November 27, 2023

Table of Contents

[**Introduction**](#_heading=h.gjdgxs) 2

[**Description Model**](#_heading=h.30j0zll) 2

[**Class Diagram**](#_heading=h.1fob9te) 3

[**Use Case Diagram**](#_heading=h.3znysh7) 3

[**Use Case Scenarios**](#_heading=h.2et92p0) 3

[**System Sequence Charts**](#_heading=h.tyjcwt) 3

# **Introduction (SL)**

*The purpose of this requirements document is to provide a detailed description of what Twitter is meant to do such as specifications and expectations. You’ll be provided with the following documents: class diagram, use case diagram, use case scenarios, and system requirements to go over all the functionalities, methods, attributes and uses of our application.*

# **Description Model (SL)**

**Output:**

* **Enhanced User Interface:** Our application strives to provide an improved and visually appealing user interface with intuitive navigation, providing a more enjoyable user experience.
* **Personalized Feeds:** Users should have access to a feed tailored to their interests and preferences, insuring that content displayed is highly relevant to them.
* **Quick Loading Times:** Our application is pushing for faster loading times, that way users can access content swiftly without delays.
* **Enhanced Search Functionality:** The search feature should empower users to find and engage with content more easily, with improved search accuracy and functionality.

**Input Requirements:**

* **User-Generated Content:** Users should be able to create and share thoughts, updates, images, and videos smoothly with their followers. We want it to be user-friendly and efficient.
* **User Preferences / Interests:** We’d like our system to collect and analyze user preferences and interests just to provide a personalized content and recommendations.

**Processes Requirements:**

* **Community Building:** We find online communities and user-to-user relationships important. We want to encourage user engagement and interactions.
* **Viral Content Promotion:** Our application will have the ability to promote viral tweets and content related to user interests, fostering a sense of community and engagement.

**Performance Requirements:**

* **User Retention:** The enhancements should lead to a significant boost in user retention time, keeping users engaged with the platform for longer periods.
* **Data Collection and Analysis:** The system again, collects and analyze user data for advertising and algorithm-related purposes, ensuring accurate targeting and content delivery ONLY.
* **Advertising Profits:** The enhanced advertising features should lead to increased advertising profits through more informed and effective ad campaigns.

**Security Requirements:**

* **User Data Security:** We 100% believe our system must ensure security and privacy of user data, complying with data protection regulations and industry best practices.
* **Content Moderation:** Implement robust content moderation to prevent the spread of harmful or inappropriate content, ensuring a safe and secure environment for users.

In conclusion, the requirements for Twitter application revolve around improving the user experience, increasing user engagement, and optimizing data collection for advertising purposes. These requirements are fundamental in making Twitter a more enjoyable, accessible, and secure platform for users to connect, share, and stay informed while also driving business growth and profitability.

# **Class Diagram**

*twitter\_classDiagram.vsdx*

# **Use Case Diagram**

*twitter\_App\_UseCaseDiagram.vsdx*

# **Use Case Scenarios**

*TwitterUseCaseScenario.xlsx*

# **System Sequence Charts**

*TwitterSSD.vsdx*