Discussed Project Topics

There were many projects that we considered before finalizing our project to build the college payroll system. The projects that we discussed and the reasons because of which it was discarded are listed below:

1. Do it yourself

A software solution to find ideas to make home-made crafts using the things that the user has at the home. The user is required to enlist the things or items that he has at present with him. The software would find the matching items that could be made using the list of things entered. A detailed description of the procedure to make that item would be provided.

The problems faced are:

- This project had the major part as data collection and compilation. No challenging work was involved.
- The topic of art and crafts did not interest the majority of the group members.
- There was the problem of creating modules and divisibility of work among nine members for this small project.

2. Virtualization of Physics Experiments

As we currently don't have any physics lab, we planned to build a real life like simulation program for the experiments that are in the course of Physics in the first semester.

The problems faced are:

- Real time errors would have been difficult to incorporate. What amount we would have included, it would still have been programed.
- Animation of all the experiments in a real life scenario did not seem feasible.
- Problems like the scope of the system and number of experiments to be included.

3. Online Course Materials

A software solution to facilitate the availability of the course materials of all semesters. The notes, lectures or questions could be uploaded or downloaded.

The problems faced are:

- Handling the duplicacy of the files.
- Handling viruses or corrupt files.
- Maintainence of the software
- Determination of the best file for each course.

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4. Single platform for different IDEs

We planned to make a single IDE for the students of our college which would contain all the IDEs that we have used till now, like logisim, jflap, LC3 etc. By selecting the type of tool needed, the user could use the explicit features of that tool. Downloading different tools for different courses would not be necessary.

The problems faced are:

- The doubt whether different tools would be compatible enought to process under the same roof.
- Different tools have different requirements, often clashing with each other. Handling that kind of clashes would require specific knowledge of all the tools that was to be incoporated.

5. Taking attendance of class by clicking a photograph

- This project include huge number of concepts of image processing and it is still a topic of research.
- Also a major part of machine learning is incorporated in this project, which include taking images of a person individually through different angles, also like, beard, non-beard, iddentifying the same person in a group photograph.
- Limitation of technical resources and time, eg, a professional photography camera, huge data space to create database and store information.
- Maintainablity issues because only a person with complete skill set of server handling and image processing, can maintain this dynamic database.

6. E-campus

- A major part of this project, which include a discussion forum and file sharing is done by some of grooup members in previous projects.
- -IIITV management is also not interested in this idea as moodle is installed in the server and do all the work in a more efficient and reliable manner what our software application is supposed to do.

7. Carrier Predictor

- In this project, we are supposed to contact different industries and gather information about their expectation and requirments regarding the skill set of the employees depending on thier job.

Problems:

- Major issue is collection of huge amount of data from various industries which is a very tedious and time consuming process.
- Also other than data collection and matching it from the user input there is not so much scope

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for further development.

8. Hostel and mess management

- Existing software system exists which is developed by students and used by management for registration of students as well as allocation of rooms in hostels. Therefore, making a discussion forum or greviance form is no a work of a team of 9 members.
- Also, some of the basic functionalities of Mess which we are thinking to digitalize is not approved by mess committee as it would create a chaotic situation.

ninEngineers 03