

## Project Milestone 1

Recitation - Group: 114 - 4

Team Name: Project Null

### **Names and GitHub:**

- |                     |                  |
|---------------------|------------------|
| • Taryn Hovenkamp   | tarynmh          |
| • Christian Polanco | christianpolanco |
| • Benjamin Deguire  | bede03144        |
| • Kaleb Park        | kjp1999          |
| • Trustin Pham      | Trust50          |
| • Jamie Joung       | jamsein          |

### **Application Name: Pokemon Team Builder**

**Application Description:** Create your own profile and make pokemon teams with any generation of pokemon. You can modify their stats, names and see what pokemon are best for your team. In addition to this, you can learn about the Pokemon with short descriptions and images of them. Your team will be saved with your account and you can browse and inspect other peoples teams. Users of all skill levels can use this application to create their ideal team.

You can customize your pokemon in various ways such as making it shiny, choosing its moveset, and what item it will hold. Recommendations will also be available for moveset and item. Their stats can be modified and pokerus can be obtained by making friends with another user that has pokerus.

If your team is weak to a particular type the site can recommend a pokemon that will help counter that type. A list of the best competitive pokemon will be available to users. Browsing the various pokemon and testing their shiny skins is also an option. Selecting a pokemon will show you its available moves and shiny form.

### **Vision Statement:**

For competitive Pokemon players who need to try out different team builds, the Pokemon team builder is a log-based web application that allows users to create team builds in order to test the countless combinations for which the game allows. Unlike other Pokemon team builders, our product will offer suggestions for finding the weak spots in the user's team, ultimately creating more powerful parties.

**Version Control:**

Github Link: <https://github.com/CSCI-3308-CU-Boulder/114-4.git>

**Development Method:** Using agile/scrumb method we will have a set amount of user stories with varying importance to be completed in a 2-3 week sprint period. User stories will be grouped into epics and be completed systematically. Stories to be completed will be inside of our Jira project hub.

**Jira link:**

<https://csci-3308-fa20-114-4.atlassian.net/secure/RapidBoard.jspa?rapidView=1&projectKey=P14&view=planning.nodetail&selectedIssue=P14-2&quickFilter=2&epics=visible&issueLimit=100&atlOrigin=eyJpIjoiNGJiZjY1NmFkMDEyNGE3YjlkZDUzMmRjNTcyMmY0NGUiLCJwIjoiajI9>

**Communication Plan:**

We will voice call over Discord and share any resources or message through the server/group chat. Through Discord, we can organize text channels into specific categories and post progress or questions for the rest of the team. All code and project materials will be shared with team members and TA's over github to share and update code and plans. Finally weekly TA meetings and Class Recitations are held on zoom where we can keep TA's and Team members updated on the progress of the project.

**Meeting Plan:**

We will hold weekly 2 hour meetings every Sunday from 4-6 pm through voice chat on Discord. Our meetings with the TA are scheduled to be on Tuesdays from 10:15 - 10:30.

**Proposed Architecture Plan:**

We will use:

- C++ backend
- MySQL database
- Javascript/CSS/HTML

MySQL will be used to store our pokemon and use data, we will then pass that in to C++ to compute and stats and perform necessary functions for the team builder. This will then be displayed to the user interface with Javascript/CSS/HTML. C++ can make calls to the database and javascript can then make calls to C++ code.

## Case Diagram

Actor	Noob
Use Case	Register for account
Description	Creating an account for new users under their username and email to keep track of Pokemon teams they've created.

Actor	Noob
Use Case	Get recommendations
Description	Suggest ways to improve the user's team (e.g. "You could use a Fire-type Pokemon on your team! Fire is effective against grass, ice, bug, and steel Pokemon!")

Actor	Noob
Use Case	Picks first pokemon in team
Description	Would suggest most paired pokemon with the one chosen and example teams

Actor	Noob
Use Case	Description of pokemon
Description	Not all beginners will know what each pokemon is or does by looking at them. Describing the pokemon in detail such as their type or stats would be helpful.

Actor	Noob
-------	------

Use Case	Move List
Description	The user is able to browse a list of all of the moves that each Pokemon can learn. Gives a description of the move (e.g. Quick Attack / phys / 40 power / 100 acc / 30 pp)

Actor	Casual
Use Case	IV
Description	Explains the purpose of IVs and how they work. The user is then able to edit the values for each individual stat.

Actor	Casual
Use Case	EV
Description	Explains EV's and how to increase them. The user can edit the EVs specific to his pokemon and then stats are automatically updated

Actor	Casual
Use Case	Item synergy
Description	Explains the synergy of items with certain pokemon and suggests what would be the most beneficial for a pokemon to hold.

Actor	Casual
Use Case	Shiny Pokemon
Description	An option for those who want to add a shiny

	Pokemon to their team (checkbox that will indicate a shiny / change image to shiny Pokemon's version(?))
--	--

Actor	Casual
Use Case	Proper moves to use for competitive battle for each pokemon
Description	Suggest a proper move set for your pokemon to best suit its abilities in battle.

Actor	Competitive
Use Case	Manipulating/Comparing Stats(?)
Description	For serious players, they will want to know the specific stats (attack, defense, etc) for each Pokemon for the optimal team.

Actor	Competitive
Use Case	Natures
Description	When nature is chosen, there is a description of the effects of the nature and will change the stats based on the nature chosen.

Actor	Competitive
Use Case	Perfect Pokemon
Description	Pokemone automatically have perfect stats so the trainer doesn't have to worry in a competitive game where the standard would be to catch the perfect stat pokemon.

Actor	Competitive
-------	-------------

Use Case	Abilities
Description	Able to choose your own ability and have suggested abilities to match the move set that you have chosen

Actor	Competitive
Use Case	Pokerus
Description	The ability for a user to declare that a Pokemon has Pokerus, and other users will be able to see which users' Pokemon have the virus so they can give it to their own as it is "contagious" and beneficial to raising the Pokemon EV (stats).