

Service Layer Design

Michelle Ray

November 1, 2023

Overview

For my application I will be using PHP to provide the service layer. It will be used to both manipulate user given data and call for data from the database.

Service Endpoints

Create Character Route

Method: POST

URL: /createCharacter

Purpose: This will be the main route that will use the information submitted by the user to call on the database to provide the information needed from it and populate the page. During this call, the ability points will be distributed as well.

Sample Success Response

{

“status” : 200

“name” : “Jane Smith”

“age” : 42

“gender” : “female”

“occupation” : “fisherman”

“strength” : 25

“intelligence” : 4

“charisma” : 13

“agility” : 9

“dexterity” : 19

“speed” : 7

“perception” : 21

“wisdom” : 18

“background_1” : “This person was born into the home of a master of horses.”

“background_2” : “Their favorite color is red.”

“background_3” : “This person is allergic to corn.”

“background_4” : “When they left home, they became a leather worker.”

“background_5” : “This person likes to dress in a fancy style.”

}

Sample Failure Response

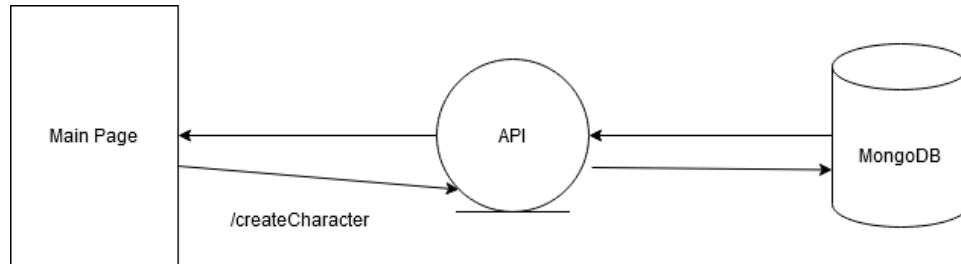
{

“status” : 500

“message” : Something has gone wrong with the form.”

}

Diagram



Save Character Route

Method: POST

URL: /createCharacter

Purpose: This route should allow a user to save the contents of their generated character profile to a .txt file on their computer. The file should be stored in their default downloads folder.

Sample Success Response

{

“status”: 200

“file”: “character.txt”

}

Sample Failure Response

```
{  
  
  "status" : 500  
  
  "message" : "Something has gone wrong with the file."  
  
}
```

Diagram

