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# **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 will have access to a feed tailored to their interests and preferences, ensuring 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 will empower users to find and engage with content more easily, with improved search accuracy and functionality.
* **Hashtag Search:**Make hashtags clickable and searchable, allowing users to discover content related to specific topics or trends easily.Implement a trending hashtags section to showcase popular and currently relevant topics.
* **Content Preview in Search Results:**Display a preview of the content (such as a thumbnail for images or the first few seconds of a video) directly in the search results, giving users a glimpse of what to expect before clicking.

**Input Requirements:**

* **User-Generated Content:** Users will be able to create and share thoughts, updates, images, and videos smoothly with their followers. It will be user-friendly and efficient.
* **User Preferences / Interests:** Our system will 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 will 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 will 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 will 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.
* **Password**: Use a strong password that you don’t use on other websites. Your password should be at least 10 characters long and use a mix of uppercase, lowercase, numbers, and symbols. Be creative and thoughtful with your password choice - it adds an extra layer of security to your account from the start. Will also have the option to use a two factor authentication when signing in (SMS verification & a Push Notification).

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*