University Department Information System

Software Requirement Specification

International Institute of Information Technology, Bhubaneswar

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Problem Statement

Department offices in different universities do a lot of book-keeping activities and it is necessary to develop software to automate these activities.

University Department Information System:

- Various details regarding each student such as his name, address, course registered, etc. are entered at the time he/she takes admission.
- At the beginning of every semester, students register for courses. The information system should allow the department secretary to enter data regarding student registrations. When the secretary enters the roll number of each student, the computer system should bring up a form for the corresponding student and should keep track of courses he has already completed and the courses he has back-log, etc.
- At the end of the semester, the instructors leave their grading information at the office which the secretary enters into the computer. The information system should be able to compute the grade point average for each student for the x and his cumulative point average (CGPA) and print the grade sheet for each student:
- The information system should also keep track of inventories of the Department, such as equipment, their location, furniture, etc
- The Department gets a yearly grant from the university and the Department spends it on buying equipment, books, stationery. Also, in addition to the annual grant that the Department gets from the university, it gets funds from the different consultancy services it provides to different organisations. It is necessary that the Department information system keeps track of the accounts,
- The information system should also keep track of information such as the research projects running in the Department, publications by the faculties, etc. This information is keyed in by the secretary of the Department.
- The information system should support querying the up-to-date details about every student, by inputting his roll number, It should also support querying the details of the cash book account. The output of this query should include the income, expenditure, and balance.

Functional Requirements

This section gives the list of Functional requirements which are applicable to the UDIS.

Functional Requirement	Description
FR1	Ability to Register a new student
FR2	Admin should be able to (ADMIN HAS ACCESS RIGHTS TO STUDENT TABLE)
FR2.1	Query Students Table for a particular student
FR2.2	Modify Data for every student
FR2.3	Admin Manage inventory for the department
FR2.4	Manage Financial Book for the department
FR3	The application should auto compute GradePoints for every student

Authorisation Requirements

- Admin (HOD / Secretary): Top Level Access, interface provided to add/delete students, assign faculty, add/delete inventory, add/delete financial record, modify student/faculty details.
- Faculty: Can Upload marks for subjects through the interface provided.
- Student: Can only register for courses from a setlist.

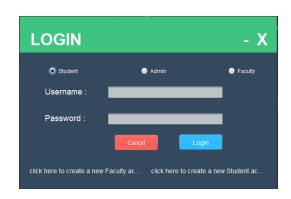
Interface Requirements

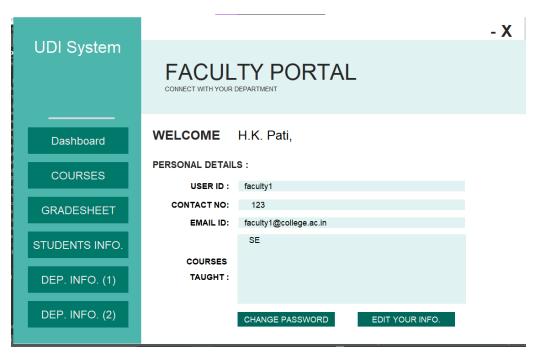
This section describes how the software interfaces with other software products or users for input or output.

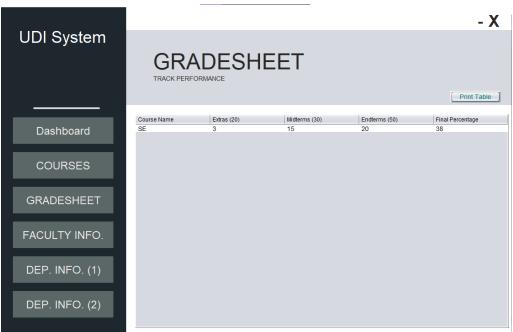
User Interfaces

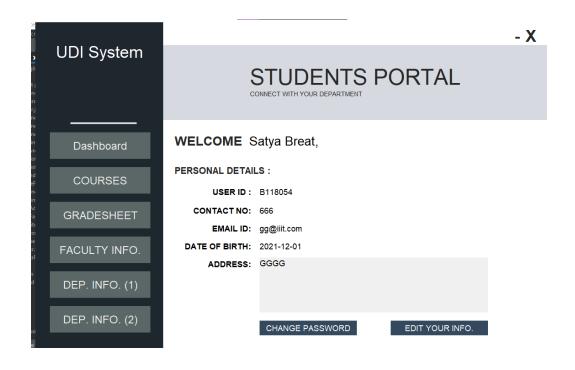
GUI:

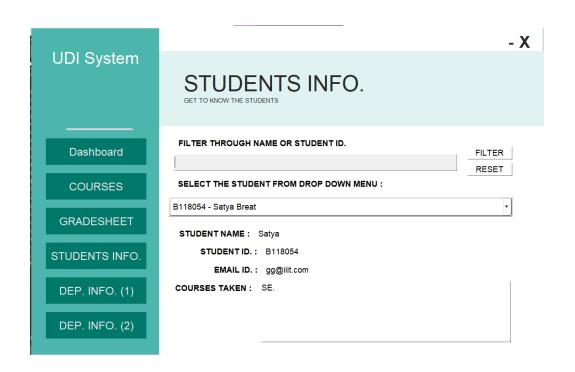
Login Page



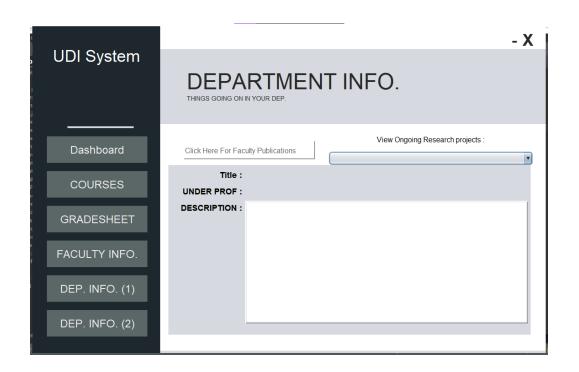












Non Functional Requirements

User Interfaces

Hardware Interfaces

• Server-Side:

Operating System: Windows 10

Processor: Pentium 3.0 GHz or higher

RAM: 256 Mb or more

Hard Drive: 10 GB or more

• Client-side:

Operating System: Windows 10.

Processor: Pentium III or 2.0 GHz or higher.

RAM: 256 Mb or more

Note: For this iteration of the software, the client-side is the same as the server-side, that is the application right now works locally. So the Student view and Teachers View is not accessible through the web. Ideally, the Java Application should be distributed to all students and teachers of the department and the login page acts as an authorisation system and the querying should be done over the internet with the server being on the local university server and its access is given to the admin/HOD/secretary.

Software Interfaces

Database: MySQL Server.

Application: ASP (Active Server Pages)

 Web Server: Database is hosted locally and has not been designed for server access.

Communications Interfaces

No Communication Interfaces are needed as the database access is local.