

Game Party Finder

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I. Introduction

Many modern video games emphasize teamwork and cooperative gameplay, typically through online matchmaking. Many games, however, lack built-in features to help players find suitable teammates. While online matchmaking can successfully pair a player up with other players, it is usually done randomly or fails to properly match people up given a player's skill level or role in the video game. This issue can create a significant challenge for players who might struggle to find reliable partners for cooperative experiences. For example, *Marvel Rivals* is a competitive multiplayer video game that involves two teams of six players, each player choosing a hero or villain to fulfill a role on their team. While *Marvel Rivals* has a matchmaking system that takes into account player skill level, many players still take issue with their pairing, such as some players not filling roles required to succeed. Another issue that players might face with randomized matchmaking is the potential to have their teammate being toxic or not taking the game seriously, hindering the rest of the team and ruining the match and overall experience. While social media or gaming forums exist that can be used to find compatible teammates, they rely on others to be active on the forums around the same, which is not always a reliable alternative to native matchmaking.

Game Party Finder is a website that will combat this issue with finding compatible teammates. It is a dedicated platform designed to help players connect with others through a structured filtering and search system. Users can create or join parties based on their own preferences, in a way that is easy and efficient to use. The goal of *Game Party Finder* is to

provide a solution to an underlying problem with online matchmaking found in video games to make them more enjoyable for everyone.

II. Game Party Finder Description

A. Key Features and Capabilities

Our software allows individuals who are playing team games to find others playing the same game. What is so unique about our software is that it would be one of the first softwares dedicated to helping gamers find groups for their games. It'll do this by filtering individuals that are looking for groups by game, region/language, and other filters that may be specific to that game such as rank, role, and platform.

B. Major Components

Because the product will be a browser based service, the hardware requirements for users is any device that has a web browser. To build the product, hardware required is our development hardware and server hardware. The software components are the IDE and browser, as well as a Windows operating system. The product is a web application that will be created using server side PHP and JavaScript, a MySQL Database, and a mix of HTML, CSS, and JavaScript for the frontend, possibly via React.

The software components of the application will be the ability to register user accounts, the matchmaking system that will allow users to find party members to play with, as well as sorting and filtering system to allow users to look for other players on the same game, platform, and region they are in.

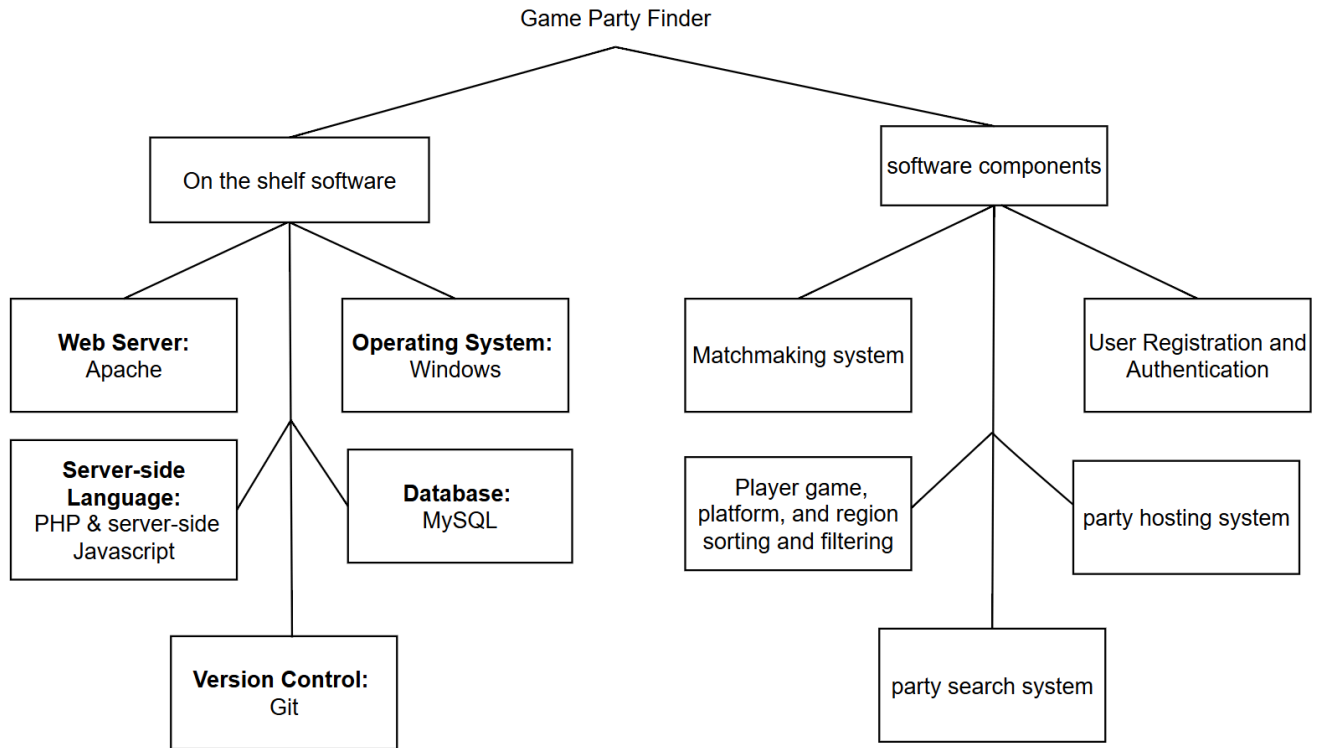


Fig 1. Major Functional Components Diagram

III. Use Case and End User

Our website is aimed at gamers who either want to get the most out of working together in a team focused game, avoid the variance of queuing with random players, or just want to meet a new group of people to play with. Whatever the player wants to get out of joining a party, they are likely to find a party that meets their expectations and allows them to get the most enjoyment out of whatever game they want to party up in. Our goal is to allow gamers to find a safe, reliable place to meet new people, accomplish their gaming goals, and overall have a good time.

IV. Glossary

Matchmaking: The process of pairing players together in multiplayer games

Party: Players grouped together before matchmaking

Platform: The hardware you play a game on, such as, *PlayStation*, *Xbox*, PC, and *Nintendo Switch*

Toxic: A mean or otherwise very unpleasant player or behavior