`Project Charter: RSS Feed Aggregation Web Application

1. Project Overview

Project Name: RSS Cargo Web Application
Team name: RSS Cargo
Start Date: 10.02.2025
Estimated Completion Date: 30.05.2025

2. Objectives

The primary objective of this project is to develop a web application that provides users with a convenient and efficient way to subscribe to and view RSS feeds, organized into thematic "containers." Users will be able to:

- Browse, subscribe, and manage RSS feeds within categorized containers.
- Save selected RSS feeds to their personal accounts for later reading.
- Easily access feeds in a user-friendly, responsive interface.
- Experience a seamless and secure authentication and account management system.
- Utilize a high-performance backend to process and aggregate feeds in real-time.

3. Problems to Solve

- **Information Overload:** Users struggle to manage and track multiple RSS feeds efficiently.
- **Subscription Complexity:** Lack of a simple mechanism to organize feeds based on themes.
- **Limited Customization:** Many RSS aggregators do not offer personalized feed management.
- **Poor User Experience:** Existing solutions often have cluttered interfaces, slow performance, or lack intuitive navigation.
- **Scalability & Performance:** Ensuring real-time updates and efficient handling of high data volumes from multiple sources.

4. Goals & Expected Outcomes

Goals:

1. Develop a scalable and performant backend to handle RSS feed aggregation and user subscriptions.
2. Create an intuitive and responsive user interface for seamless feed browsing and management.
3. Implement secure authentication and account management features.
4. Ensure robust testing and quality assurance for a bug-free experience.
5. Deploy the system with CI/CD pipelines and real-time monitoring.
6. Deliver a product that can scale and integrate additional features in the future.

Expected Outcomes:

- A fully functional RSS feed aggregation platform with a user-friendly UI.
- A secure and efficient backend that updates feeds in real-time.
- Improved user engagement and retention through personalized content management.
- A stable, scalable, and high-performance application.

5. Target Audience

- **Individuals:** Users who frequently follow news, blogs, and other RSS-based sources.
- **Researchers & Professionals:** Individuals who require categorized information from multiple sources.
- **Content Curators:** Users looking to aggregate and manage RSS feeds based on interests.
- **Tech Enthusiasts:** Those who prefer a customizable, efficient RSS feed aggregation solution.

6. Stakeholders

- **Project Team:**
  - Product Manager
  - Backend Developer
  - Frontend Developer
  - QA Engineer / DevOps
- **End Users:**
  - General public interested in RSS feed aggregation
  - Content creators who rely on feeds for news tracking
- **Business Owners & Investors (if applicable):**
  - Any parties interested in monetizing or expanding the project.

7. Project Constraints

- **Time Constraints:** The project must be completed within [Timeframe].
- **Budget Constraints:** Limited resources for hosting, development tools, and third-party services.
- **Technology Stack:** Must use predetermined technologies based on team expertise and scalability requirements.
- **Security & Compliance:** The application must ensure data privacy and comply with relevant regulations (e.g., GDPR for user data protection).
- **Scalability Challenges:** The system should be designed to handle an increasing number of users and RSS feed sources without major performance degradation.

8. Success Criteria

- A working beta version with core features deployed within the planned timeframe.
- User feedback indicating ease of use and effectiveness in managing RSS feeds.
- Stable system performance with minimal downtime and fast response times.
- Successful integration of security measures and authentication processes.
- Scalability and potential for future feature expansions based on demand.