

Team E: Stage 1 Project Proposal

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Part 1: Project Proposal Ideas

Idea 1: Looking for Game (Potential Name: LFG, Good Game)

What is the problem/service?

Have you ever wanted to play an online game, but all your friends are *busy*? Have you ever wanted to make new friends from all over the world? Ever want to try new activities that require other players when you're a solo player who doesn't know anyone else? Well our application **Looking for Game** will help you make new friends and find other players from your favorite video games, so you can do the activities you wish at any time of the day!

Why is it important?

Solo gamers have the unfortunate problem of feeling left out by certain activities in games that require playing with multiple people. With **Looking for Game** players can easily find other players that are also searching for the same activity. This is important since it lets players need only one app to find multiplayer groups for all their favorite games that wouldn't have been able to play otherwise. For example, a lot of Destiny 2 players avoid activities such as raids because it requires 6 total players. The application would provide a way for the solo players to participate in multiplayer activities that they otherwise would avoid.

Another reason this is important is that users on PlayStation and PC don't have a good dedicated system to look for a group that has all their favorite games. With this app they can search for any activity, in any game, all in one location. Most players currently use Destiny LFG for Destiny or Discord for general gaming but they're not nice interface and don't have a good post system. Also, it doesn't contain all the games, making users not want to go through the hassle to find other players and thereby missing out on content they would like to play but can't on their own.

How are you going to solve it/introduce it?

We will solve this problem by creating a platform that lets users easily find groups for their favorite games. They would be able to choose a game and create/search for a post, where they would request to join a group. This will allow the players that wish to play with others to find groups for all their games in one place without hassle.

What kind of system will it be (e.g. mobile app, website, computer software, VR application, voice commands interface, digital music instrument interface, car system UI, etc.)?

This application would be a mobile app so that it would be easy for all types of players to find others, from console players, PC gamers, and mobile gamers. The way the app would work is that users would first choose from a tab what game they are looking for. Once they have chosen the game, they would be able to view and scroll through different posts or create their own looking-for group post. When a user finds their desired post, they may click it and send a message asking for an invite from the host, where the host can choose to accept or deny the user.

Idea 2: Esports Training app (Potential Name: TBD)

What is the problem/service?

Have you ever wanted to improve your skills for your favorite Esports based game? **Esports training app** is an application that would let you train and track all your skill in any Esports games of your choice such as League of Legends, Overwatch, Call of Duty, and many more. Skills that players can train and analyze would include reaction time, decision making skills, communication, aiming/tracking, movement, movement + aiming/tracking, positioning, accuracy, etc. The application would include minigames that are focused on sharpening these skills.

Why is it important?

This application is important for those who would like to improve their gaming skills. In the future it may help younger generations become professionals some day as Esports become more and more popular. This application would be specific to Esports games where you must compete against others, which is why you would want to hone your skills in every aspect. It is true that players improve their skills by simply playing the game, however there are specific skills in which players would wish to improve upon and track. For example, a player may notice that they are a little slow to react to opponents attacking and it is causing them to lose fights. This application would have minigames that would solely focus on sharpening their reaction time. These minigames would be analogous to how the hockey goalies train with tennis balls to train and improve their reaction time.

How are you going to solve it/introduce it?

The app would be introduced as a training application to gain a competitive edge against others. There would be a variety of minigames that would focus on sharpening specific skills to strengthen a player's skillset. The minigame would report the results for the session and keep track of previous sessions so that a player can see their improvement. This could be a potential product for talented players who are considering Esports as a career path and for professional Esport coaches looking to train their players and improving their abilities.

What kind of system will it be (e.g. mobile app, website, computer software, VR application, voice commands interface, digital music instrument interface, car system UI, etc.)?

This application would be a desktop application since the vast majority of Esports games are played on PC. However, there is potential for adding AR, VR and Mixed Reality features to train more physical based features like reaction time and coordination. Much like many high-end gaming setups and VR/AR setups, it would be ideal for players to have a spatial training area. The training area would allow them to comfortably interact and play with the minigames that help them improve on skills listed above.

Idea 3: AR Name Tag (Potential Name: Nametag™)

What is the problem/service?

In a world where there is an overabundance of knowledge, humans consume so much information that they forget basic things such as someone's name. In a professional setting, forgetting someone's name can be unprofessional and downright embarrassing. So, what better way to solve this issue than with an **AR Name Tag** to display names and information that we forget without even realizing it!

Why is it important?

Forgetting is a problem all humans have in common, regardless of age, background, ethnicity, etc. Today, people are multitasking more than ever and as a result, small things tend to fall through the cracks. This can become an even bigger problem for people with dementia, whose memory declines at an uncontrollable rate. This problem can also apply to people with high-demanding careers such as physicians who see hundreds of patients in a day and are expected to remember countless details for all their patients. Information is bound to be forgotten and we want to create a solution that will help solve this problem.

How are you going to solve it/introduce it?

We want to solve this problem by providing a service that allows users to display basic information they would need in any given situation. For example, imagine a senior with dementia were to be visited by their son. Through this service, near the son's head a name tag UI, similar to ones seen in video games, would display his name, age, relationship to the senior, and job. The senior would be able to see all that information and hopefully be able to have a conversation with them and recognize who they are.

What kind of system will it be (e.g. mobile app, website, computer software, VR application, voice commands interface, digital music instrument interface, car system UI, etc.)?

The system will use an AR device, like Google glasses or a Microsoft HoloLens. The user would put on the device, scan a bar code/QR code that is tied to a specific dataset, which will then be displayed to the user. For example, if an individual was volunteering at an animal shelter, the system would allow them to scan a barcode of any animal, so that they may see all necessary information related to that animal. Suppose they scanned a dog tag, the AR app would display their breed, age, gender, name, and any medical conditions. To simplify the data entry process, this app would allow users to use speech to text recognition rather than using an AR keyboard.

Part 2: Project Portfolio

You can visit our team's progress at:

<https://manols0398.wixsite.com/cpsc481-team-e>

Part 3: Online Repository

You can visit our public GitHub repository at:

<https://github.com/gabyrgonz/CPSC481-F20-Tutorial1-TeamE.git>

All our work for stage one of the team project can be found under the feature branch: **stage_one**.