



FEEDSYNC CLOUD RSS READER PROJECT DELIVERABLE 1

Spring 2025 CSC468-01: Introduction to Cloud Computing



Team Name: CloudVision

Team Members:

- Ellis Weaver-Kreider
- Yanxi Wei
- Gustave Johannesen
- Chris Ross

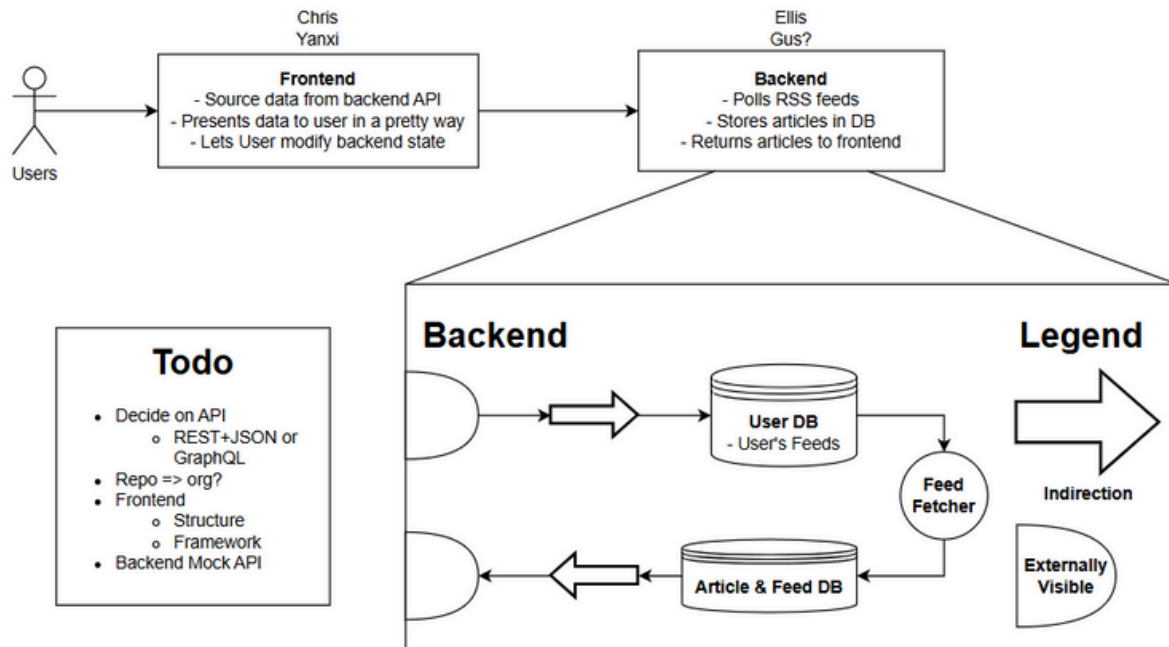
Date: February 10, 2025

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Chapter 1: Project Vision

The goal of this project is to develop an RSS Reader that allows users to subscribe to RSS feeds, retrieve articles, and display them in a user-friendly format. The system consists of a frontend interface for users to interact with and a backend service that manages data retrieval, storage, and processing.



1.1 Introduction

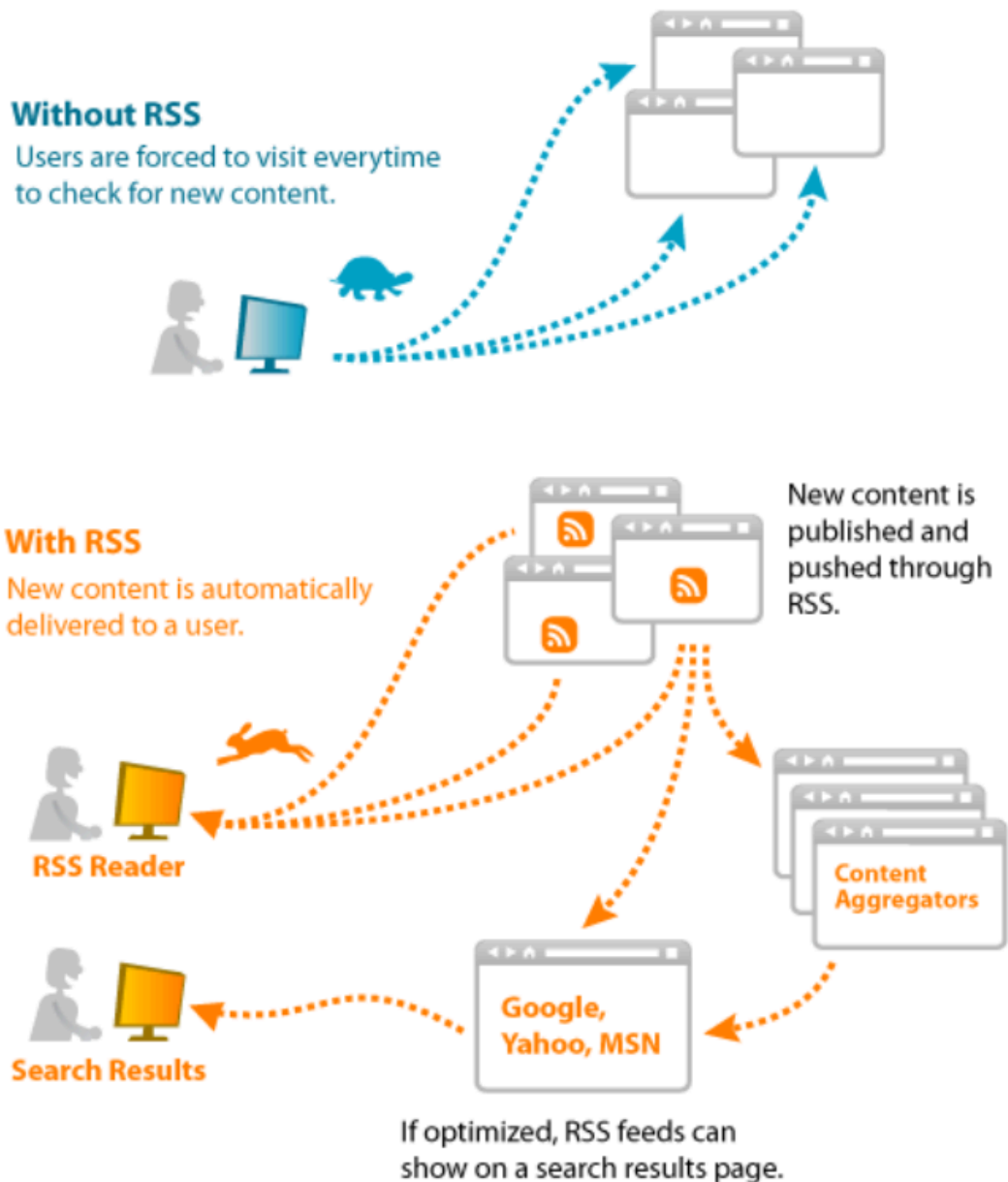
- Many sites publish event feeds with RSS & Atom feeds
- These feeds are machine-readable, not human-readable
- A feed reader presents these feeds in a digestible way to humans.
- An aggregator takes multiple feeds and combines them, such as the [Linux Kernel Planet](#)

1.2 High-Level Overview

- The system is divided into two main components:
- Frontend (Chris & Yanxi)
- Fetches data from the backend API
- Displays articles to users in a structured format
- Allows users to interact and modify their feed preferences
- Backend (Ellis & Gus)
- Polls RSS feeds and stores articles in a database
- Provides a REST API to deliver data to the frontend

1.3 Key Features

- Allow users to register a list of RSS & Atom feeds
- Periodically fetch new articles/entries
- (Potentially) Export aggregate feed to users
- (Potentially) Individual user accounts w/ SSO login



Chapter 2: Implementation Plan

2.1 Technology Stack

- Frontend: Plain HTML, CSS, JavaScript
- Backend: REST API, Database
- Database: User DB and Article/Feed DB
- Cloud Platform: CloudLab for deployment
- Version Control: GitHub repository (public)

2.2 System Components & Responsibilities

- Frontend: Developed by Yanxi and Chris
- Fetches data from the backend API
- Displays user-friendly UI
- Allows user interaction (subscription, feed management)
- Backend: Developed by Ellis and Gus (if applicable)
- Fetches RSS feeds
- Stores data in the database
- Provides REST API endpoints

2.3 Development Roadmap

- Week 1-2: Define requirements, set up GitHub repository
- Week 3-4: Develop frontend wireframes and backend API design
- Week 5-6: Implement database and core functionalities
- Week 7-8: Testing and deployment
- Week 9: Final debugging and documentation

2.4 Challenges and Risk Management

- Potential risks in project execution
- Contingency plans for technical challenges

Yanxi Wei

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EDUCATION

West Chester University of Pennsylvania, West Chester, PA
Bachelor of Science in Computer Science, Graduation: Spring 2025
GPA: 3.9/4.0

Relevant Coursework :

- Computer Science I, II & III
- Foundations of Computer Science
- Data Structures and Algorithms
- Computer Systems
- Computer Security
- Data Science
- Digital Image Processing
- Program Lang Concepts/Paradigm
- Modern Web Applications

Honors and Achievements

- Dean's List, College of the Sciences and Mathematics (Fall 2024)
- Inducted Member of Upsilon Pi Epsilon (UPE) – The International Computer Science Honor Society (Spring 2025)

Technical Skills

- Programming Languages: Java, Python, C
- Web Development: HTML, CSS, JavaScript, REST APIs
- Cloud Technologies: Docker, CloudLab, Virtualization, Containerization
- Tools & Platforms: GitHub, IntelliJ IDEA, PyCharm, VS Code

ACADEMIC PROJECTS

Email Classification and Spam Analysis System, Team Project (Fall 2023)

Role: reader and Parser- Made CSV parser and reader.

Developed a CSV parser and reader for a spam classification system using a bag of words approach. Assisted in training the classifier to identify common words and phrases in spam and ham emails, and calculated accuracy and Euclidean distance metrics.

Worked with team members to integrate CSV reading with algorithm development for classification, ensuring clean data processing and accurate results.

Obesity Analysis Based on Socioeconomic Factors, Personal Project (Fall 2024)

Role: Data Analysis and Visualization

Conducted statistical analysis on the relationship between obesity rates in the U.S. and socioeconomic factors such as age, income, education level, and gender. Utilized the BRFSS dataset from the CDC and applied regression models, ANOVA, and interaction effect analysis to evaluate key influencing variables. Performed data preprocessing, statistical modeling, and visualization to derive insights for public health interventions, ensuring data-driven conclusions.

Additional Information

- Languages: English (Fluent), Chinese (Native)
- Interests: AI technology, Cloud Computing, Web Development, Data Science

GUS JOHANNESSEN

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🌐 www.linkedin.com/in/gus-jo

Professional Summary

Upcoming Computer Science graduate seeking employment. Hands-on experience in full-stack development, Agile workflows, and API integration. Highly motivated and eager to build high-impact software solutions. Strong collaborator with a proven ability to enhance digital experiences and drive engagement through innovative technology.

Education

West Chester University of Pennsylvania

Bachelor of Science in Computer Science

September 2021 – May 2025

West Chester, PA

Experience

JCI

Application Developer

May 2024 - August 2024

West Chester, PA

- Developed full-stack solutions for the Cold Plunge app using Swift and Xcode.
- Collaborated with cross-functional teams in Agile workflows to meet milestones and maintain code quality.
- Enhanced SEO strategies and web traffic analytics to boost user engagement.

Hills Quality Seafood

Sales and Operations Associate

April 2021 – Present

Glen Mills, PA

- Manage customer transactions, product prep, and inventory for smooth operations.
- Took on leadership tasks, optimizing market workflows and managing high-volume holiday operations.
- Coordinated 300+ pre-placed orders, creating efficient systems for logging and retrieval.

Covenant Fellowship Church

Technical Event Support

April 2021 - Present

Glen Mills, PA

- Operate light-board software and train junior technicians.
- Design visual elements to enhance event ambiance and success.

Projects

Cold Plunge App

May 2024 - August 2024

- Developed key features using Swift/Xcode, transitioning from timer-based to real-time stopwatch.
- Collaborated on backend integration with Azure/GitHub for version control and deployment.
- Performed QA testing to identify and resolve bugs, ensuring a polished user interface.

Chesco Association for the Blind and Visually Impaired Website

August 2024 - December 2024

- Collaborated to improve UI/UX for accessibility and user-friendliness.
- Authored documentation for future updates and maintenance.
- Redesigned website pages, enhancing visual appeal and navigation.

Leadership / Campus Involvement

Campus Cru

Sept 2021 - Present

- Plan and execute weekly meetings and community-building events.
- Serve and invest in the community, inspiring others.

Volleyball Coach

Sept 2021 - May 2023

- Trained youth volleyball players, fostering a winning mentality.
- Strengthened the team physically and mentally.

Scouting BSA

Eagle Scout

May 2015 - Mar 2021

Troop 93

- Achieved Eagle Scout and served as a leader on the executive board.
- Demonstrated leadership, service, and perseverance.

Technical Skills

Languages: Java, Swift

Developer Tools: XCode, VS Code, Jupyter Notebook

Technologies/Frameworks: Git, GitHub, Azure DevOps

Ellis Weaver-Kreider

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Work Experience

Production Crew, *Mennoncon*

Kansas City, MO

NATIONAL CONVENTION FOR MENNONITE CHURCH USA

July 2023

- Operated fixed and mobile cameras according to direction of video director
- Mixed audio for subsequent climate summit
- Worked closely with other volunteers and employees to ensure seamless experience for attendees

Tech Crew, *Lancaster Mennonite School*

Lancaster, PA

THRICE-WEEKLY SCHOOL ASSEMBLY AND OUTSIDE EVENTS

August 2017 - June 2023

- Mixed audio for band, orchestra, and external music groups
- Managed slideshows and other graphical content for presenters
- Operated stage lighting system for dance productions
- Operated fixed and mobile cameras
- Mixed video signals for projection and recording
- Worked effectively as part of a team

Drama Production Crew, *Lancaster Mennonite School*

Lancaster, PA

SET CONSTRUCTION, LIGHTING, AND SOUND FOR STAGE PRODUCTIONS

2017 - 2023

- Worked with other students and alumni to construct complex sets including life-size building facades
- Helped lighting engineer hang and remove lighting fixtures
- Worked as primary audio engineer to mix all actors on stage and a band/pit orchestra for musicals
- Assisted Radio Frequency Technicians in miking and de-miking actors
- Operated sound effect system

Honors & Awards

Academic

- AP Scholar with Distinction
- PHEAA Certificate of Merit
- National Merit Scholarship Letter of Commendation

Programming

- 2024 PACISE Programming Competition – First Place
- 2024 International Collegiate Programming Competition – First Place Regional Division 2

Education

West Chester University of Pennsylvania

Pursuing B.S. in Computer Science

AUGUST 2023 - PRESENT

Lancaster Mennonite High School

AUGUST 2019 - JUNE 2023