Request |
| ACTOR | Student, HoD, Faculty |

| | |
|-------------|---|
| INPUTS | Students and faculties requests for various services to HoD |
| OUTPUTS | HoD approves or reject the request based on requests made by students and faculty |
| DESCRIPTION | HoD can analysis the requests made by students and faculties HoD approves it if is required or can rejects if it is not required |

10. Set Services

| | |
|-------------|--|
| USE CASE | Set Services |
| ACTOR | ICT Dept Admin |
| INPUTS | Various Services provided |
| OUTPUTS | Displays various services provided |
| DESCRIPTION | Admin can set various services provided by ICT |

11. Assign Staff

| | |
|-------------|--|
| USE CASE | Assign Staff |
| ACTOR | ICT Dept Admin |
| INPUTS | Staff details and their specialization |
| OUTPUTS | The staff assigned for each service would be displayed. |
| DESCRIPTION | Admin can assign various staffs to various services provided by ICT Department |

12. Student Profile

| | |
|-------------|---|
| USE CASE | Student profile |
| ACTOR | Student, Hod, Faculty |
| INPUTS | Details of Student |
| OUTPUTS | Details of Students will be displayed |
| DESCRIPTION | The student's details can be accessed by students, faculty, and HOD and will be displayed |

13. Faculty Profile

| | |
|-------------|--|
| USE CASE | Faculty profile |
| ACTOR | Student, Hod, Faculty |
| INPUTS | Details of Faculty |
| OUTPUTS | Details of Faculty will be displayed |
| DESCRIPTION | The Faculty details can be accessed by faculty and HOD and will be displayed |

14. ICT Staff Profile

| | |
|-------------|--|
| USE CASE | ICT Staff profile |
| ACTOR | ICT admin,staff |
| INPUTS | Staff Details and Specialization |
| OUTPUTS | Details of staff can be viewed. |
| DESCRIPTION | The Admin/Staff will be able to view, update any staff's personal details or career records. |

15. Personal Details

| | |
|-------------|--|
| USE CASE | Personal Details |
| ACTOR | ICT Admin/Staff |
| INPUTS | Personal Details of ICT staff |
| OUTPUTS | The personal details of ICT staff will be displayed |
| DESCRIPTION | The personal details will be accessible by the ICT admin and ICT staff. The staff will be allowed to view, edit, update their corresponding personal details |

16. Career Record

| | |
|----------|-----------------------------|
| USE CASE | Career Record |
| ACTOR | ICT admin/staff |
| INPUTS | Career details of the staff |

| | |
|-------------|--|
| OUTPUTS | Career of the staff will be displayed |
| DESCRIPTION | The Admin/Staff can view, edit, update the staff's career record and will be displayed |

FUNCTIONALITIES OF ACTOR

1) ICT Department Admin :

- i) To show the services provided.
- ii) To assign staff to provide services.
- iii) To add staff to department.
- iv) Provide staff for the requested service
- v) Modify Staff details
- vi) To review the feedback sent by the client.

2) ICT Department Staff

- i) Modify Staff Details
- ii) Approach clients with the service that they have requested for.

3) HoD

- i) Can request directly to ICTS Department for services
- ii) To approve students/faculties request for service
- iii) To add faculty
- iv) To modify faculty details

4) Faculty

- i) Can request approval from HoD for the service and request the service.
- ii) Can add the details of student
- iii) Can modify the details of students and faculty
- iv) To send feedbacks about service provided

5) Student

- i) Can request approval of the HoD for the service and request the service.
- ii) To send feedback about the service provided

USER INTERFACE DESIGN CONCEPT

Login Page

LOGIN PAGE

LOGIN AS • ADMIN • STAFF • STUDENT • FACULTY • HOD

USER NAME

PASSWORD

Admin Page

ADMIN PAGE

- ADD SERVICE
- ASSIGN STAFF FOR SERVICES
- ADD / MODIFY STAFF
- VIEW FEEDBACK

Faculty Page

FACULTY PAGE .

- REQUEST FOR APPROVAL
- SEND REQUEST FOR SERVICE .
- ADD/ MODIFY STUDENT
- MODIFY FACULTY DETAILS .

Student Page

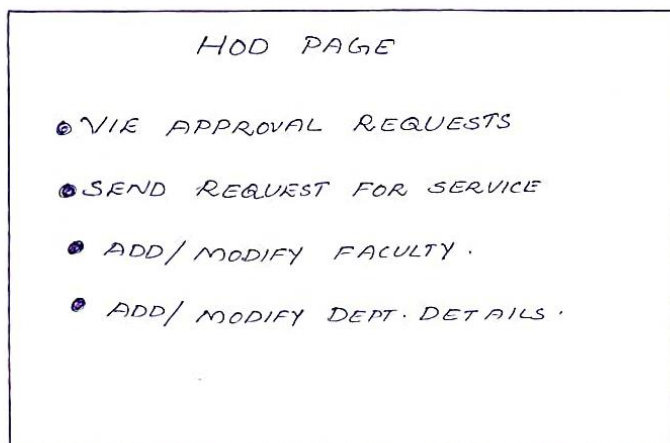
STUDENT PAGE .

- REQUEST FOR APPROVAL
- SEND REQUEST FOR SERVICE .
- MODIFY STUDENT DETAILS .

ICT Dept Staff Page



HoD Page



CLASS DIAGRAM

