



# PartyUp!

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# Team Bio

Elijah Joaquim:

Elijah Joaquim is a Computer Science major at Old Dominion University. He likes to read fantasy novels and play games in his free time. In the future, he wants to help work on and design video games.



Keyton Lanier:

He is a Computer Science Major that loves to play games and would like to try to make some games in the future.



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# Team Bio Cont.

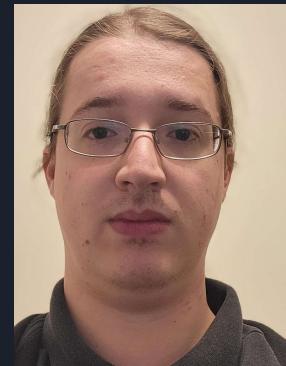
Jon Fisher:

Jon Fisher is a senior at Old Dominion University majoring in Computer Science and minoring in I.T.. He enjoys to play video games, play the piano, and draw.



Joshua Renn:

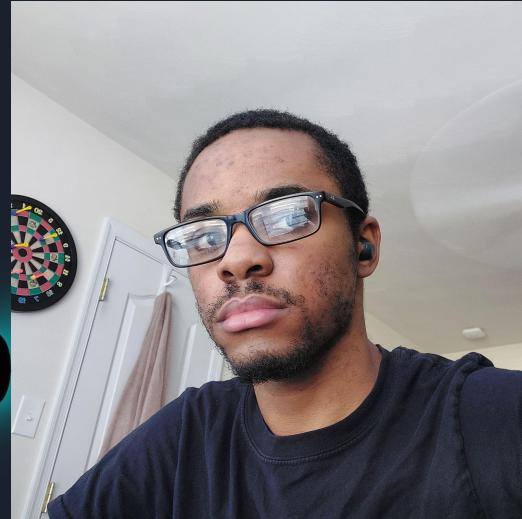
Joshua Renn is a Senior at Old Dominion University majoring in Computer Science. He currently works in the public school system in the Tech department. In his free time, he builds terrariums and enjoys some gaming.



## Team Bio Cont..

Jaylen Davis:

Jaylen is a senior in Computer Science at Old Dominion University. He likes to write stories, play video games, and draw



# Introduction

- About 3.2 billion people play video games worldwide
- The gaming industry is worth about \$230 billion
- About 75% of *Twitch*'s most watched games are team-based multiplayer games



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- *Marvel Rivals* averages about 150 thousand live players
- *Tom Clancy's: Rainbow Six Siege* averages about 60 thousand live players

# Problem Statement

Many games encourage teamwork, but don't offer a looking for group feature; or, if they have one, it is inadequate. This leads players to get into teams where they have conflicting goals, attitudes, or playstyles leading to an unpleasant experience. Our website would help connect players based on what game they're playing and what features they're looking for in a party.



Looking For Group > tags >				
TOP	LATEST	BLIZZ TRACKER	DEV TRACKER	
Topic	Author	Replies	Views	Activity
Looking for Sniper	ShinyHero	1	13	12h
Older dude looking for duo	CFR	7	122	6d
Looking for friendly players (EU)	lljazzil	0	23	8d
Skins disappeared from hero gallery	MorganaDrago	0	13	9d
Looking to play for fun and good laughs	chiller76	0	25	11d
Looking for a group/duo	Azurey	0	31	13d
Looking for friends with mics	Spoopy4u	4	121	18d
Looking for a team of 5	qLangiu	1	28	18d
Looking for a team	Noctaris	0	17	18d

# Problem Characteristics

- Some gamers complain about playing with randoms and would prefer to know who or what kind of player they are playing with.
- Gamers struggle to find other players to play cooperative games with, for example, team games where a certain role isn't filled due to no one wanting to play it.
- Players struggle to find other players to help them overcome a challenge in a video game
- Sites like *Reddit* offer communities that have the option to ask for help or look for party members, but finding partners is completely dependent on someone feeling like responding to a post.

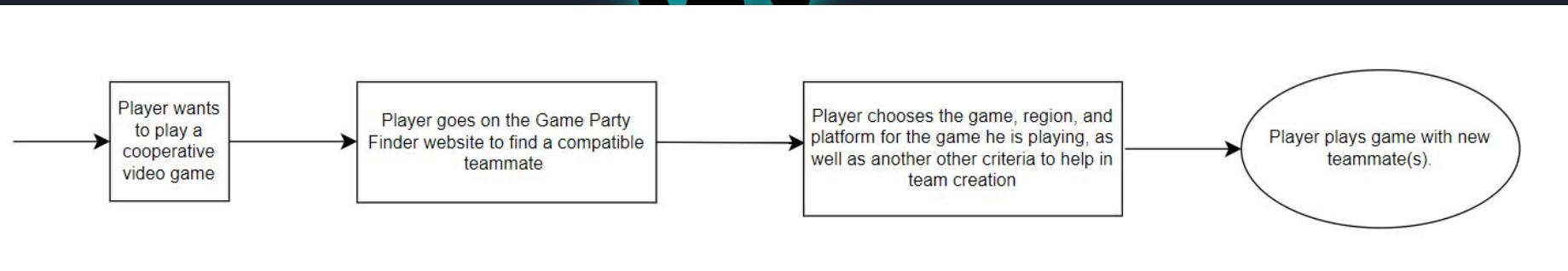
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# Current Process Flow



# Solution Process Flow



# PartyUp!

# Solution Statement

Our *PartyUp!* website will give gamers a place where they can quickly and easily search for and create parties that meet their needs and interests for a specific game.



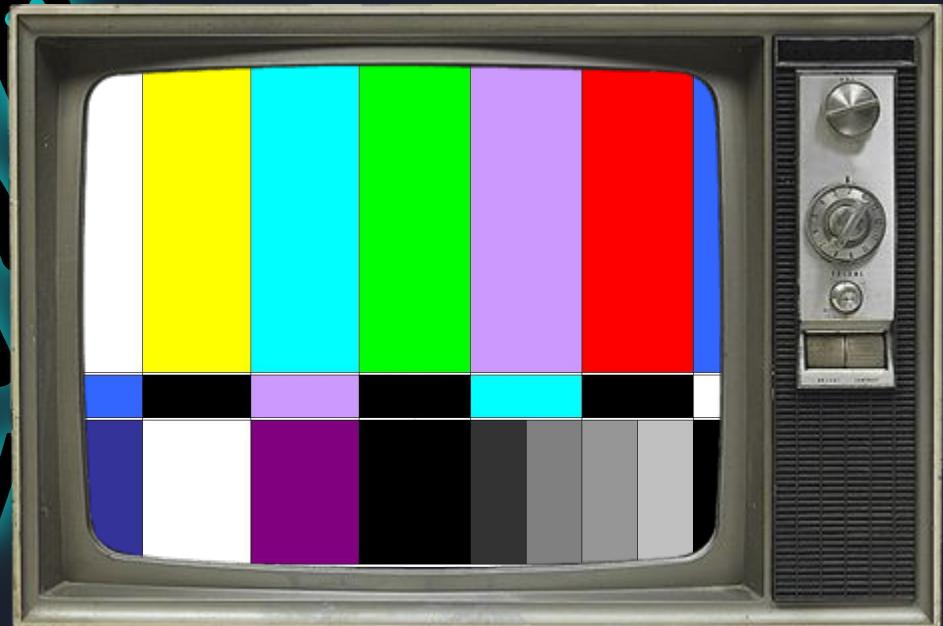
# What It Will Do



- Sort parties by game, platform, region, roles needed, and date/time scheduled
- Allow players to create and host parties
- Allow players to look for and join parties
- Filter parties based on game criteria to help with team creation
- Allow users to interact with communities and post their own content on dedicated game community pages

# What It Won't Do

- It won't assign random parties
- It won't play games for you
- No AI or bot posts
- Won't support every game
- Install or run games
- Join the in-game party
- Auto friend your party members





# reddit

## Potential Competition

Features	Game Finder	Reddit	Forums	Discord
Find Other Players	■	■	■	■
Host and Join Parties	■	■	■	■
Filters based on player interests	■	■	■	■
Dedicated to Gaming	■	■	■	■
Community Pages	■	■	■	■



# DISCORD

# Work Breakdown



## Party Creation

- Select party specifications e.g. Game, Platform, Region, Role needed, etc.
- Posting
- Member moderation
- Chat

## Party Searching/Joining

- Player game, region, ect. filter system
- Apply to join a party with a brief message

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## Account Creation

- Username
- Password
- E-mail
- Authentication (RWP)

# Work Breakdown



## Account Management

- Login
- Premium, add-free version (RWP)
- Profile picture
- Bio

## Community Pages

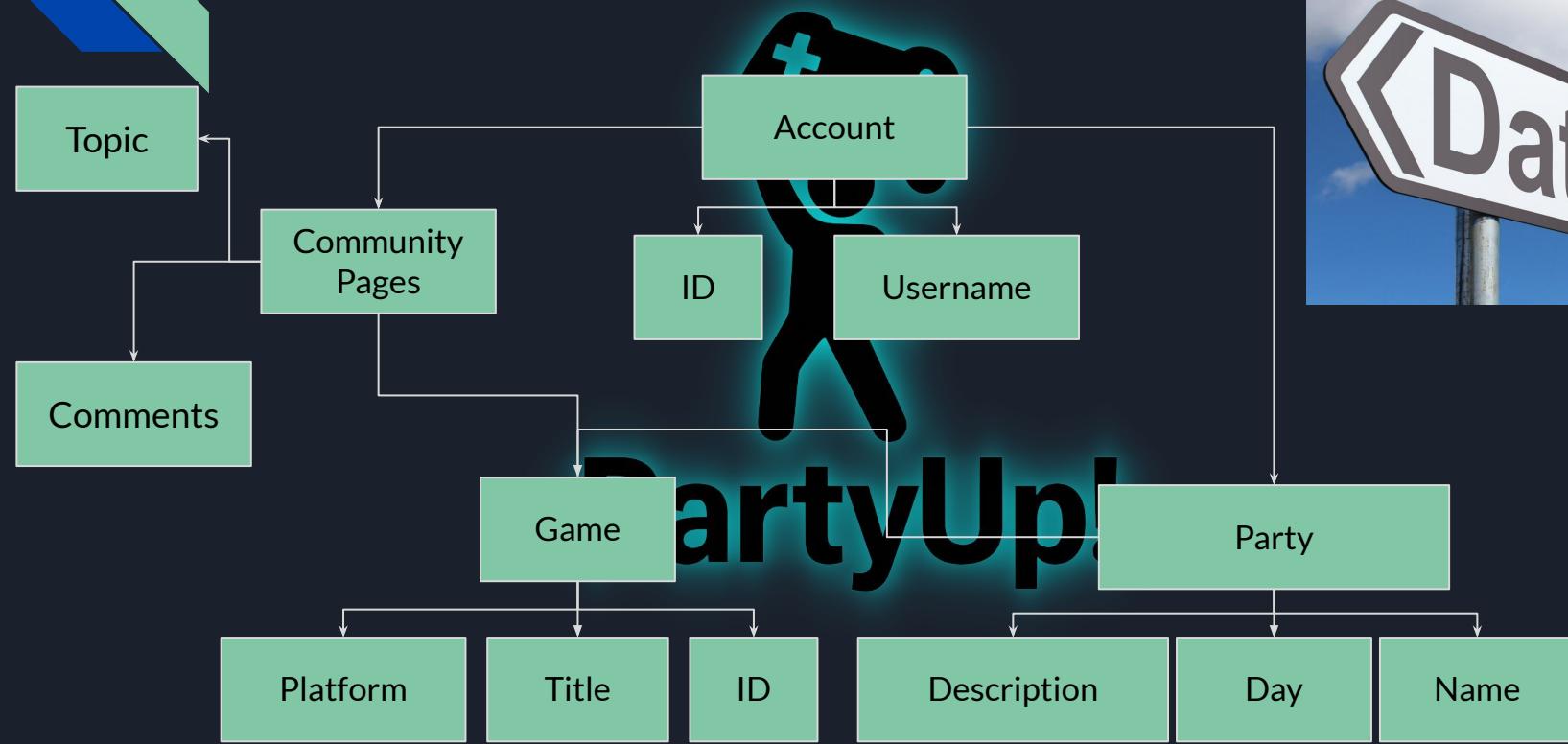
- Game specific communities
- User created posts and comment threads

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## Database management:

- User account databases
- Databases for each platform + region and games
- A database for community pages

# Database Schema



# RWP vs Prototype

Prototype	Real World Product
Account Creation Profile Management	Account Creation Profile Management Premium, Ad-Free Add-On 2fa
Party Search Party Filters Game Platform Region Role	Search & Filter Game Platform Language Region Role Voice Chat Preference
Party Creation Party Joining Community Pages	Party Creation Party Joining Community Pages

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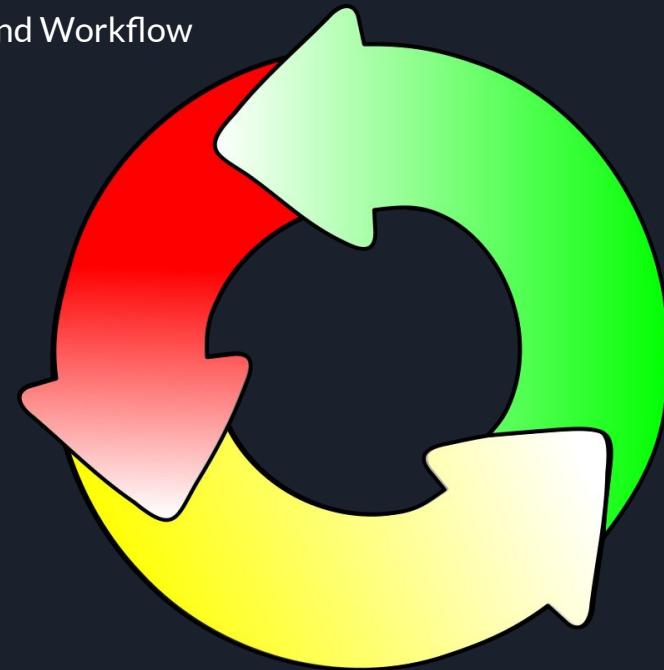


# Development Tools

- IDE: VSCode, Eclipse
- Version Control: Git
- Continuous Development and Deployment: Github Actions and Workflow
- API Language: Node.js with JavaScript
- Frontend Language: HTML + CSS + JavaScript (React)
- Testing Framework: Integration tests, Jest
- Documentation Tool: JSDoc, etc.



Visual Studio Code





# Required Libraries, Tools, & Technologies (Dependencies)

- Languages: HTML, CSS, JavaScript
- Frameworks: React, Vite
- Other Tools and Technologies: MySQL, AWS or other cloud hosting services.



# Major Functional Components

OS: Windows

Web Server: Express

Database: MySQL

API: Node.js with JavaScript



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0100000 01101101 0110010  
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110 00110000 00110000  
100101 01110010 0111001  
01100001 01101110 00000  
00 00100000 01100011  
00 00100000 01100011  
01001 01101111 011011  
01110101 01101111

# Major Functional Components Diagram (MFCD)



# Risks

## Customer & End User Risks:

- Potential teammates may still present toxic behavior
- User might not be able to find a compatible teammate at that time

## Technical Risks:

- Website can face unexpected downtime and maintenance periods

## Security Risks:

- Data breaches can possibly happen leaking user information including payment method if the user buys the no-advertisement package



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# Monetization

- The PartyUp! subscription
- There would be no advertisements

A screenshot of an auction house interface showing a list of items for sale. The columns include Item Type, Name, Bid, and Buyout. One item listed is "Star Ruby (2) Very Long" by "Bridelice".

Item	Name	Bid	Buyout
I	Very Long	Zhongren	500 0 0
I	Very Long	Zhongren	600 13 12
I	Very Long	Zhongren	600 13 12
I	Very Long	Zhongren	800 13 12
I	Very Long	Zhongren	800 13 12
I	Very Long	Zhongren	800 13 12
I	Very Long	Zhongren	800 13 12
I	Very Long	Zhongren	800 13 12
I	Very Long	Zhongren	1000 0 0
I	Very Long	Miara	1800 40 0



**Xcam**

The world's most annoying popup ads

[www.valleyofthegeeks.com](http://www.valleyofthegeeks.com)



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<https://www.investopedia.com/global-video-game-market-could-double-in-10-years-report-says-8712136>

# Appendix



Live players: The number of people actively playing a game at a particular time

Looking for group: A feature in multiplayer games where people find teammates before matchmaking

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*

Randoms: Players randomly matched by the matchmaker, particularly low skilled players

Toxic: A mean or otherwise very unpleasant player or behavior