

Proposed technical requirements for the development and maintenance of online streaming for Radio CU - 5 year plan :

Overview

1. Radio Content Management System
2. Radio web portal
3. Reactive-native based android application
4. User management
5. Robust content management with customizable URL's (Slug), on-demand SEO [Tags, Meta Description and Keywords]
6. Shoutcast/Cantova cast based radio streaming server
7. Mobile first UI/UX.
8. Testing and Deployment
9. Microservice architecture
10. Streaming server management
11. Listening statistics

The website and mobile app should have the following features :

Radio content management system and a dynamic, modern, responsive and user friendly website and app.

Radio CU Website Features

- Responsive/mobile friendly
- Dynamic
- SEO friendly and manage seo elements from admin panel
- Faster and secure
- Admin Panel for managing content
- User Management
- Feedback Management
- Listener statistics

Modules:

- Radio streaming [Live]
- Program Management
- Episode Management [Audio]
- Video Content Management [Youtube]
- News/Event Management
- Notification/Updates Management
- Team Member Management
- Program Schedule Management
- Dynamic Contact Us Form
- About Us [Static]
- Dynamic Gallery

Radio CU - Mobile App Features [Android + Apple]

A dynamic, modern and user friendly mobile app for Radio CU

- Technology used - Reactive Native
- The updations in the web-based radio CMS will be reflected in the mobile app dynamically
- Radio streaming [Live]
- List of programs
- List/Play episodes
- Program schedule
- List of team members
- News and events
- Video contents
- Notifications
- About us
- Contact us form
- Gallery

Specifications for streaming server

- 120 GB Bandwidth
- 30,000 Listeners
- 192kbps streaming
- SSL (HTTPS) stream URL
- 99.9% uptime
- MP3 support
- AAC Support