Date: 3/08/2011 Time: 8:09pm-9:36pm

The Prof. Ortiz has asked use to find problems that could be solved using software therefore I have the following:

**Problem 1 (Parallel ISP)**

I'm not sure how to approach this problem but I believe there must be a way. Mainly in Puerto Rico we have very slow internet connections compared to what is offered in the US, also Puerto Rico does not have much to offer in reference to Internet Service Providers (ISPs). Usually our choices are Cable, DSL modem (phone line) or mobile (3G/4G). In general they are not fast enough for some users and or the connection is shared with other users (you can find this problem in households with a big family or in dorms). Personally I have two ISPs, one is Cable (Choice) and the other is mobile (Spring 3G AirCard). I would like to connect both at the same time on the same computer where I can simply run a software that will turn it into a 'parallel ISP'. This comes in handy in situations where I need to download a big file but I also want to search the web or watch streamed videos or hear streamed music or just play video games online. The idea is not do duplicate my internet speed but to give priority to my bandwidth consumption.

Example :

Let's say the software works and I have both my ISPs working in parallel. Now I need to download a file that is about 6 GB in size but at the same time while I wait for my download to finish I want to watch a show on Hulu.com or search some videos on youtube.com.

Dilemma:

A possible dilemma if I don't have my ISPs working in parallel is that my bandwidth will drop and it's not fast enough I would have to buffer my video for a very long time, which eventually will not be worth the wait and will delay my download progress.

If dilemma was solved:

Thanks to the fact that my connection is parallel I can chose witch one I want to use to watch a my show and which should be used for downloading the file or I can have the program decide for me (options the software should have). This will save my time sense I can enjoy it watching a show instead of waiting for it to download.

**\*Problem 2 (Data cleaner and organizer)**

Now in days we have a lot of space in our Hard Drive Disks (HDD) that we tend to over flowed it with lots of data, data that can be unorganized or repeated. This can be a big problem because we would have some files taking space and we may not know it, sometimes the mess of files is just too much to bother with. There are many software related to cleaning your PC but none related to cleaning and organizing your PC's data. We need a program that can do what other programs do but we would also want it to keep certain file types in an specific folder mainly music, videos, picture and others, giving the user the option to customize the organizing feature.

**Problem 3 (Online Book marketplace)**

For book readers it can be hard to keep updated with all the books out there, books that may be related to your 'taste' and related to the author. In today's world we no longer need to go to a book store and buy a book we have e-readers in the market such as Amazon Kindle, [Barnes and Noble NookColor](http://www.pcworld.com/product/712240/barnes_and_noble_nookcolor.html?p=review), [Kobo eReader](http://www.pcworld.com/product/508553/kobo_ereader.html?p=review), ect. Not only we have e-readers we also have pads/tablets such as the Mac's iPad and Samsung's Galaxy which use LED screens. One big problem is we have lots of different systems and some use special formats but it can be difficult to find the book you want with all the different markets in the format supported on your system. In addition to the previous problem I find it hard to find books related to what I like, I end up manually searching for books that I may like but not sure if I should buy, if there was a demo of the book then that would help

Date: 3/16/2011 Time: 2:59pm-3:36pm

**Place/Location**: PUPR -3rd floor of building L - Capstone room

**Task Description:**

Today our main goal we will be discussing about the group name and logo. In are previous class we have decided in solving the problem 2 in our previous. This problem is related to mypoly enrollment web site and the problems it causes University's students, who will try and two decomposes problem in several smaller problems.

As we start our meeting Francisco came up with the name of Raypi Software, "lighting fast and precisely calculated serves to calculated the customer's needs". We all agreed that it sounded like a good idea, but we decided to find the Greek translation for lightning and pi instead and turned out to be Astrapi. We all agreed Astrapi technology was a perfect candidate for our group name.

Next we decided to go for decomposing of the general problems with mypoly over said decided to lists. Notice that I have used \* to represent those things that I contributed in.

Decomposing General problems with mypoli:

* *Parking payment and validation* - the enrollment site does not have an option for the students to pay for parking, in which the students have to go to the university to solve this problem.
* *Medical plan validation* - currently the university requires you to validate your medical plan, the only way to do this is to the university with your medical plan.
* \**Fail to validate payment options* (scholarships and loans) - although the web site lets you register courses it does not let the student pay unless the students chooses to pay with a credit card or ATM. This means the student would have to go to CECI so they can validate their payment.
* \*Fail to validate course from taken courses - in several occasions the website has failed to validate some previous courses correctly, a personal example is when trying to enroll for microprocessors and that its lab the website kept saying that I failed to meet a pre-requisite, which was logic circuits and I had taken that course last trimester width an A. This forced me to go directly to the university to solve this problem.
* \*The course search-engine requires to be very specific with searched for course (Cap sensitive, no use of like parameters) - this problem occurred to me the first time I've tried to use the site and even the second time. When trying to search for courses using course code that kept returning error, after almost losing hope I tried entering the course code with all camps and to my surprise I actually got the search results.
* The system fails to update course status - apparently the server does not update as frequently as I thought. Some of the problems can be seen under the seats column where it is suppose to represents the amount of seats left, sometimes it would say that the course is full when it's actually not. Also when courses are dropped because of the lack of students the web site will show these courses as if they were the available.
* Should offer special topic and electives - but the server does not show the option to enroll in special topic courses. Also there some elective courses that are not available in all trimesters, most of them require the students to set a list so that they can open the course, there should be an option where you can see and vote for these courses online.
* Courses need to have a full description - it would be good to have the full description of the courses a student were to enroll in, it will give the students an idea of what to expect in the course and if the book for this course is in the description then the students can purchase it in the time.

After decomposing our problem we decided to talk about group problems and what could go wrong. This is important because we could face a situation in the future and not know how to address it. Also it's a good way to keep all members clear to what would happen under the situation. So I decided to create a list for this and after we discuss the worst case scenarios it turned out to be more of the group's rules and policies.

Group problems and what could go wrong:

1. \*If a member cannot assist to the reunion try to communicate and others should find a task or work for that member and update that member of what was discussed in that reunion.
2. \*If two member cannot assist to the reunion then ether cancel it or try to find an alternative way, such as Skype, ooVoo, ect. meeting
3. Data backups and organization in case information is lost we will use drop box to keep all data distributed for each member and each member will keep another back on their PC (Juaquin).applies
4. If we are in disagreement with something, we will vote democratically

(poll system).

1. If a member of the group withdraws from the course or does not present himself in maximum of 5 reunion without reasonable excuses, this include medical excuse or at least to contact a member of the group to show interest, then the remaining member will distribute the members work or task.
2. \*If a member is not working or not doing his work/job correctly this member will be warned and a task less challenging will assigned. If this member continues to this behavior then the group will be forced to discuss further action, this includes but not limited to removing this member from the group.

policy

**Materials and used equipment:**

1) HP Pavilion dv6-2066dx Entertainment Notebook

2) HP Pavilion dv7-2173cl Entertainment Notebook

3) Acer Aspire 5334-2153 ($299.00)

4) Toshiba Satellite L555

**Topics to be discussed:**

In our next meeting we will be discussing our group logo, software name and logo, and we will be discussing about the SRS's requirements (functional and restrictive).

Date: 3/21/2011 Time: 2:59pm-3:36pm

**Place/Location**: PUPR -3rd floor of building L - Capstone room

**Task Description:**

We started with deciding the logo for our group which is the following:



Design by me with the help of each member.

We decided in several names for are software which Francisco has listed and are correctly pending for next meeting. Also we discussed the logo and currently need to design it.

Working with the SRS

Scope:

What the software will do:

* should generate all courses the student has not taken and can enroll for the next trimester in an organized format.

what the software will NOT dot:

**Materials and used equipment:**

1) HP Pavilion dv6-2066dx Entertainment Notebook

2) HP Pavilion dv7-2173cl Entertainment Notebook

3) Acer Aspire 5334-2153 ($299.00)

4) Toshiba Satellite L555

**Topics to be discussed:**

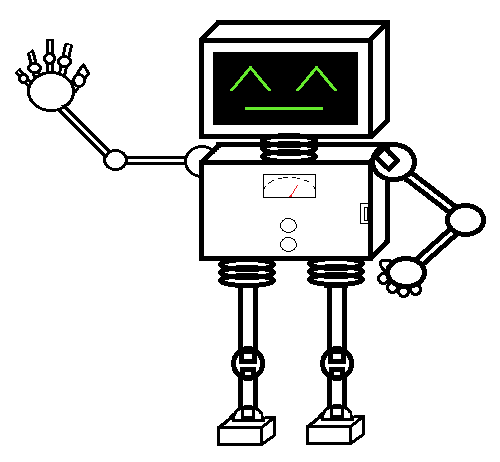
In our next meeting we will be discussing our group logo, software name and logo, and we will be discussing about the SRS's requirements (functional and restrictive).

Date: 3/22/2011 Time: 2:59pm-3:36pm

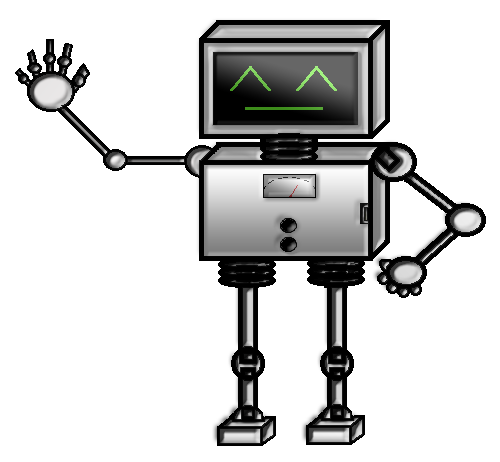
**Place/Location**: Home

**Task Description:**

Today I was working on the software logo using Photo Shop CS3 and Paint. When using paint I design a robot, there was no real motive just that I had already drawn one at one point and tough that it would go well as the software logo, so once the drawing was done I had the following:



Sense this was a bit plain I then move this drawing to photo shop in order to enhance the design. Adding some Photo Shop magic which I had learned on my own time I came up with the following design:



Now it looks more lifelike, a lot better the before but I felt like we needed to add something to relate it more to the Group or software so I consulted my team members for ideas.

Date: 3/23/2011 Time: 2:59pm-3:36pm

**Place/Location**: PUPR -3rd floor of building L - Capstone room

**Task Description:**

We started with deciding the name of our product. I have de list the names with the name of the person decided in several names for are software.

1) Astra Enroller (Emanuel)

2) Click and Enroll (Francisco)

3) Witty Enroller (Gabriel)

4) Easy Enroller (Francisco)

5) Auto Enroller (Juaquin)

6) Logic Enroller (Juaquin)

We decided to vote for 5 of the mention above. Astra Enroller, Witty Enroller, Easy Enroller, Click and Enroll, A Enroller and Auto Enroller where voted democratically via poll voting system. the result of the is the following:

|  |  |
| --- | --- |
| **Names** | **Poll Results** |
| Astra Enroller | 24 |
| Click and Enroll | 16 |
| Witty Enroller | 13 |
| Auto Enroller | 5 |
| Easy Enroller | 12 |
| A Enroller | 2 |

Since Astra Enroller receive the highest score in the poll, this will be our product name. Also we discussed the logo and currently need to design it.

Working with the SRS

Scope:

What the software will do:

* should generate all courses the student has not taken and can enroll for the

next trimester in an organized format.

what the software will NOT dot:

**Materials and used equipment:**

1) HP Pavilion dv6-2066dx Entertainment Notebook

2) HP Pavilion dv7-2173cl Entertainment Notebook

3) Acer Aspire 5334-2153 ($299.00)

4) Toshiba Satellite L555

**Topics to be discussed:**

In our next meeting we will be discussing our group logo, software name and logo, and we will be discussing about the SRS's requirements (functional and restrictive).

Date: 3/26/2011 Time: 2:59pm-3:36pm

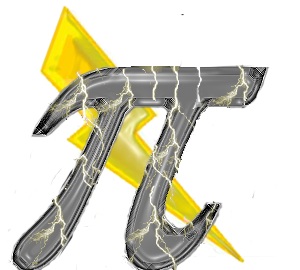
**Place/Location**: home

**Task Description:**

To continue the group logo I had received some credits of which were much appreciated. Joaquin asked me if there was a way to make the lightning bolt more diagonal. I liked the idea and so I Implemented it. there and the I liked how it was turning out but I thought it still needed something extra so I decided to use the following effect to be wrap around my final design:

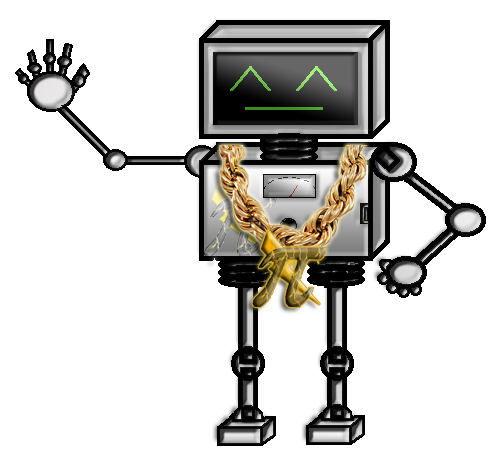


Again using some Photo Shop magic I image to wrap this around our logo. I had to use multiple copies of this image in order to do so. this took a bit of time to make and then we had our logo. I was very confident that everyone would be more then pleased to have it as our logo after all I did dedicate a lot of time on it. So far this would be our logo:



Date: 3/29/2011 Time: 2:59pm-3:36pm

Today I decided to finish the Software's logo. Again using Photo Shop I decided to add some new effects. The current logo is a bit plain so I ask my group for ideas. We diced that our software logo could change from time to time, but mainly it would be the simple robot. example when if it is Winter our logo could use some Holyday cheer such as a Santa hat. In this case we were joking around with some ideas and came up with the following:



We called it Astra-Enroller (Bling-Bling) logo. We thought it looked cool and had a bit of hummer, something that can make the user feel good when logging in. Using a gold chain and the Astrapi logo hanging was Francisco's idea, I just implemented it using a real image of a gold chain and some Photo Shop magic. Again when I say Photo Shop magic I really mean the skills I have learn using Photo Shop which provides tools that notice many people would notice it had. This was the main reason I decided to design the logos for our group, but I made sure that everyone was satisfied and believe I have achieved that.

Also today I crated the document for the SRS on Google Documents. We had all agreed that this was a wise choice sense it will let us all edit the same document at the same time. In addition I suggested this because on previous group projects I had problems with members sending their work to me on time and if I had access to it could edit or finish it on my own time instead of waiting for them to send their work.

Date: 3/04/2011 Time: 2:59pm-3:36pm

Today we decided to divide the work for the SRS sense we notice that we were running out of time. This would be our 6th meeting located on the 3rd floor of L Capstone room. Emanuel had brought a list of sections and we each selected what we wanted to do depending of the difficulty. In this case Joaquin and I were going to work on section 2 overall descriptions.

Date: 5/26/2011 Time: 4:04pm-4:24pm

Do to the all the work I had for this trimester it has been difficult to keep track of my logs. There were times where I had to stay up late working on the SRS document. Precisely on April 13, 2011 I was up until 8:00am working on the SRS, I was assigned to manage this document and organize before dead line. Do to various inconvenience with other courses such as VHDL I had to sacrifice time to keep up with all my courses. April 19 was the presentation day, before then I was working on the document the entire weekend on the section 2.1 in order to update the user cases of which our document depended on. at the same time I was getting ready for the presentation an my VHDL exam with a Monster can in hand.

After the presentation we where assign several documents, I was assigned to manage the SMPS with Francisco. As we attempted to work on this document we where overloaded with work from other courses of which were very time consuming. it was only until May 10th, 2011 where Francisco and I could divide the work between us and Luis. Once that was done we all could work on the document our selves which brings me to today.

Today where after staying awake until 8am in the Polytechnic University of PR campus work on the SMPS, we are still struggling to finish in time. My failed attempt to convince Prof. Ortiz to extend the documents dead line simply maid madders worst. we are to proud of our work and have dedicated time to insure quality which consumes time. Currently working on the presentation with Joaquin and Emanuel before our VHDL Final test.