Updated Specifications for Easy Bot Invites

New Functionality: Character Registration and Listing

A new feature is added to allow users to register their in-game characters via Discord **slash commands** and retrieve lists based on different filters.

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1. Character Registration Commands

Users can register and manage multiple characters using `/set_character`.

New Commands:

- **`/set_character`** → Registers or updates a character.
  - **Inputs:**
    - `name` → Character name (string)
    - `class` → Dropdown selection (Druid, Hunter, Mage, Warrior, Warlock, Paladin, Rogue, Priest)
    - `main_spec` → Dropdown (Tank, Healer, DPS)
    - `off_spec` → Dropdown (Tank, Healer, DPS, None)
    - `main_or_alt` → Dropdown (Main, Alt)
- **Example Command Usage:**

  ```
  pgsql
  CopyEdit
  /set_character name: Thrall class: Shaman main_spec: Healer off_spec: DPS
  main_or_alt: Main
  ```

- **Database Changes Required:**
  - **New Table: `characters`**

    ```
    sql
    CopyEdit
    CREATE TABLE characters (
        id SERIAL PRIMARY KEY,
        user_id BIGINT NOT NULL,
        discord_username TEXT NOT NULL,
        character_name TEXT NOT NULL,
        class TEXT NOT NULL,
        main_spec TEXT NOT NULL,
        off_spec TEXT NOT NULL,
        main_or_alt TEXT NOT NULL,
        UNIQUE (user_id, character_name)
    );
    ```

  - Each user can register **multiple** characters, but each character name must be unique per user.

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2. Character Listing Commands

Listing All Characters

- **Command:** `/list_all`
- **Function:** Displays a table with all registered characters.
- **Output Format:**

  ```
  pgsql
  CopyEdit
  Name | Main or Alt | Class | Main Spec | Off-Spec
  ----------------------------------------------
  Thrall | Main | Shaman | Healer | DPS
  Jaina | Alt | Mage | DPS | None
  ```

Filtering by Class

- **Command:** `/list_class`
  - **Input:** `class` (Dropdown: Druid, Hunter, Mage, Warrior, Warlock, Paladin, Rogue, Priest)
  - **Function:** Returns the number of characters in that class.
  - **Example Output:**

    ```
    diff
    CopyEdit
    Class: Mage
    Total Characters: 5
    - Jaina (Main)
    - Antonidas (Alt)
    - Kael'thas (Main)
    ```

Filtering by Spec

- **Command:** `/list_spec`
  - **Input:** `spec` (Dropdown: Tank, Healer, DPS)
  - **Function:** Lists all characters with the selected main or off-spec.
  - **Example Output:**

    ```
    vbnet
    CopyEdit
    Spec: Tank
    Characters with Main Spec:
    - Garrosh (Warrior)
    - Arthas (Paladin)

    Characters with Off-Spec:
    - Thrall (Shaman)
    ```

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3. Export Functionality

- **Command:** `/export_list`
- **Permissions:**
  - Only available to users who have **invite link creation permissions**.
- **Function:**

    - Generates a `.CSV` file containing the full character list.
    - Bot sends the spreadsheet via **DM** to the user who executed the command.
- **Database Query for Export:**

  ```
  sql
  CopyEdit
  SELECT character_name, main_or_alt, class, main_spec, off_spec
  FROM characters
  ORDER BY class, main_spec;
  ```

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4. Interactive Selection (Optional Enhancement)

- Users can **select their class, main spec, and off-spec via buttons/icons** instead of typing them manually.
- Clicking an icon in a designated **channel** instantly shows a list of all users in that category.
    - Example: Clicking the "Tank" icon displays a list of all tanks.
- If the client provides **custom icons**, they can be integrated.

Summary of Changes Needed

1. **Add New Slash Commands**
    - `/set_character` → Registers or updates a character.
    - `/list_all` → Lists all registered characters.
    - `/list_class` → Lists characters filtered by class.
    - `/list_spec` → Lists characters filtered by main/off-spec.
    - `/export_list` → Exports data to a `.CSV` file.
2. **Modify Database:**
    - **Create new `characters` table** to store character details.
3. **Add CSV Export Functionality:**
    - Allow users with invite permissions to export character data.
4. **(Optional) Implement Interactive UI:**
    - Button-based selection for class/spec filtering.

This update enhances the bot with **guild character tracking**, making it easier to manage raid compositions! 🚀