



LAB 04 - 06.02.2025 - Requirements

Professor : Julio Noe Hernandez Torres

Course:

LIS4012-1

Abraham Yair Silva Figueroa 173089

Luis Julian Alvarez Armenta 163247

Luis Mario Ayala Castellanos 174902

Emilio Ortiz Jaquim 172360

Project Description

The Fake News Classifier App, named Feikometro, is designed to help users detect and classify news articles and headlines as genuine or fake. In the digital era where misinformation spreads rapidly, Feikometro provides a valuable tool for individuals, journalists, and educators to verify content accuracy. The app utilizes Natural Language Processing and Machine Learning techniques to deliver reliable classification and transparency in decision-making.

Project Goals

The Feikometro app aims to combat the spread of fake news by providing users with a reliable tool to verify the authenticity of news articles and headlines in real time. It seeks to promote media literacy, support educators and students in developing critical thinking, and assist journalists and fact-checkers in verifying news efficiently. By fostering transparency and user trust, the app contributes to a more informed and discerning digital community.

Functional Requirements

News Classification:

Users can input news headlines or URLs for classification.

The system provides real-time classification results as "Genuine" or "Fake."

Explanation of Results:

Displays confidence scores and highlights keywords that contributed to the classification.

Shows patterns detected in the article content.

Source Credibility Check:

Analyze the news source's history and reputation.

Generate a credibility score ranging from 0 to 100.

Data Storage:

Save user classification history and feedback using Firebase.

Cross-Platform Support:

The app will be available on Android and iOS devices using React Native.

Real-Time Backend Processing:

Ensure responsive communication between the frontend and backend through Node.js and Express.

Non-Functional Requirements

Performance:

The app should process classification requests in less than 3 seconds.

Scalability:

Support thousands of simultaneous users through Firebase cloud services.

Security:

Secure user input and classification data through encryption and secure APIs.

Usability:

Provide an intuitive and simple user interface for all target audiences.

Transparency:

Offer clear and understandable explanations for classification results.

Reliability:

Maintain a 99% uptime for backend services.

Cross-Platform Compatibility:

Ensure consistent performance on Android and iOS devices.

Deliverable	Description	Due date
Requirements Specifications	<p>You'll be able to log in creating an account or with Gmail account.</p> <p>Users will be able to reset their password if they forgot.</p> <p>There will be a menu that shows verified news.</p> <p>The app must load within 20 seconds with data and wifi.</p> <p>The system must handle up to 20 concurrent users.</p> <p>The app should work on iOS 14+.</p>	Feb 13
UI/UX designs	Create prototypes for the app	Feb 13
Backend dev	API dev, AI training for news detecting	March 20
FrontEnd dev	Mobile app Ui, features and menus specifications	March 20
Testing & QA	User testing, user feedback	March 28
Deployment	Submission to appstore	pending
Post Launch Supp	Bug fixes, community feedback fixes	pending

Perspectiva	Factores clave	Evaluación	Comentarios
Viabilidad Técnica	*Disponibilidad de Tecnologías móviles *Conocimiento Mediano de Machine Learning en Python *Conocimiento en react	Medianamente viable con buen manejo de los tiempos	
Viabilidad de Calendario	Tiempo suficiente	Alta	Riesgo: tiempo insuficiente, contratiempos (otras actividades) requieren más tiempo del esperado.
Viabilidad Operativa	*Equipo capacitado medianamente en machine learning *Capacidad del equipo para desarrollar nuevas habilidades	Altamente viable	Riesgo: sobrestimamos las habilidades del equipo y tenemos que tomar tiempo para aprender las herramientas

Name	Role	Responsibilities
Luis Julian Alvarez Armenta	Project Manager & Backend Developer	Manage project timelines and deliverables. Develop APIs, train AI models for news classification, handle database management, and ensure system scalability.
Abraham Yair Silva Figueroa	Frontend Developer	Develop UI/UX components, implement frontend features, and handle API integration.

Luis Mario Ayala Castellanos	QA Engineer & Tester	Develop and execute test cases, ensure app stability, handle user testing, bug reporting, and quality control processes.
Emilio Ortiz Jaquim	UI/UX Designer	Create user-friendly prototypes and wireframes, design intuitive navigation flows and menus, and ensure the app meets accessibility standards.

Risk	Impact	Mitigation Strategy
App Store Rejection	High	Ensure compliance with Play Store and App Store guidelines for user privacy, security, and content quality.
Data Security Issues	High	Implement encryption, secure APIs, and follow OWASP best practices to protect user data and prevent data breaches.
Delays in Development	Medium	Employ agile development practices, conduct daily standups, and allocate buffer time for unexpected issues.
Compatibility Issues	Medium	Test the app thoroughly on various devices using both emulators and real devices to ensure cross-platform functionality.

