- PlayerService
 - Project Structure
 - Features
 - API Endpoints
 - 1. Create a Player
 - 2. Get All Players

PlayerService

Project Structure

Features

Player Creation:

- Players can be created via a REST API.
- A player can be assigned a name, or a unique identifier will be generated if no name is provided.
- Validates the uniqueness of player names; if a name already exists, a 400
 BadRequest is returned with an appropriate error message.

• Player Retrieval:

Fetches the list of all created players from Redis.

 Player data is persisted in Redis to ensure it remains available across multiple sessions.

API Endpoints

1. Create a Player

- URL: POST /api/player
- **Description**: Creates a new player with an optional name.
- Request Parameters :
- playerName (query string, optional): The name of the player. If not provided, a unique name will be generated.
- Response :
- 200 OK: Player successfully created.
- 400 BadRequest: If the playerName is already taken.

Example Request (with player name):

```
curl -X POST "https://localhost:7008/api/player?playerName=Mehran"
```

Example Request (without player name):

```
curl -X POST "https://localhost:7008/api/player"
```

Example Response (success):

```
{
    "id": "1635de3b-1883-40da-a34e-ceffd6fa321b",
    "name": "Mehran"
}
```

Example Response (error - name already taken):

```
{
   "message": "The player name is already taken."
}
```

2. Get All Players

• URL: GET /api/player

• **Description**: Fetches the list of all players.

• Response: 200 OK with a list of players.

Example Request:

```
curl -X GET "https://localhost:7008/api/player"
```

```
[
   "id": "a18a4ce4-00f0-4721-a79f-c0c507e25005",
   "name": "SWOHxegCUd"
 },
    "id": "37014d01-0098-45a7-987e-49250d2774e6",
   "name": "mehran2"
 },
    "id": "d2a56739-8605-4e6b-af93-1f78a747c419",
    "name": "GZR1W5xfkt"
 },
    "id": "3d9c0cad-01d0-4aa2-bd8e-1fc72285f7d7",
   "name": "te+mFFVe+k"
 },
    "id": "1af19130-5f87-424d-aa06-7a2500d8ed11",
    "name": "y3vlzRItBs"
 },
    "id": "49fc12c1-0536-4488-a757-eeaca67d1fbd",
    "name": "PsaIRQUP7W"
  },
    "id": "4a8684a4-8d20-4896-96ef-5e751616c77b",
    "name": "mehran"
]
```