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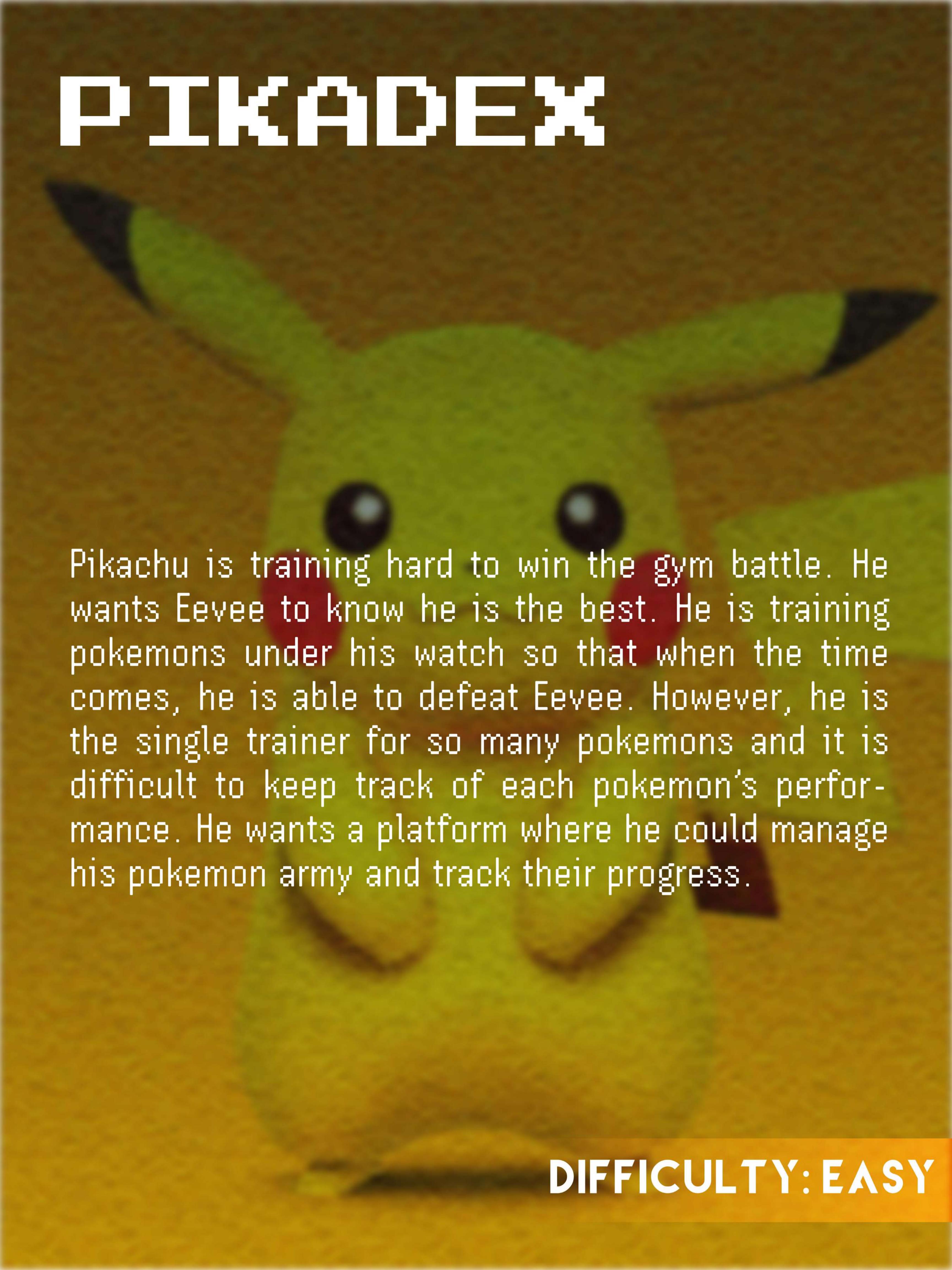


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# RULES

- You can use any language of your choice.
- Use of CMS (like Joomla, WordPress, etc.) is not allowed.
- Use of GitHub is also encouraged.
- Use of templates is not allowed.
- Use of plugins is encouraged.
- Please try to use APIs as much as possible.
- You can make the project in teams (of max 3 members), no branch restriction.
- Partial projects will also be considered for evaluation, but please try to complete the project as much as possible.
- Team members CANNOT be from the different year.
- Simplicity and elegance are encouraged for the front-end design.
- The judging criteria will be:
  1. Maximum focus on backend design
  2. Code organization
  3. Database organization
  4. Scalability of the project
  5. Mobile Browser Compatibility
  6. Documentation (proper comments)
- The use of libraries such as Bootstrap and jQuery are encouraged.
- If the project work is found to be plagiarized, then it would lead to immediate disqualification.
- These features are just to guide you regarding building final product. You can add your own features and change existing ones as well.
- Creativity will be awarded more.

# PIKADEX



Pikachu is training hard to win the gym battle. He wants Eevee to know he is the best. He is training pokemons under his watch so that when the time comes, he is able to defeat Eevee. However, he is the single trainer for so many pokemons and it is difficult to keep track of each pokemon's performance. He wants a platform where he could manage his pokemon army and track their progress.

**DIFFICULTY: EASY**

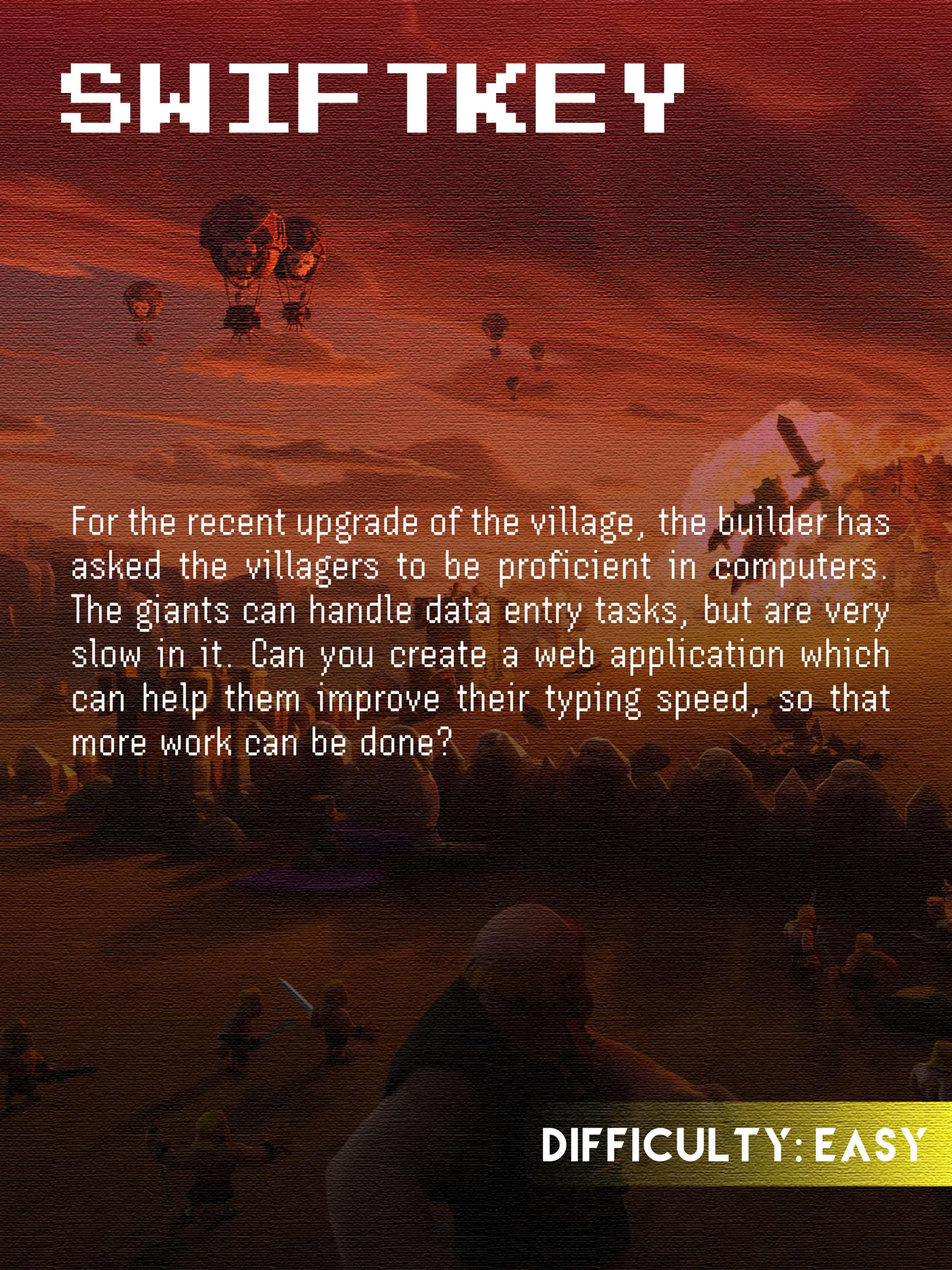
# BASIC

- User login/signup.
- Create, update, delete tasks.
- Feature to add small notes with each task.
- Each task has a deadline, desktop notification at certain intervals when the deadline approaches.
- Sort tasks according to deadline, date created, estimated time to complete etc.
- Display the progress/productivity visually through graphs.

# ADVANCED

- Login/signup from google, facebook etc.
- Follow users to see their productivity rates.
- Make groups for group work.
- Feature to assign tasks to a certain group members, assignment request goes to the member as a notification, member accepts it and then task is assigned to him.
- Show progress report for a team.
- Chat feature amongst groups.

# SHIFTKEY

A dark, atmospheric scene featuring a group of giant, weathered hands emerging from the shadows. They are gathered around a single computer keyboard, which is brightly lit from below, casting a glow on their rough, calloused palms. The background is a deep, smoky orange, suggesting either a sunset or a fire. The overall mood is mysterious and slightly foreboding.

For the recent upgrade of the village, the builder has asked the villagers to be proficient in computers. The giants can handle data entry tasks, but are very slow in it. Can you create a web application which can help them improve their typing speed, so that more work can be done?

**DIFFICULTY: EASY**

## BASIC

- User login/signup
- Handle the guest (user without login)
- User can practice on a random paragraph or customize his lesson (eg. only small letters, including capital, including punctuation etc.)
- Display the keyboard highlighting key to press
- User can decide the time duration of the lesson
- Calculate the net and gross words per minute WPM for each lesson
- Track the progress of the user

## ADVANCED

- Implement a scoring system based on weekly test or assignment
- Dictation audio exercises
- Implement lessons w.r.t. Key sets for new users
- Daily and weekly ranks according to speed

# GG-SPACE



With the upcoming FIFA World Cup and Champions League the players are very tired with the practice and want some rest but also they want to know what's happening in the e-sports world. Help them to solve this problem.

Rakuten

DIFFICULTY: EASY

# BASIC

- User login/signup
- Calendar & time table for various matches
- Pages of the official clubs/teams
- Admin users who control the contents of their concerned club or group
- Discuss section where game-play tips/news can be found
- Search option for trivia
- Profile of E-sport players showing stats of his/her career
- Reminder Feature to get information about an upcoming match

# ADVANCED

- OAuth from google, facebook etc.
- Graph showing performance of a player
- Active Page/Section to show live stats/score of ongoing matches
- Feature to support team/player
- A prediction feature ,where it can predict which team will win in an upcoming match

# COMPLAINT BOX

Crew has an impostor. They need to complete the tasks before the impostor is successful in his motives. To Help them complete the task efficiently crewmates need something that can efficiently speed up the process. Help them out!!

DIFFICULTY: EASY

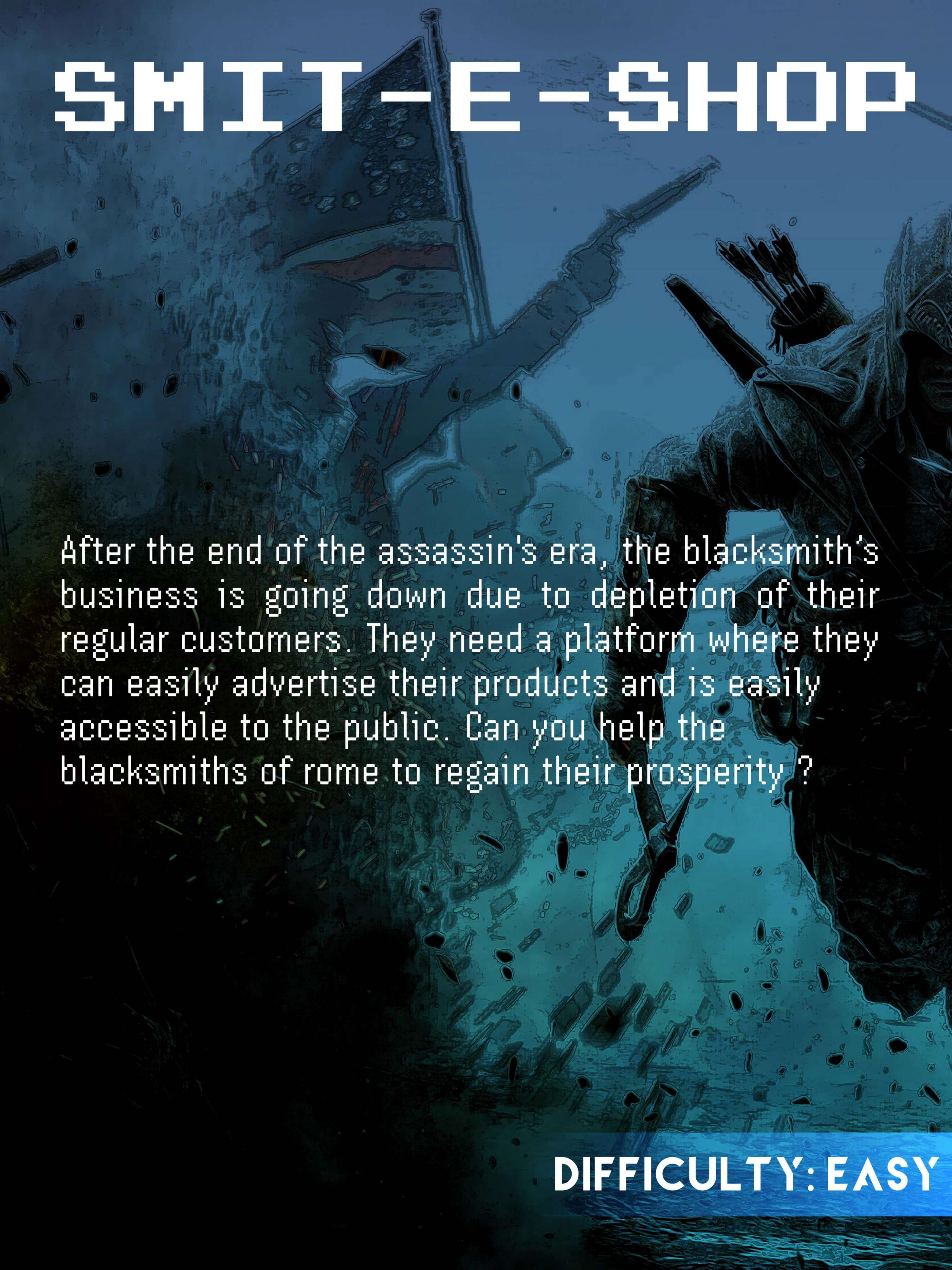
## **BASIC**

- User login/signup
- Various user profiles (residents, electrician etc.)
- Standard & Custom complaints
- Add/Update/Delete complaints
- Complaints can be assigned to users for resolving by the admin
- Rating on complaints by the resolve work done on them

## **ADVANCED**

- OAuth from google, facebook etc.
- Sending email notifications for complaint status
- Comments on complaints for discussions
- Payment integration for personal complaints

# SMIT-E-SHOP



After the end of the assassin's era, the blacksmith's business is going down due to depletion of their regular customers. They need a platform where they can easily advertise their products and is easily accessible to the public. Can you help the blacksmiths of rome to regain their prosperity ?

**DIFFICULTY: EASY**

## BASIC

- User login/signup
- Users can have a hybrid profile, where they can add their shop and browse items.
- User dashboard where they can add shops/items to their watchlist
- User can search, rate and comment about shops and items
- User can browse/order/rent/rate from shops
- Implement user cart and checkout options
- Separate sections according to different categories
- Report shop/items

## ADVANCED

- Users can view different stats for a product
- Search filters according to various parameters
- Details listing of product or shops (images / videos)
- Integrate a payment gateway

# KONNEKT

Villagers of minecraft like other civilisation evolved and now wants to interact with each other in the new fashion. Help them build a platform where they can “connect” with each other.

DIFFICULTY: MEDIUM

## BASIC

- User login/signup
- Create, retrieve, update and delete blog posts
- Like/dislike feature for posts
- User dashboard with his details and update features
- Follow other users and their activities
- Assign tags to posts and filter posts accordingly
- Create public & private groups
- Group discoverability feature (simply based on user's interest)
- Report user/post feature reviewed by admin

## ADVANCED

- OAuth from Google, Facebook accounts etc.
- Groups have different hierarchies/roles
- Functionality to create channels in the group
- Restrict the activities of users within a group according to their assigned roles
- Feature to have nested comment on blogs
- Public shareable link for private group's post
- Advanced group discoverability feature (based on liked posts, tags, friends, groups etc.)

# MUSIXON

Dastan is bestowed upon the power to control passage of time, but with great power comes great risk. Using his power too much led him to leap into the present era where he discovers new interest in music . Build him an application, so that he can dive deep into the musical world.

**DIFFICULTY: MEDIUM**

# **BASIC**

- User login/signup
- Implement music player with functionalities
- Options to shuffle, repeat queue and repeat current song
- User can shuffle the playing queue and add or remove a song in it
- Artist profile tagged to song they sung
- Search the songs by their title, artists or genre
- Song history of a user
- Users can like a song
- Users can make private playlist where they can add songs

# **ADVANCED**

- Login/signup from google, facebook etc.
- Users can share playlist with other users
- Recommend songs to the user according to his followed artists and genres
- Implement an equalizer with the player
- Sync the lyrics of the song with the line playing

# MAZTRIXX

Yorha Unit 9S has been given a task to infiltrate into a hostile machine network to support 2B. He's got only one shot therefore he has to "intercept" the connection. To make it count he has to practise a lot.

DIFFICULTY: MEDIUM

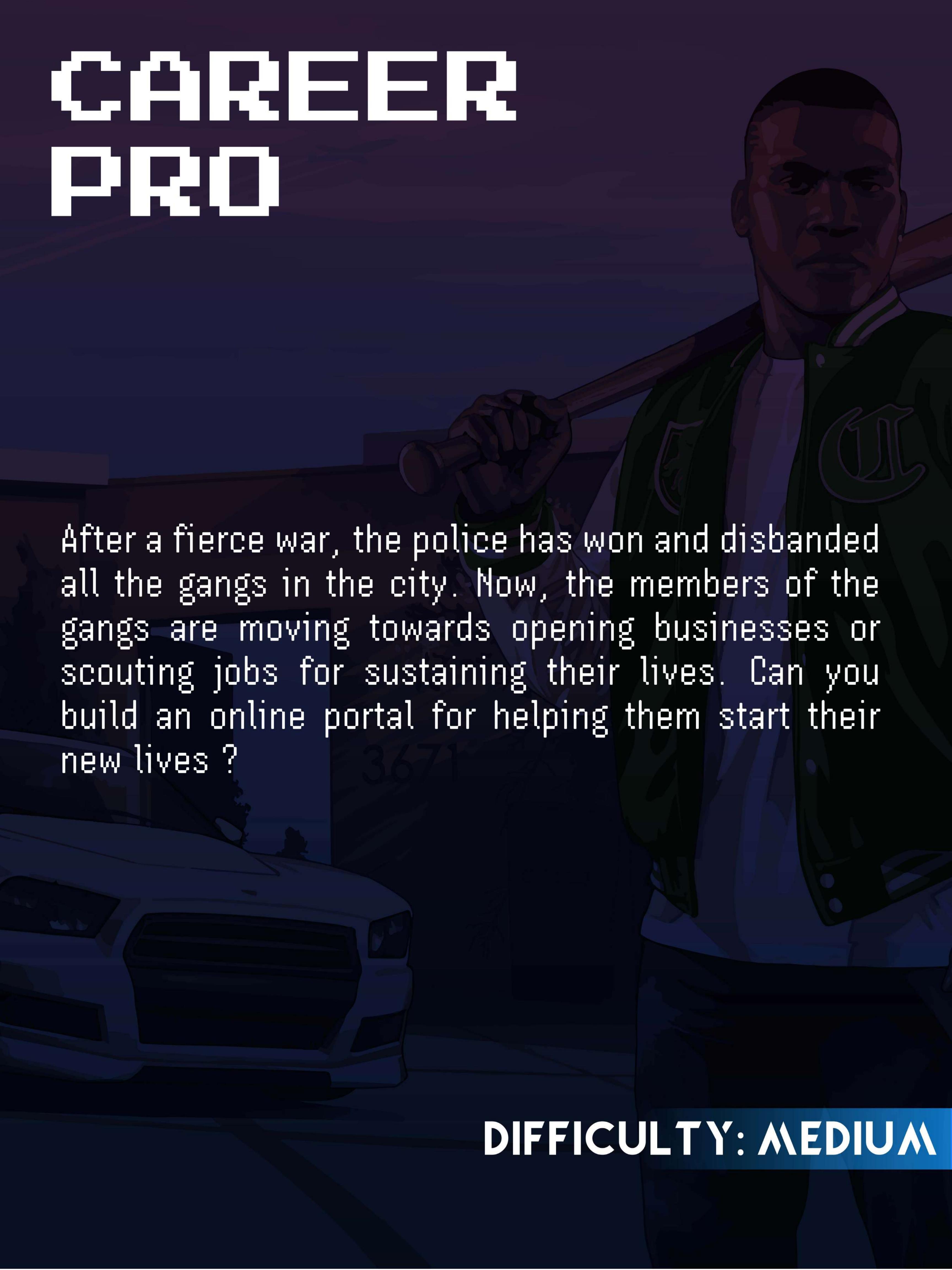
# BASIC

- User login/signup
- Users can practice puzzle problems which come with hints
- Users can view all previous submissions
- User dashboard with their details and activity
- Creating a contest where the creator creates, updates or deletes puzzles.
- Puzzle setter profile for people who can create puzzles, solution and assign tags to problems
- Follow other users and their activities
- Report a problem/user

# ADVANCED

- OAuth from google, facebook etc
- Implement Chaining in Puzzle(You need solve one or more puzzle to unlock next one)
- Add a user to your contest as admin
- Puzzle of the day feature
- Site tour of website for first time visitors
- Advanced Answer Matching Feature to serve better result than just comparing letter by letter

# CAREER PRO

A dark, moody illustration of a man from the waist up. He wears a dark baseball cap with a circular logo, a dark zip-up hoodie with a circular emblem on the chest, and dark pants. He is holding a baseball bat over his shoulder with both hands. The background is dark and textured.

After a fierce war, the police has won and disbanded all the gangs in the city. Now, the members of the gangs are moving towards opening businesses or scouting jobs for sustaining their lives. Can you build an online portal for helping them start their new lives ?

**DIFFICULTY: MEDIUM**

# BASIC

- User login/signup
- User dashboard with job ready resumes, skills etc.
- Company profile for hiring individuals who can create vacancies
- Users can follow companies to get their latest updates
- Users/Companies can post their updates as posts
- Notification from company on creating
- Search users and companies with their names
- Company dashboard with vacancies and user applications
- Notification to users for status of vacancy Report user/company

# ADVANCED

- OAuth from google, facebook etc.
- Implement search with filters, like skills etc.
- Users can connect to other users
- Suggest companies for the user to follow based on skills etc.
- Like and comment feature on posts
- Filter for companies to sort out candidates

# GAMING REALM

Omen is the shadow controller who provides excellent support to his team. What's the secret to his outstanding abilities? To make best of his skill-set ,he strategizes by watching a lot of gameplay videos.

DIFFICULTY: MEDIUM

# BASIC

- User Login/Signup
- Forgot Password
- Post photos/videos of the Game
- User can Rate the post (out of 5 stars) basis of gameplay
- Comment on post
- Report the post
- Follow gamers and notify on activity
- Notification box where gamer can notify every user who follow him (Not a post)
- Search gamers/posts and tags
- Support Gamers by Spending coins (Consider using fake Payments)

# ADVANCED

- Login with fb/google/steam
- Allot ranks to gamers
- Alert for new posts
- Trending Videos
- Gamers can live stream on the website
- Play videos with controls (play, pause, fast forward)
- Chatting peer to peer

# Cryptopunk

Vincent finally after getting ripped a million times of all his assets has now decided to start a new business with Jackie. They plan to build an auction website for the sale of cyberware exclusive to them.

DIFFICULTY: MEDIUM

## BASIC

- Sign up+login for users and dealers
- 2 factor auth for all the users
- KYC of all accounts for secured payments
- Prices of various NFTs
- Portfolios of various users about the tokens they own and prices of them
- Cash wallet like Paytm/ debit cards
- Auction system to auction the goods
- Various nft group private auctions
- Have provision of various types of NFT

## ADVANCED

- Crypto wallet to buy nfts
- Concurrent Auctioning with absolute ordering Semantics
- Live stream chatting while auctions
- No screen recording/ screen shots allowed for copyright reasons
- Predictive pricing for initial pricing of all NFT goods that come for auction
- Recommending nft according to their portfolios and recent searches

# CUPID

After saving the kingdom, Mario and Princess Peach started dating and are going steady with their relationship, but now Luigi, Mario's little brother, starts feeling alone and wants to find "The One" for him. He came to you for help and wants you to create a portal which can help him find a mate of his choice. Can you help him?

DIFFICULTY: MEDIUM

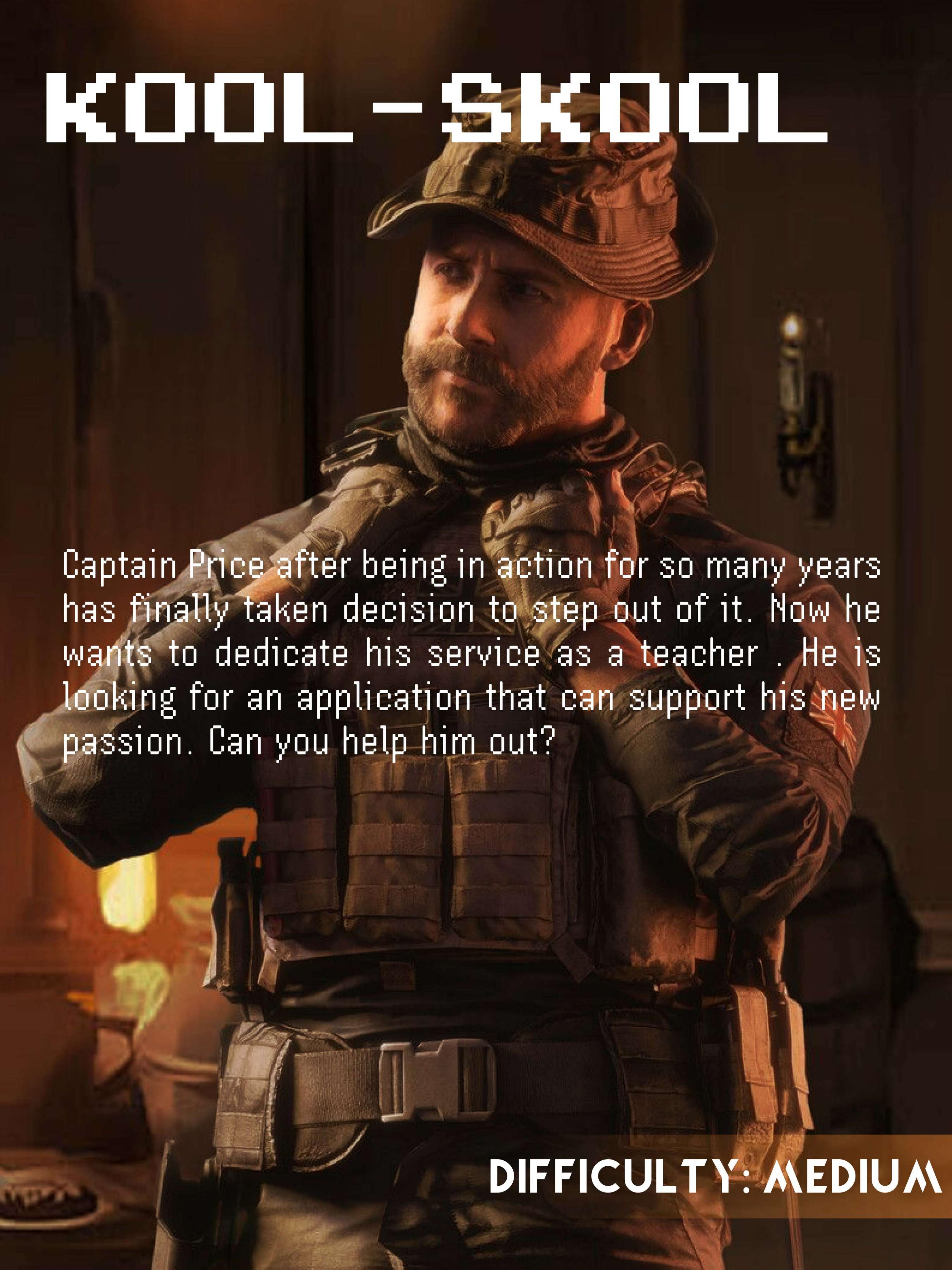
# BASIC

- Login/SignUp for Users
- Build user profile and add preferences
- Add profile pictures and videos
- Swipe and match feature to find your best match based on preferences and location
- Scheduling dates with people who you like
- News Feed of liked matches
- Chat with rich features like emoji, stickers, gifs, etc.
- Audio/Video call feature
- Multi-language support
- Plan your dates at different locations
- Search profiles based on various filters

# ADVANCED

- Users can log in/signup using Google, Facebook, etc.
- Live camera photo verification
- Recommend like-minded people based on users profile
- Anonymous Match Feature
- Different subscription plans with advanced features
- Virtual Movie Date - Stream a video (from Youtube, etc) to both users in real-time along with the Video Call
- Location tracking with SOS feature during Physical Date

# KOOL-SKOOL

A close-up portrait of Captain Price from Call of Duty: Warzone. He is wearing his signature tan beret and camouflage uniform, with a British flag patch on his right shoulder. He has a beard and is looking slightly to the side with a thoughtful expression. The background is dark and moody.

Captain Price after being in action for so many years has finally taken decision to step out of it. Now he wants to dedicate his service as a teacher . He is looking for an application that can support his new passion. Can you help him out?

**DIFFICULTY: MEDIUM**

# **BASIC**

- User login/signup feature
- Homepage divided into various sections, each designated for a specific information.
- Teacher should be able to create different classes and add various subjects to these classes
- HeadMaster could assign teachers to these classes ,create/update/view the timetable of these classes
- HeadMaster can assign the role of Teacher to a user, register students in school and assign them in a class
- Student user can participate/volunteer for upcoming events and give testimonies and share various events, photos posted on the website to other social media

# **ADVANCED**

- OAuth using Google, Facebook etc. accounts
- Users can subscribe to various classes or events to receive notification/reminder
- Payment gateway integration for donation
- Functionality for Desktop notifications
- Functionality to automatically assign a substitute teacher for the class whose currently assigned teacher is unavailable
- Live streaming of events from youtube on the website with real time viewer interaction

# TOGETHER WE

The world has been saved and now Miles wants to enjoy watching movies with spidermen gvens of other universes. Can you create a movie streaming application which can help all spiderman watch movies together.

**DIFFICULTY: HARD**

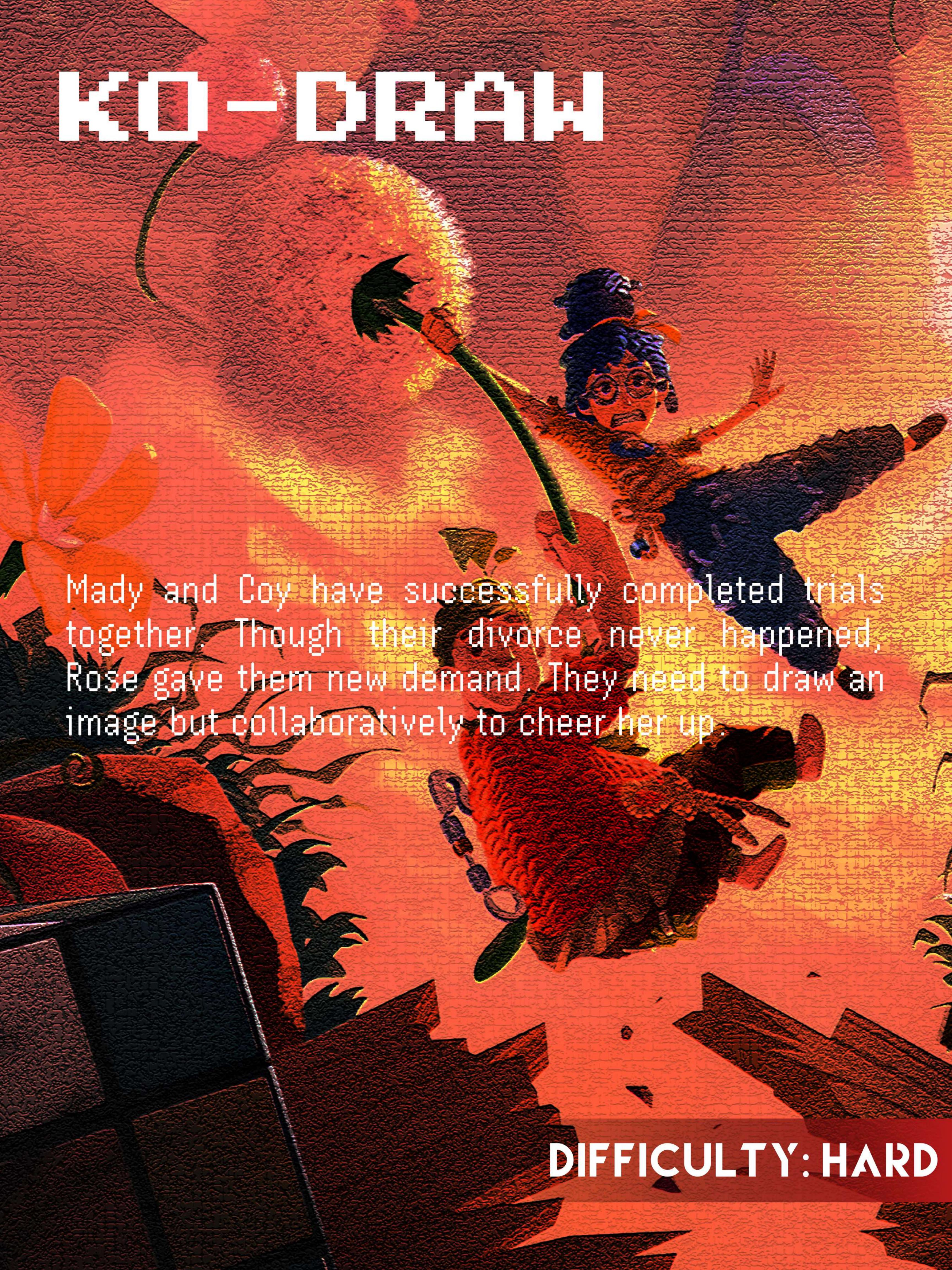
# BASIC

- Login/SignUp for Users
- Video-Audio Upload
- Public-Private feature for video/audio
- Tags for Uploaded Items
- Dynamic Search facility for all public and ones own private items
- Upvote-Downvote feature
- Download option
- Adding favourites
- Audio-Video Playlist creation feature
- Admin Panel Creation to track all Users

# ADVANCED

- Room creation for watching/listening content
- Live Video-Audio syncing feature
- Access control in room by the creator
- Kick feature in room
- Restriction on screen recording of public content
- Simple Recommendation based on watch history and liked content(can do it based on tags without using ML)
- Admin can moderate

# KO-CRAH



Mady and Coy have successfully completed trials together. Though their divorce never happened, Rose gave them new demand. They need to draw an image but collaboratively to cheer her up.

DIFFICULTY: HARD

# **BASIC**

- Login/ Signup for users
- Create new whiteboards and save the current whiteboard
- Feature of pens and erasers of different colors and different sizes
- Ability to view and edit the saved boards
- Ability to share your current board using links or adding username to the list
- Ability for other people to edit/collaborate in real time with the owner
- Ability to restrict the access of board to view only
- Ability to add, move and resize images to the board

# **ADVANCED**

- Export your current board (PNG or JPG)
- Ability to add text anywhere of different color and size
- Ability to draw different basic shapes such as circles and rectangles
- Ability to see other users' mouse pointer
- Ability to follow someone who is presenting/Drawing (the view is in sync for all users)
- Ability to undo/redo recent operations

# BET-IT

Geralt of Rivia is well known for dealing with monsters in exchange for the toss of a coin but he has terrible luck in Gwent. After losing all his fortune, he ventures out to try his luck into a new domain.

**DIFFICULTY: HARD**

# BASIC

- Login/Signup
- Interactive monopoly board
- Play multiplayer online with friends and pass 'n' play
- Basic gameplay implementation
- History of previous matches store
- Single-player mode against multiple AI bots
- Random player matchmaking
- Multi-language support
- Tournament with leaderboard
- Auction in different countries

# ADVANCED

- Users can log in/signup using Google, Facebook, etc
- Real-Time Group Chat system
- Live video feed while playing
- Record game feature
- Different themed boards, dices, pieces, etc

# BEANJAM

Jean Bean, one of the many beans among fall guys, is a big fan of rock music. However, as most of the beans are busy clearing the invisibeans map, no-one is there to listen to his mixtapes and share his interest in music. He wants a common platform where he could showcase his talent. Help him build a social media website where people (as well as beans) can mix audios and match form new music , as well connect with others.

**DIFFICULTY: HARD**

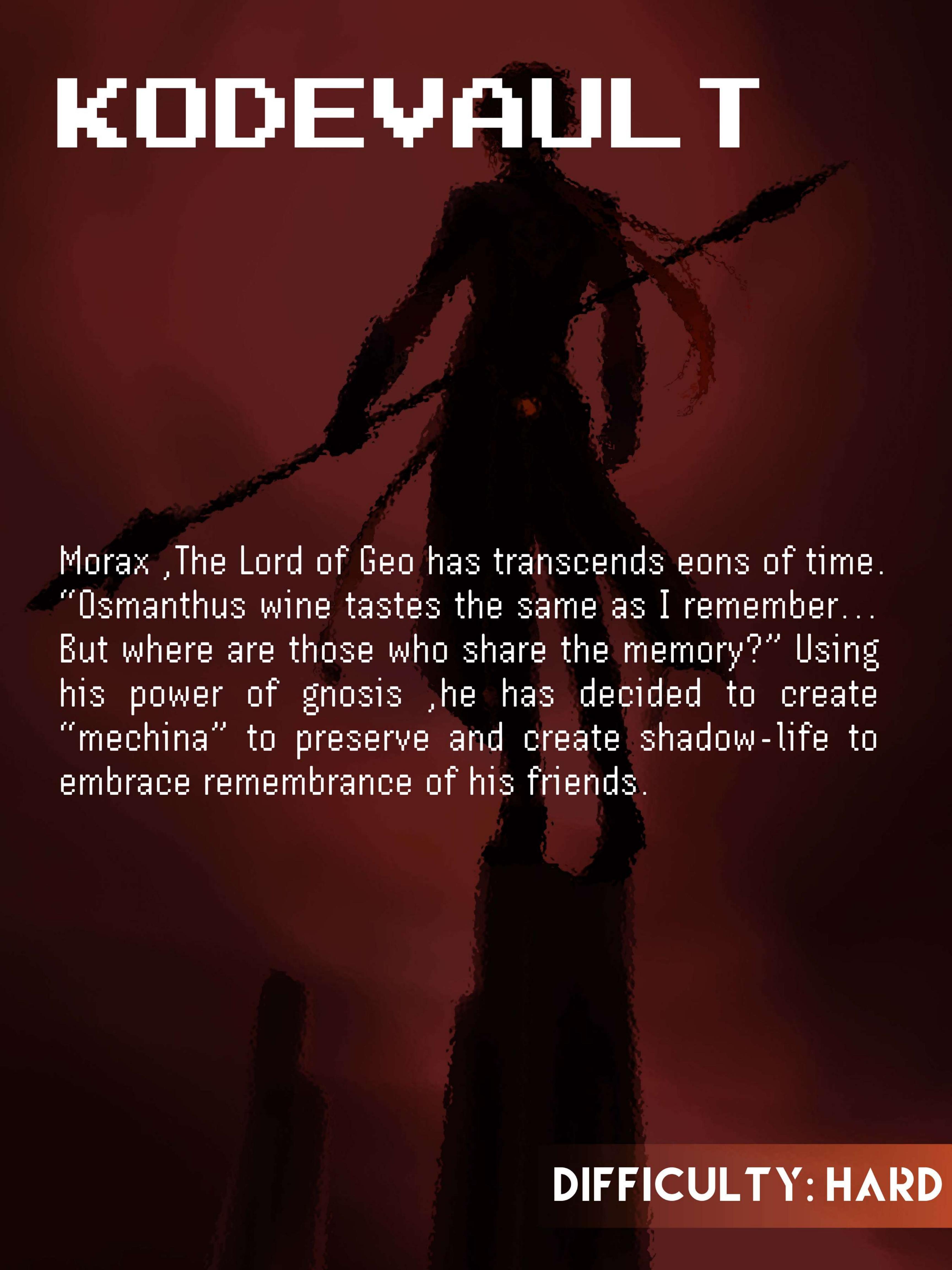
# BASIC

- User login/signup
- Upload/delete audio files
- Options to increase/reduce bass, treble
- Convert stereo to mono audio
- Option to increase/reduce L(left) and R(right) sound level in stereo music
- Mix two audios (logic should be your own) and produce a single track
- Feature to post your generated track
- Users can like tracks
- Users can friend/unfriend other users

# ADVANCED

- OAuth from google, facebook etc.
- UI to trim an audio file
- Graph to show loudness, bass and treble while an audio is playing
- Mix Music Battle where users are matched with random person/friend .Other users can vote within a given time frame to decide the winner between them
- Users can allow access to their track with specific prices
- Implement ELO rating system to rate users on their performances in music battle

# KODEVault



Morax ,The Lord of Geo has transcends eons of time.  
"Osmanthus wine tastes the same as I remember...  
But where are those who share the memory?" Using  
his power of gnosis ,he has decided to create  
"mechina" to preserve and create shadow-life to  
embrace remembrance of his friends.

**DIFFICULTY: HARD**

# BASIC

- User login/signup
- User can create public and private repository
- Add other users to collaborate on existing repositories
- Users can make changes and create separate branches
- Keep track of different versions of the repository
- User can raise an issue and can also make a pull request
- Implement basic GitHub features like merging branches, resolving merge conflicts, etc
- Code review and comment feature
- Star, fork and clone other repositories

# ADVANCED

- OAuth from Google, Facebook etc.
- Two-factor authentication to make changes
- Chat with collaborators and contributors
- Live collaborative workspace
- Elaborative insights on code contributions in repositories
- Smart editor with linting capabilities
- Push code to repository using SSH key

# OPEN THEME



Help the gaming community by building a platform which you think might come to aid of fellow gamers across the globe, in terms of connection, resources or any other problem they face. Keep it unique, keep it real.