FAKE NEWS DETECTION

- DESIGN DOCUMENT

Contents

Document Version Control

Date	Version	Description	Author

1 INTRODUCTION

1.1 PROJECT DESCRIPTION

The goal of this project is to create a graphical user interface (GUI) web application that could predict whether a news article is fake or not using trained models that have been trained over open-source datasets with the utilisation of Natural Language Processing (NLP) concepts based on the article text content.

1.2 PURPOSE OF THE DOCUMENT

The aim of this document is to provide the design requirements for the application of fake news automatic detection using machine learning and deep learning algorithms.

1.3 SCOPE OF THE DOCUMENT

This document presents the technical architecture which helps the readers to get an overall understanding of design guidelines consisting the functional and non functional requirements ,UML - use case and sequence diagrams etc. for the development of web application.

1.4 INTENDED AUDIENCE

The present document is intended to be read by the following people:

1. Researchers.
2. Students.
3. Software Development Team.

2 FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

4. Get the news text article as input in the text box
5. When the button clicks, it predicts the text whether it is fake or real news
6. The system should have capability to read the news article
7. Pre-process the given input text
8. Extract the features from the text
9. Predict the classification using the trained model
10. Should be able to classify the given text as fake or real
11. Prediction time should be in less time.

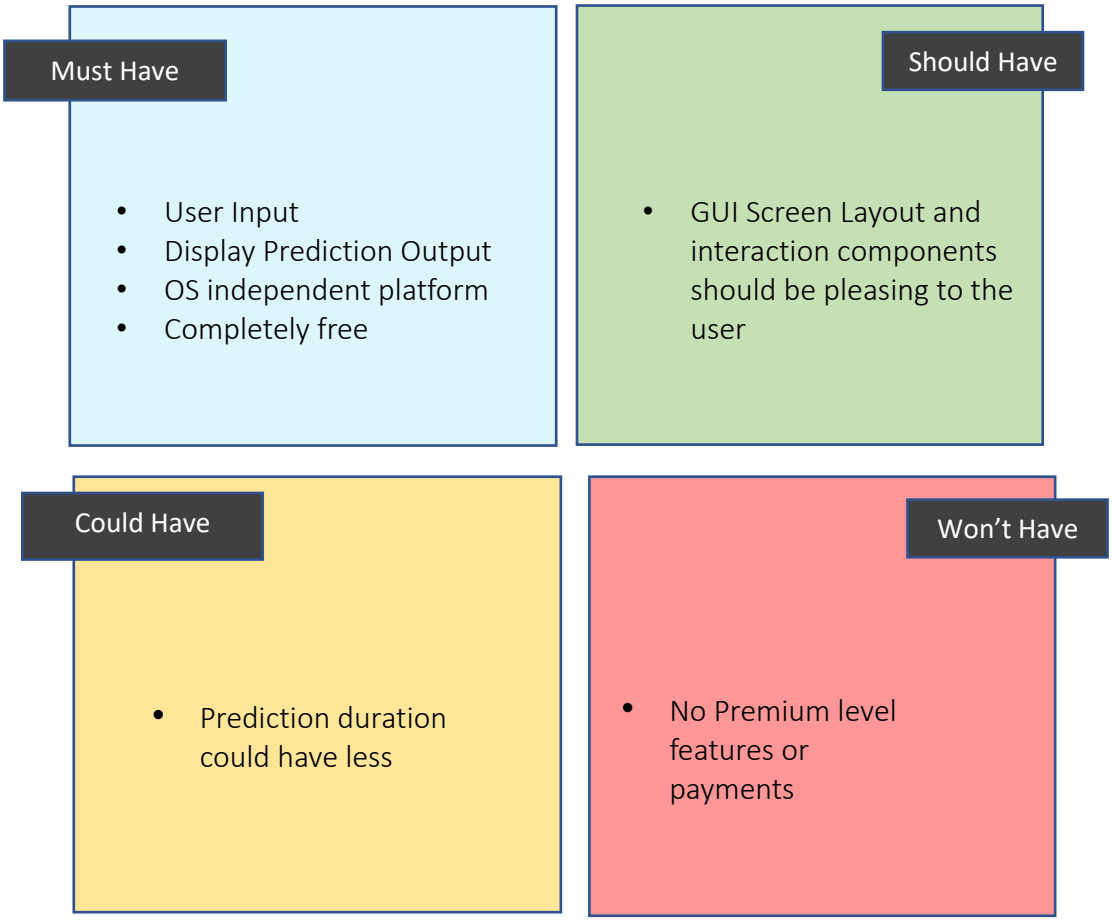
2.2 NON-FUNCTIONAL REQUIREMENTS

1. Non-dependent Platform
2. Reliability
3. Quality
4. Performance

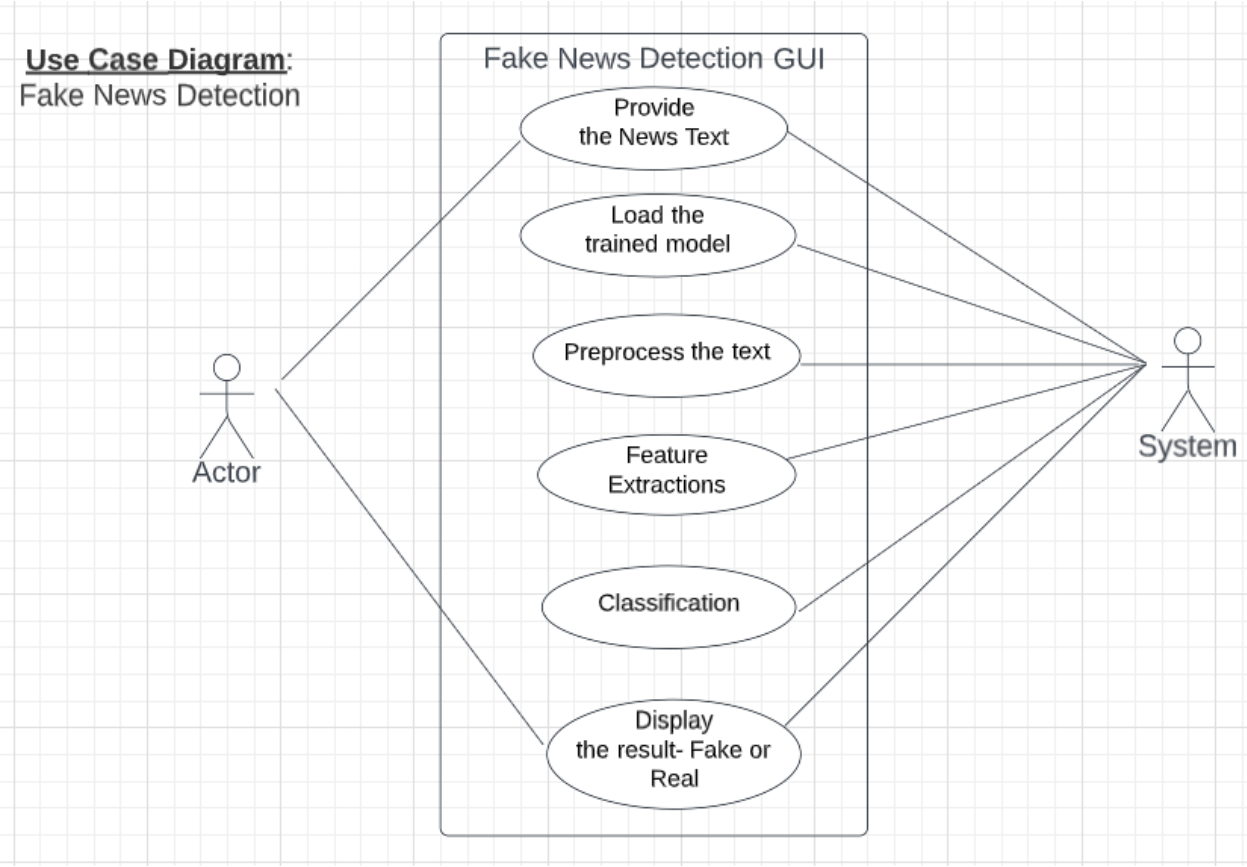
3 MOSCOW - MUST HAVE/SHOULD HAVE/COULD HAVE/WOULD HAVE

Scope:

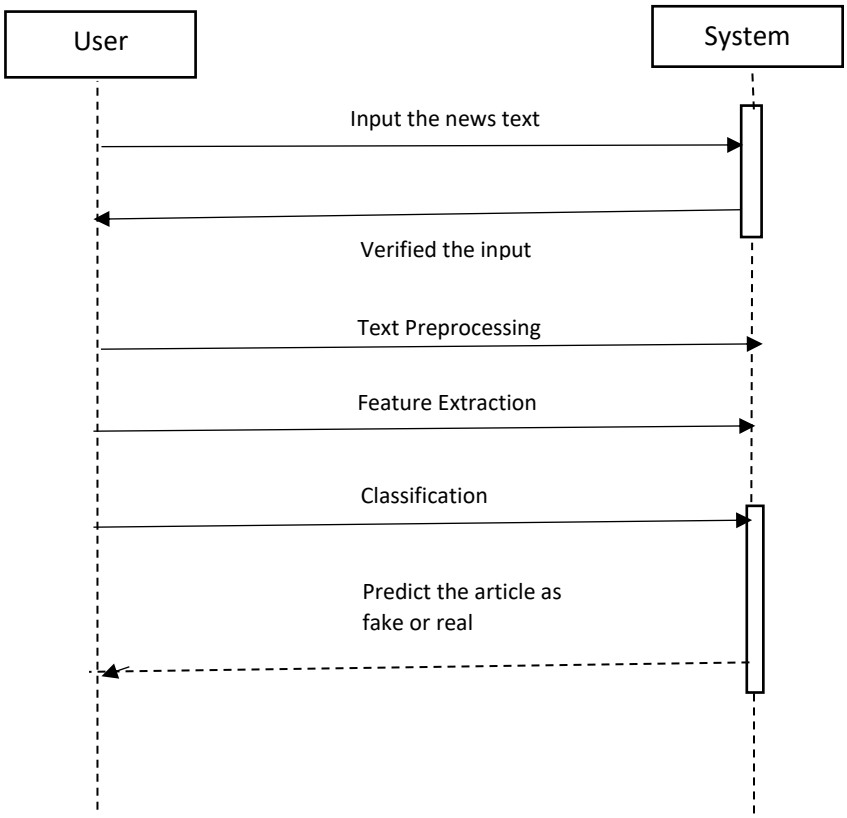
- Analyze the ranking of the product's features
- Prioritize product features, and avoid featuritis(Too Many Product Features)



4 UML - USE CASE DIAGRAM



5 UML - SEQUENCE DIAGRAM



6 UML – ACTIVITY DIAGRAM