

## **Language Choosing PHP**

Integrates with HTML & JavaScript

Wild use

Easy to Learn

**Database Communication** 

Good for starter

#### **GitHub**

1. Version Control

2. Work in different computers remotely and synchronize



THE PERSON

dn1111 authored 15 hours ago



resource bar, leave library

dn1111 authored 17 hours ago



preparing for db connection

System Administrator authored 17 hours ago



Merge branch 'master' of https://github.com/nl1010/webapp

nl1010 authored 17 hours ago



let's online

nl1010 authored 17 hours ago



library soul income

dn1111 authored 17 hours ago



wall, library, gateway, memory leak

dn1111 authored 17 hours ago



message display when login just WORKINGgit add -A

System Administrator authored a day ago



Message display v1,nice nice nice

System Administrator authored a day ago





everything works fine for login now ,except player's position, not s

System Administrator authored a day ago



everthing works, forget add soul

System Administrator authored a day ago



major bug fixed ,nearly

System Administrator authored a day ago



halfway rest

System Administrator authored a day ago



Merge branch 'master' of https://github.com/nl1010/webapp

System Administrator authored a day ago



die scene, event texts, start buildings

dn1111 authored a day ago

#### Our aims

- We might not have enough time to make a large detailed map and storvline.
- So, basic functions of the game
  - Movement
  - O Resource Gathering
  - Constructions
  - Fighting System



#### The Game - Overall

- Very small map
- Basic Fourway movement
- Basic resource gathering
- Basic building system
- Need tech/buildings/units
- Battle system

#### Interactions - Save/Load

- We added some little things to the story: time and space in the Island is distorted.
- Only save the resources and location. Monsters will respawn

### Message System - (in develop)

- Theme of the game: depressing hopeless
- So we want to create a system to 'bring' players together.
- Placing 'shared' Messages on the Ground

## Implementation Overview

- The Game
- Separation of the actual game code and the assets (map, sprites)
- Separation of the game components and scenes.
- The game engine helps a lot in this scheme

### Implementation Overview

- Database/Server



## Database/Server - languages Client Http + Javascript (incl. jQuery, Ajax) Server PHP Database SQL

## Implementation Overview -Other Techniques In Database/Server

#### JQuery and Ajax

Super convenience for both

JS<-> HTML & JS<->PHP

Json (JavaScript Object Notation

Make life easy

encode query result --send-to--> JS/PHP decode

#### Sessions

PHP<--->PHP

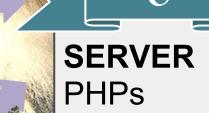
#### Cookies

share data JS<---->PHP

reduce communication times with server & database

## Database/Server MVC structure

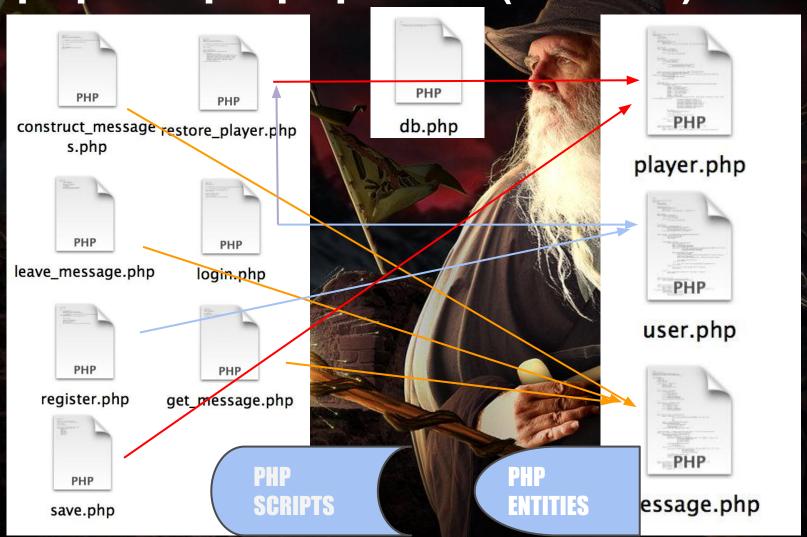
CLIENT HTML, Javascript



 $\mathcal{M}$ 

**Database** postgresDB

# SERVER STRUCTURE php script+php class(entities)



#### DATABASE STRUCTURE

3 main tables currently:

table\_register:

server the registration and login request

table\_player:

server the game player's resources

table\_message:

server the message system which makes player can share experience on the game

AND MORE...

# Database & Server structure Advantages

- 1. Easy to read and debug
- 2. Easy to get understand the logic
- 3. Easy to implement new things and new Feature
- 4. Make structure nice and tidy

## Main Feature 1.Registration

**CLIENT**register.html —
with javascripts

check validity,ok

**SERVER** 

OK!

registe .php

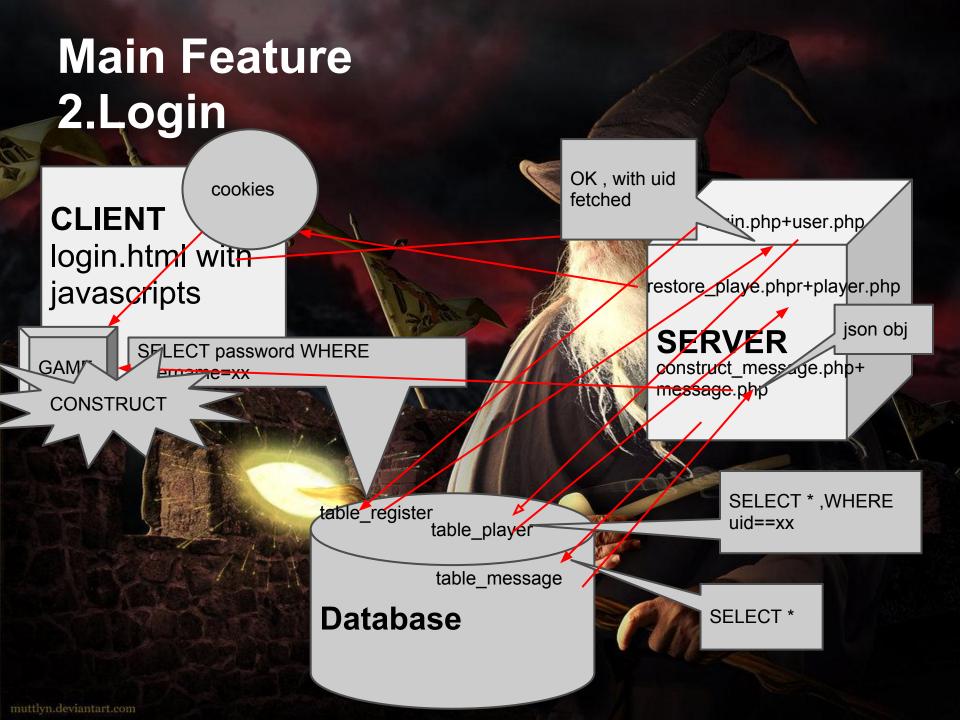
SELECT username and check existence

table\_register

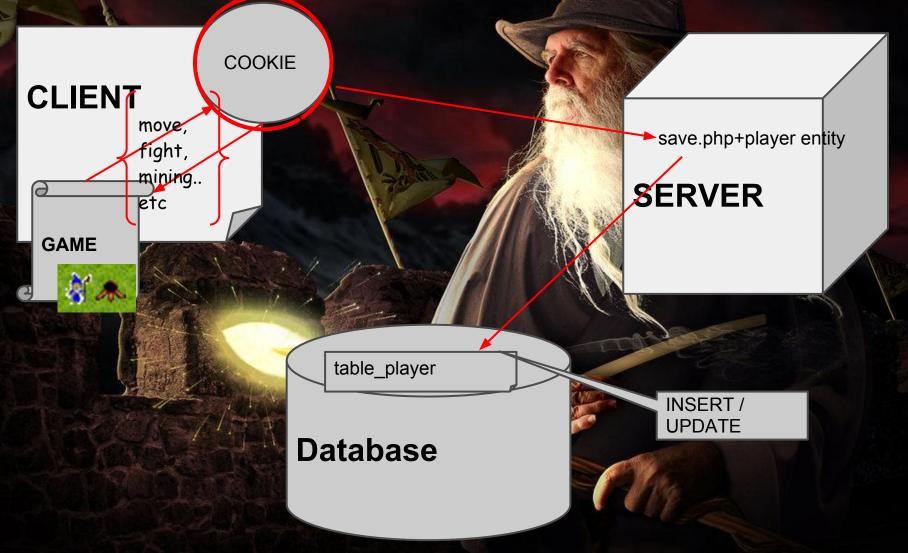
**Database** 

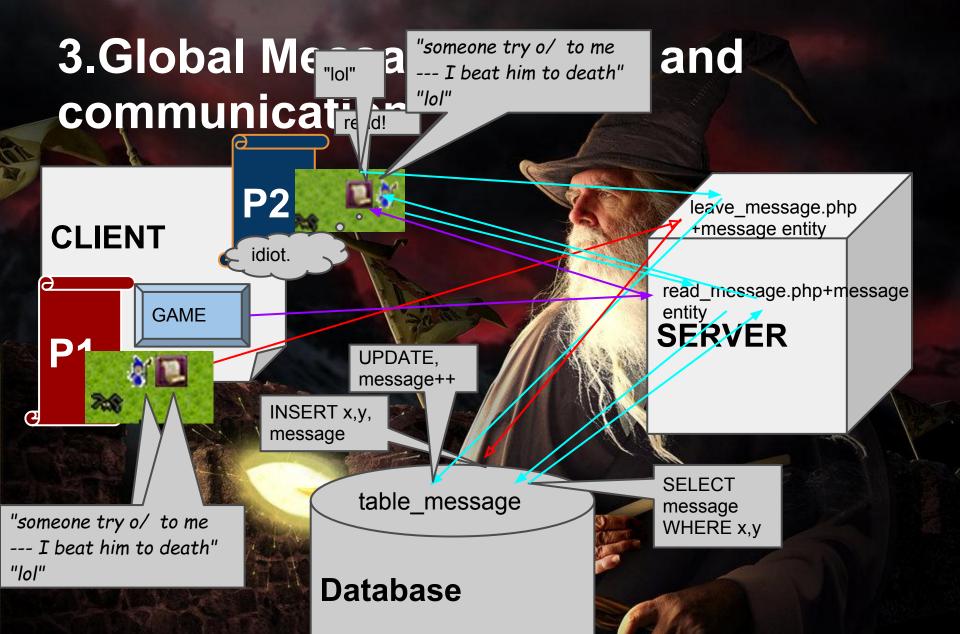
unique user\_id generated and stored in the same row

INSERT username and password



### Gaming data & Saving system





### What we've accomplished

- The core features:
  - Basic interactions
  - A frame to work on later
- With some interesting feature (to work on):
  - Hidden events (traps)
  - Messaging System

#### What's left to do

- Class System. Importing equipments
- Player Summoning System. For trading and PvP.
- Units/Items/Spells.
- Complete Building/Tech Trees.
- Monster variation.
- Better UI/Graphics/Sounds
- Make the game actually fun to play.
- Larger and complex map with war fog
- Storyline, quests, missions

### Some experiences

- Using open source tools (game engines) can gain you access to the community's wisdom. Especially when you are learning the language.
- There are sites that contain free sprites you can use.
- Set up the server as soon as you start.

