**TERM PROJECT DESCRIPTION**

**I - Differents steps for the GantProjet**

1- **Planning of differents tasks**: Determine the resources, timing and any constraints. Create a Gantt chart for the schedule. Assign tasks to the resources.

Ex: Enumerated all the courses needed, list of the rooms available, make the exception (hours without class like club hours)

**Deliverable: GANTT chart, a description of the project**

**Duration: 3 days**

2- **Systems Analysis and Requirement**s: Determine the needs of the users, interview stakeholders. Create a list of requirements for accomplishing the project and a Data Flow Diagram of the processes. There will be two opportunities to interview the stakeholders.

The need of the users: (mike email: mikerobinsonshow@gmail.com )

We should ask mike: use him as our user.

Interview stakeholders:

What questions do we need for stakeholders?

**List of requirements:**

We must know the need of the users:

We need all the CSC classes. We need room numbers.

We know the time that the classes take place and the meeting date

interviews :

Data Flow Diagram of the processes:

**Deliverable: Data Flow Diagram (Context, Level 0 and Level 1)**

**Duration: 4 days**

3- **System Design**: Detailed design of the system. Create a prototype of input/output interfaces, Entity-Relationship Diagram and Use case diagram

**Deliverable: Entity-Relationship Diagram and Use case diagram**

**Duration: 14 days**

4- **Development**: Creation of programs and any other elements needed for the project. The project will use the XAMP stack as its development environment.

**Deliverable: User interface(s), Database dictionary**

**Duration: 21 days**

**5-** **Testing**: Creation of sample dataset, to test the system.

**Deliverable: Sample test data**

**Duration: 3 days**

**6-** **Implementation**: Complete testing and post the system on the common web site.

**Deliverable: Source code with comments, database schema.**

**Duration: 14 days**

**Project description**

**Project title and overview**: The purpose of this project is to write a program that going to schedule automatically sections of courses of a Computer Science Major of a college or university over a week. The schedule entails assigning a room, time and meeting day to each section of a course in that department.

**Purpose and need:** The purpose why we are doing this project is to help departments in the college, university to solve and make easier their scheduling problem classes. An observation has been made that some colleges were scheduling classes manually on paper. With this project, we are trying to build a solution to solve that problem.

**Implementation method:** To implement this project, we are going to start with the realization of the Gantt chart while we are writing a project description. The next thing will be the dataflow diagram. Then we will continue with the system analyzing and requirements. It means we are going to list all the requirements that our system will need for the well functioning of our project. The design of the system will follow and the development where we will use our knowledge on PHP, HTML to write the code our application will need to run. Finally, the implementation and testing will constitute the final step of our project.

**Timeline:** Every task defining above has a dateline and a description of what we are expecting to be done on each task. We can find that description in the Gantt chart.

**Expected outcomes:** Once we will finish this project, we will test all modules together and make sure that they are working perfectly and satisfying the needs of the customer. It also in this part that we will be identifying the limit of what we did and try to fix everything before submitting it to the client.

3- **System Design**:

For the design of the project, it will respect the following description. It still can be modified at any time.

A- The input information screen will have the following field:

* The name of the institution where the students are registering: In this case BMCC; we can just display that on the top of the form
* A message to welcome the students and let them know what there are here for. Eg: Welcome! You are in this site to register for classes
* Put a field where to enter the class to search, it should be a drop-down option where all the classes are entered through the program
* Another one where you the searcher has to enter a course number. It should be a text value to specify the exact course number
* Try to add an option to show only open classes( eg: Select \* from coursesection where course =’101’)
* All should be on a white color background mix with the blue to represent BMCC’ color
* After clicking the submit button, the program will show a video(not this for now)
* Check if we can search by instructor last name (sql query: Select \* from course section where instructor name =’.............’)
* See if we can out an option where after selecting one class, then the program asks the student if he wants to stay on the program or choose another one (if he wants to search again have to be on the form)
* Choose if you wanna have your classes with an adjunct or faculty( sql query: Select \* from coursesection where instructorprofessor =’.............’)