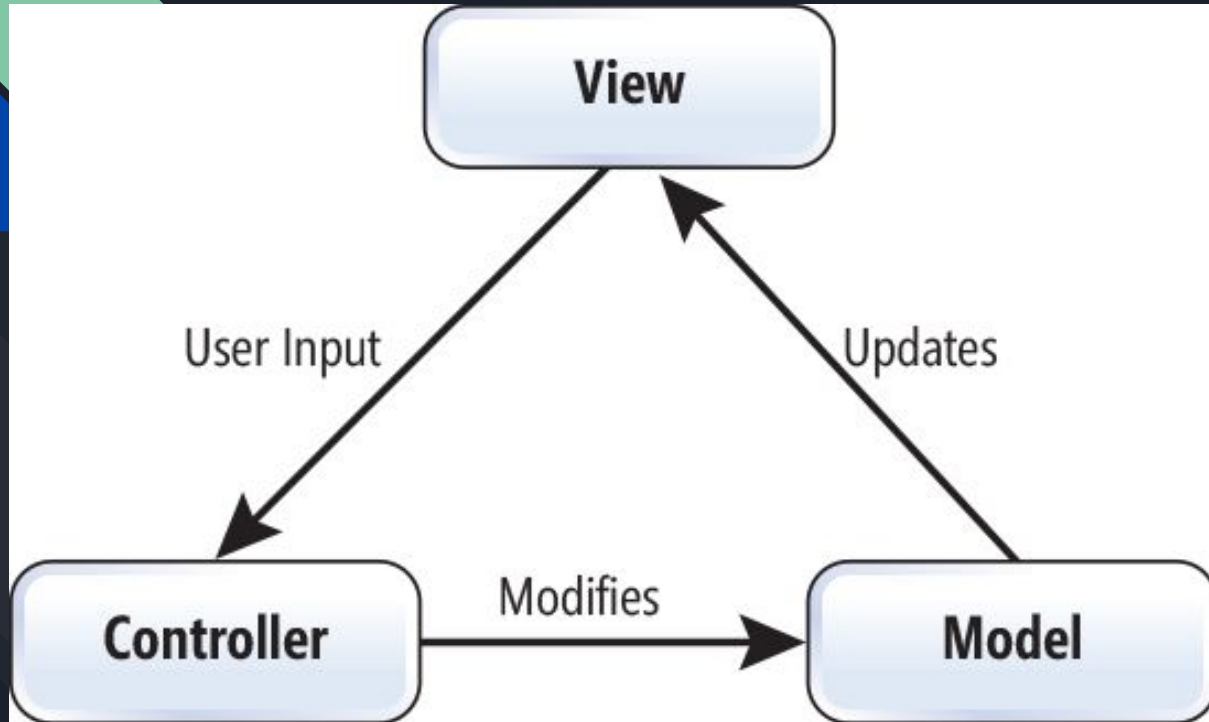# What is MVC?

-It's a software design pattern commonly used for developing user interfaces which divides the related program logic into three interconnected elements.

-This is done to separate internal representations of information from the ways information is presented to and accepted from the user.

-Following the MVC architectural pattern decouples these major components allowing for code reuse and parallel development.

-Popular programming languages like JavaScript, Python, Ruby, PHP, Java, C#, and Swift have MVC frameworks that are used for web or mobile application development straight out of the box.

MVC Pattern

What we've learned

-MVC is a pattern or way to organize your files, which is commonly used for developing user interfaces.

-MVC allows for code reuse and parallel development. It also makes easier to find errors or programs in the project.

-MVC stands for Model-View-Controller. Under this pattern, projects are organized in these three major components. The Model is the central component of the pattern. It manages the data and logic of the application. The View component is the visual aspect of the webpage, for example tables or diagrams. The Controller like the name implies, allows the user to control the application. It accepts inputs.

- .htaccess is a configuration file for Apache which allows you to make configuration changes on a per-directory basis.

Difficulties arisen

-Difficulty conceptualizing the project and figuring out the best way to implementing the concepts.

-Some difficulties figuring out how the design of the Website should be like.

-Difficulty in knowing how to connect the proper view with the proper controller.

-Difficulty in understanding how to combine Object-Oriented Programming with the MVC pattern.

-Difficulty in connecting the right view with the right controller, especially when editing or deleting items.

Overcoming difficulties

-Watching the tutorial provided helped us clarify a lot of our doubts.

-Communication played a fundamental role in us figuring out how we would work in the project.

-Learning from our classmates helped us understand better how to implement the MVC model.

-Having patience and researching a lot was crucial for the development of the Project.

Task distribution

-For this project, we have distributed the tasks in this manner:

❖ Mutual Tasks:
● Both of us were responsible for reading and understanding the project description well.
● Both were responsible to communicate to each other our latest advances in the project.
● Both were responsible for researching and understanding the MVC design pattern

❖ Alfonso :
● Work in the FrontEnd of the project:
● Working in the Main design of the website.
● Working in the Control Panel for the project.
● Working in the Panel used for Creating Posts.
● Working in the Documentation and Presentation for the Project.

❖ Prattya:
● Work in the BackEnd of the project.
● Work with PHP to communicate with the DataBases.
● Create the DataBases using MySQL.
● Implementing the MVC pattern into the Project.

FrontEnd Implementation

- For the FrontEnd, we created 3 main sections:

1. The basic design of the Blog, which contains, for example:
   -The sections that contain the post title, date of publishing, author and keywords
   -Are text area section that allows users to comment or delete.

2. A panel for creating Posts, which contains, for example:
   -A space to write the title of the article, name of the author, keywords, date, and a text area to write.
   -Buttons to choose if you want to publish or draft your post.

3. Control Panel, which contains, for example:
   -Login/Logout button
   -Buttons for creating or listing categories
   -Buttons for creating or listing posts.

Implementation

For the FrontEnd section, the following sections were created:

- The basic template where all the posts created will appear, which contains for example:

-Spaces to place the title of the post, name of the author, edit/delete categories and posts.

- The Control Panel, which allows users to:
-Login/Logout, Create and List Categories, Create and List Posts.

- A section for creating Posts:
-This section allows users to write the Title of the Post, write the name of the Author, write the Category of the post, Keywords, Date and decide whether they want to draft or publish the post.

Implementation

Implementation

Conclusions

-The MVC pattern is very useful for designing websites.

-MVC allows for code reuse, which is very useful for scaling the project.

-Php is well-suited programming language for working with Databases.

-MySQL is the most popular standard database management system, and with it you can create websites where users are able to store information and manipulate it. Some of the most important websites like Facebook or Twitter use MySQL.

-To be the most productive, it is imperative to keep communicating with your teammates.