SOEN 487 Microservices Project
MY Game Schedules

Project / Application Description

The My Game Schedules project is a personalized dashboard tailored to needs of soccer enthusiasts. The goal of the project is to provide a personalized experience by delivering game schedules of the selected teams of the registered members.

Registered users will be able to view game schedules of their selected soccer teams from the English Premier League, as well as the current ranking of these teams. They can also choose to receive email notifications about their teams' games which will be played soon. Although this basic version of the application is restricted to only one league and few features, the application can be easily extended to include other competitions and customized features.

User Stories

The following are small set of user stories from which some high level components of the application will be derived:

- A user can create an account on My Game Schedule with a valid email account.
- A registered user can login and create a list of teams of their choice to subsequently display schedule fixtures for only those teams on their dashboard.
- A registered user can receive daily notifications of scheduled games from their personalized list of teams for the games to be played soon.

Microservices Description

- Authentication Service: Authenticating users with a password.
- Schedules Retriever: Periodically talks to external APIs to retrieve game schedules and then talks to the Database Management service to make it update the database.
- Database Management: Manages a local database containing the data about each of the app's users and their favorite teams.
- Notification Service: Sends daily notifications to users for games that their teams are playing on the same day.

API

Method	URI	Description
GET	http://mygameschedules	Homepage / Dashboard
POST	http://mygameschedules/login	Logs the user in
POST	http://mygameschedules/register	Registers new users
GET	http://mygameschedules/teams/	Returns available teams
GET	http://mygameschedules/myteams/	Returns user's personalized list of teams along with their current ranking in the league
POST	http://mygameschedules/myteams/	Adds a new team to the user's personalized list of teams
DELETE	http://mygameschedules/myteams/<team_id>	Removes a team from the user's personalized list of teams
GET	http://mygameschedules/teams/<team_id>/schedules	Returns schedule of a specific team based on team id
GET	http://mygameschedules/myteams/schedules	Returns schedule of user's favorite teams