



Back End – Notification APIs

It is required to create a notification system API, which is capable of receiving a message and depending on the category of the message and the users subscribed to them, said users will be notified to the medium that they themselves chose.

3 categories of messages will be handled:

- **Sports**
- **Finance**
- **Films**

And it is required to send 3 types of notifications

- **SMS**
- **E-mail**
- **Push Notification**

It is not required that any message is actually sent or communicates with any external API, only the sending of said notification will be recorded in a Logs file or in the database.

In the log it is required to save all the necessary information to identify that the correct notification was made to the corresponding user. Save information such as the type of message, type of notification, user data, time, etc.

User administration is not required, a Mock of users can be managed in the system, they must have the following information:

- **ID**
- **Name**
- **E-mail**
- **Phone**
- **Subscribed [] List of categories you are subscribed to**
- **Channels [] List of user notification types (SMS | Email | PushNotification)**

The API will receive 2 parameters:

1. **Category.** Validate from the list of available categories
2. **Message.** Just validate that the message is not empty.

What will be evaluated:

- Application architecture and design patterns
- OOP and Scalability (Ready to add more types of notifications).
- Handling requests to the Server through RESTful APIs
- For testing, register at least 3 users with different configurations

