SUBJECT REGISTRATION SYSTEM

All data has been collated and documented by the students working on the department project -
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1.0 INTRODUCTION

The purpose of this project is to develop a working model of a software for course registration process in a university. The idea is to simplify the process of opting for courses by providing a common platform where students, teachers and administration can interact and choose required courses, without the hassle of running around or dealing with time table clashes at a later stage.

1.1 Statement of Objective

1.1.1 Problem statement

The purpose of this project is to develop a working model of a software for course registration process in a university. We do not have an online registration process for students which makes registration for students a bit confusing. The offline process is time consuming. Also, there are some technical glitches in the registration system with clashing of various courses in the timetable.

1.1.2 Objective statement

The idea is to simplify the process of opting for courses by providing a common platform where students, teachers and administration can interact and choose required courses, without the hassle of running around or dealing with time table clashes at a later stage.

1.1.3 Significance of the study

This will help us to achieve an efficient online registration system for a student from any stream without any inconvenience of clashing of timetable. Through this process the student will get to know the courses which they can take and teachers and administration will have precise information of subjects students have opted for.

2.0 EXISTING SYSTEM

2.1 Brief overview

The existing registration system follows a manual approach, i.e. the process occurs offline. The following steps are followed:

1. The subject registration form is collected from their respective mentors along with the list of subjects (Degree, Core, Open and Minors) being offered by all the departments and schools this semester.
2. The students then make their choice, fill the form accordingly and then submit it back to their mentors.
3. The mentors cross check for pre-requisite conditions, credits limit and time table clashes before submitting the final list to the head of departments.
4. The head of departments (HOD) then maintain the records in the database, and pass it onto the COE for preparing exam time table.
5. The student is now registered for the subjects for the semester, and is allowed to attend classes regularly.

2.2 Problems with the system

The problems with the existing system are-

1. The whole process is time consuming, and requires running around from one faculty to the other, in case of clashes.
2. Huge records and databases in file formats are maintained by the HODs each semester, thus using up a lot of stationary and space.
3. Traversing through file system is a time consuming and tedious process.
4. The internal work involved in floating the subjects offered, proposed time table and other documents through the academic department and various schools is a long process.
5. The student is required to be physically present in the campus during the subject shopping week.

3.0 PROPOSED SYSTEM

3.1 Brief overview

The proposed system will be hosted online, and would follow a semi-automatic approach. The following steps are involved in case of registration through this system:

1. The student will require to create a login account (only for the first time) with details such as Enrolment number, school, branch, year, address etc.
2. The student will login with the credentials listed by the software while creating a login account.
3. He/she would then have access to the list of courses offered for the semester, along with the records of their previous courses and categories fulfilled. The student can then make an informed decision based on the data provided.
4. The student submits the form through the online software to the mentor, who then cross checks it, before passing it on to the HOD for record keeping.

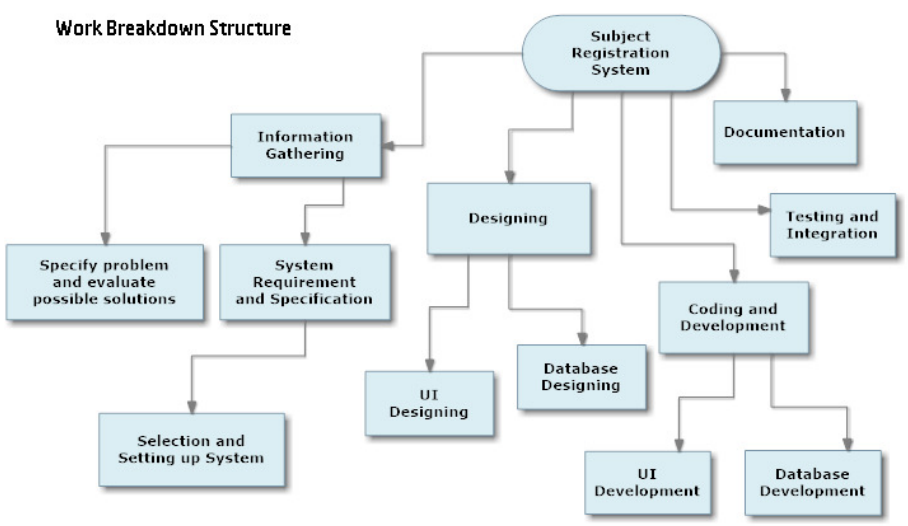
3.2 Advantages of the proposed system

The advantages of using this system are-

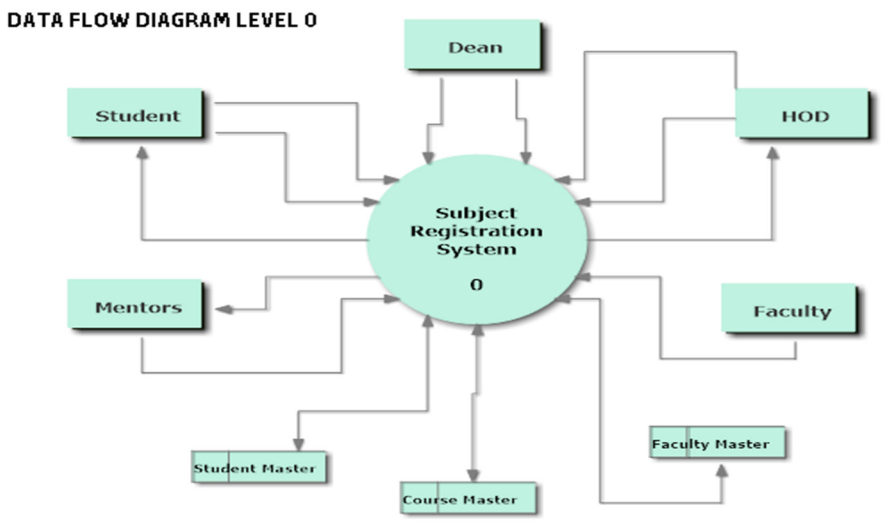
1. It is an interactive software, i.e. it facilitates the interaction between the HODs, mentors, faculties and students on a single platform.
2. It is spontaneous, and does not require much effort or time.
3. Records can be easily collected, maintained and updated centrally through databases.
4. The student need not be physically present for registration.

4.0 SYSTEM DESIGN

4.1 Work breakdown structure

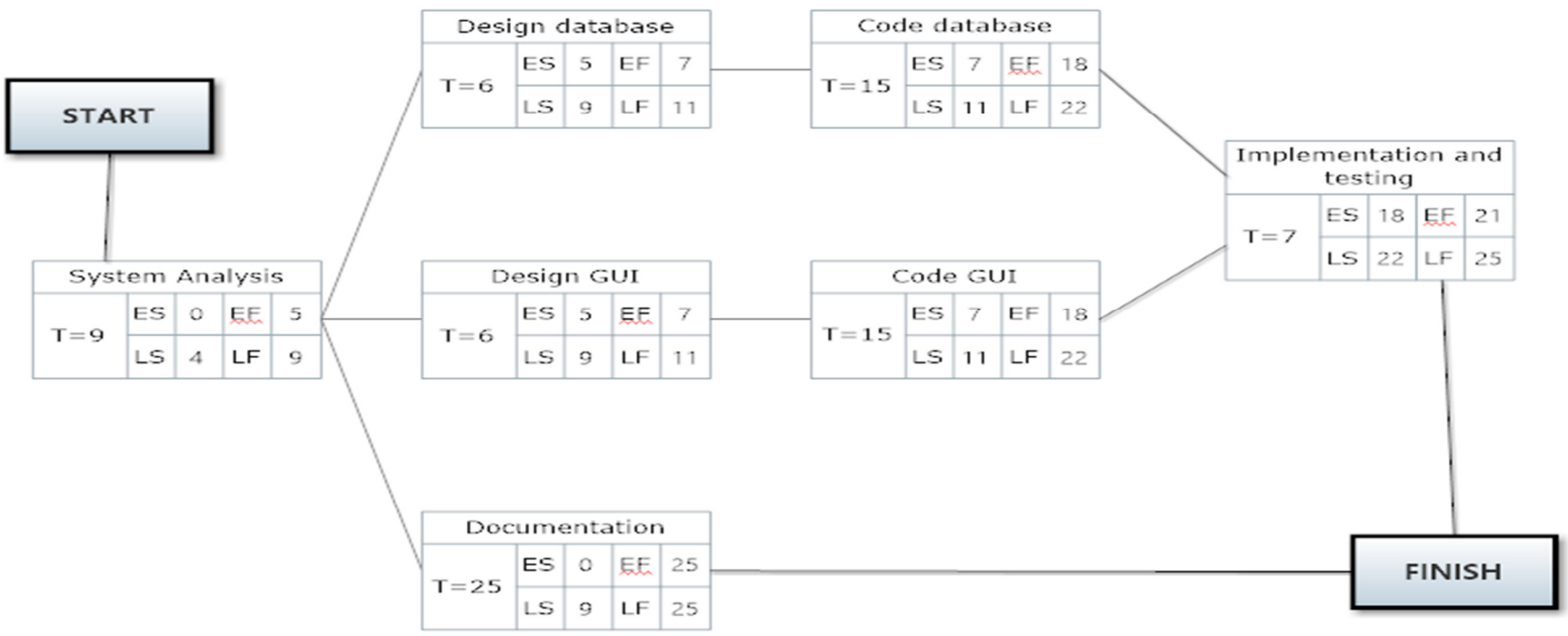


4.2 Data Flow Diagram (Level 0 context)



4.3 Gantt chart

	Task	Assigned To	Start	End	Dur	%
	Subject Registration software		9/25/15	10/31/15	25	
1	System Analysis		9/25/15	10/7/15	9	
2	Design database		10/8/15	10/10/15	2	
3	Coding for database		10/11/15	10/27/15	11	
4	Design for GUI		10/8/15	10/10/15	2	
5	Coding for GUI		10/11/15	10/27/15	11	
6	Implementation and testing		10/28/15	10/31/15	3	
7	Documentation		9/25/15	10/31/15	25	



4.4 PERT chart

5.0 Conclusion

This software will provide a secure online system for faculty to enter final semester grades for each student and maintain records in a systematic manner- add, approve, and maintain course data, including prerequisites and co-requisites, titles, descriptions. This process is simple and less time consuming for both students and administration. Huge records of registration can be maintained efficiently and effectively.

6.0 Future scope

This project will enhance short- and long-term planning by incorporating course demand data and faculty availability in the process. In the future, as major and minor degree requirements are added to the system, potential/future course demand data will enhance curriculum planning.