

# MZANSI-FLIX



SOUTH AFRICA'S 1ST BLACK OWNED STREAMING PLATFORM

## THROWBACK THURSDAY



SGUDI 'SNAYSI



Lesilo Rula



Family Bonds

# Mzansi-Flix Features

South Africa's 1st Black owned streaming platform

Sifiso Smangaliso Dladla

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The Time is Now

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Mzansi-Flix

## MZANSI-FLIX

### PROJECT DESCRIPTION

**Mzansi-Flix** is an experimental streaming platform project, its goal being to succeed in developing a web application served by ReactJS and powered by Spring framework. The project will have to set up a REST API managing users, profiles, videos, support tickets, notifications, subscriptions, as well as a history of entries. Access to streaming routes will use Spring Webflux, user account activation will be done via Spring Mail, and REST routes will take DTOs as parameters whose validated parameters will be processed by the use of Spring Validation. A video encoder using ffmpeg will need to be used for uploading videos.

### MZANSI-FLIX FEATURES

Variability of backend and encoder addresses via environment variables (application.properties, META-INF and Docker environment variables)

### VIDEO

1. Video Upload [Admin, Affiliate]
2. Video Deletion [Admin Only]
3. Video Editing [Admin, Affiliate]
4. Public Playing of a Video [Admin]
5. Video consultation [User/subscriber minimum]

### USER ACCOUNT

1. User Registration [Any Role]
2. User Login [Any User]
3. Edit your own user, role excluded [User]
4. Edit any user [Support, Admin]
5. Delete your own user [Any role]
6. Delete a user [Admin, Support]

### USER PROFILES

1. Creation of main profile first login [Any user]
2. Added profile [Any user]
3. Added Child Profile [Any User]
4. Securing non-child profiles [Any user]
5. Edit your own profile [Any user]
6. Deletion of one's own profile [Any user]
7. Edit another user's profile [Admin, Support]
8. Delete another user's profile [Admin, Support]

## **SUPPORT**

1. Support panel access [Any user]
2. Ticket creation [Any user]
3. Modification ticket [Admin, support]
4. Suppression ticket [Admin, support]
5. Edit own ticket message [Any user]
6. Closing your own ticket [Any user]
7. Closing any issue [Admin]
8. Closing any ticket on which you are assigned [Support]
9. View your own tickets [Any user]
10. View all tickets [Admin]
11. View your own assigned tickets [Support]

## **NOTIFICATIONS**

1. Push Notification [Admin]
2. Receive notifications according to preferences [Any user]

## **MAILS**

1. Email to registration [Any user]
2. Account activation via email [Any user]

## **SUBSCRIPTIONS**

1. Subscription [Any User]
2. Change subscription [Any user]

## **ADMIN [ADMIN]**

1. User Listing [Admin]
2. User Modification [Admin]
3. Modification of subscription [Admin]
4. Video Management [Admin]

## **AFFILIATE PANEL**

1. Admin panel having access only to the uploaded videos themselves
2. Manage your own videos [Admin]

## **HISTORY SYSTEM**

1. Historization of actions
2. Access the [Support, Admin] history

#### **FUTURE IMPROVEMENTS**

1. Templates mail
2. Payment system
3. Timestamp integration
4. Video loader customization
5. Synchronization of multi-player playback
6. Use of several encoders solicited by actuator
7. Stack persistence and fault tolerance testing via chaosmonkeys

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