

Pokemon: East Bay
Software Requirements
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1. Introduction
 - 1.1. Purpose: Pokemon East Bay will be a massive multiplayer role playing game based on the original Pokemon series but with a twist on the battle system.
 - 1.2. Scope: Players will be able to travel, catch and trade a wide variety of Pokemon, and battle with other trainers and players. Within the means of the project, functionalities to be implemented are:
 - 1.2.1. Pokemon for the player to catch
 - 1.2.2. Non-player Characters for the player to battle against
 - 1.2.3. A store where the player can purchase items
 - 1.2.4. A starting town where the user begins their journey
 - 1.3. Definitions, acronyms
 - 1.3.1. Pokemon: Monster creatures that can be fought or captured
 - 1.3.2. Pokedex: A device displaying the player's caught or seen Pokemon
 - 1.3.3. Pokemon Battle: An in-game duel between the player and either another player or a non-player character where their respective Pokemon fight
 - 1.3.4. Gym Leader: An in-game boss figure that can be challenged
 - 1.3.5. Non-Player Character (NPC): Any character found in-game that is not being controlled by a player
 - 1.4. References
 - 1.5. Overview:
2. Overall Description
 - 2.1. Product perspective
 - 2.2. Product functions
 - 2.3. User characteristics
 - 2.3.1. Players
3. Specific Requirements
 - 3.1. User Requirements
 - 3.1.1. The user will have access to a login page including the following:
 - 3.1.1.1. A field to enter the player's username or email
 - 3.1.1.2. A field to enter the player's password
 - 3.1.1.3. An option for players to be able to recover either their username or password if forgotten
 - 3.1.1.4. An option for the user to register through the software as a new player
 - 3.1.2. Players will have access to an in-game store that will provide them with:
 - 3.1.2.1. The option to purchase in-game items
 - 3.1.2.2. The option to sell in-game items

- 3.1.3. Players will have access to an in-game menu that contains:
 - 3.1.3.1. Option to view player's Pokemon team
 - 3.1.3.1.1. The player has the ability to rearrange the order of their Pokemon team.
 - 3.1.3.2. Option to view player's Pokedex
 - 3.1.3.2.1. All of the Pokemon owned by the player
 - 3.1.3.2.2. All of the Pokemon seen by the player
 - 3.1.3.2.3. All of the Pokemon not seen by the player
 - 3.1.3.3. Option to view player's profile which includes:
 - 3.1.3.3.1. A section displaying the badges the user has earned
 - 3.1.3.3.2. A section displaying total time played
 - 3.1.3.3.3. A section displaying the total amount of Pokemon captured
 - 3.1.3.4. View player's items bag
 - 3.1.3.5. Save progress option
 - 3.1.3.6. Quit game option
- 3.1.4. The ability to initiate Pokemon battles
 - 3.1.4.1. Pokemon battles can be initiated by either running in grassy areas, running into dedicated battle NPCs, or challenging a gym leader
 - 3.1.4.2. During Pokemon battles, player have the options to:
 - 3.1.4.2.1. Fight the Pokemon
 - 3.1.4.2.2. Access their bag for items
 - 3.1.4.2.3. Switch Pokemon
 - 3.1.4.2.4. Run from the fight
 - 3.1.4.3. Battles will consist of rounds which consist of the following phases
 - 3.1.4.3.1. Each round one participant will be the attacker and other the defender
 - 3.1.4.3.2. The attacker picks a move for their pokemon to perform. The defender also picks a move for their pokemon to perform.
 - 3.1.4.3.3. The outcome of the chosen moves is resolved.
 - 3.1.4.3.4. Attacker and Defender swap roles.
- 3.1.5. Client will have Player vs Player battles
- 3.1.6. The game will have at least have 20 available Pokemon

3.2. System Architecture

- 3.2.1. Player module
- 3.2.2. Client module
- 3.2.3. Server module
- 3.2.4. Pokemon Collection module

- 3.3. System Requirements
 - 3.3.1. The system will use a service that handles large volumes of player actions.
 - 3.3.2. The system will have database for the video game saved data
 - 3.3.3. The system will have a server to handle chat and Application User Interface(API) functions
 - 3.3.4. The system be written with the Java programming language, run on the Java Virtual Machine, and make use of the JavaFX library
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- 5. System Evolution
- 6. Supporting Info