**New Idea for Multimedia Filter**

**Overview**

This document outlines a new design for a multimedia filter in a chat application, where images and videos sent between users are scanned for explicit content. The filter will notify the receiver and provide an option to view or reject the content.

**Key Features**

**1. Content Scanning**

* **Automatic Filtering**: All images and videos sent in the chat are automatically scanned for explicit content.
* **Explicit Content Detection**: Uses machine learning models to detect explicit content in multimedia files.

**2. Notifications**

* **Receiver Notification**: If explicit content is detected, the receiver is notified before viewing the content.
* **Option to View or Reject**: The receiver is given the option (YES or NO) to view the content after being informed of its nature.

**3. Privacy and Security**

* **Secure Scanning**: Ensure that the scanning process respects user privacy and data security.
* **Content Encryption**: Maintain end-to-end encryption for all multimedia files.

**Model Explanation**

**Content Scanning**

* **Machine Learning Model**: Implement a pre-trained model for detecting explicit content in images and videos.
* **Scanning Process**: Multimedia files are scanned on the server side before being delivered to the receiver.

**Notifications**

* **Notification Trigger**: If explicit content is detected, trigger a notification to the receiver.
* **User Interface**: Display a notification with options (YES or NO) to view or reject the content.

**Privacy and Security**

* **Data Privacy**: Ensure that the scanning process does not compromise user privacy.
* **End-to-End Encryption**: Maintain encryption throughout the scanning and delivery process.

**Model Example**

json

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{

"\_id": "unique\_chat\_id",

"participants": [

"user\_id\_1",

"user\_id\_2"

],

"messages": [

{

"message\_id": "unique\_message\_id\_1",

"sender\_id": "user\_id\_1",

"receiver\_id": "user\_id\_2",

"content": null,

"content\_type": "image",

"content\_link": "https://example.com/image.jpg",

"timestamp": "2024-06-01T10:00:00Z",

"is\_read": false,

"is\_explicit": true,

"explicit\_check": {

"status": "pending",

"decision": null

}

}

],

"settings": {

"content\_filter": true

}

}

**Example Workflow**

1. **User A** sends an image to **User B**.
2. The image is uploaded to the server and scanned for explicit content using a machine learning model.
3. If explicit content is detected, a notification is sent to **User B** with an option (YES or NO) to view the image.
4. **User B** decides whether to view or reject the image based on the notification.
5. If **User B** selects YES, the image is displayed. If NO, the image is not shown and is deleted.

**Benefits**

* **Enhanced Safety**: Users are protected from unwanted explicit content.
* **User Control**: Receivers have control over whether they want to view potentially explicit content.
* **Trust and Security**: Builds trust in the platform by ensuring a safer communication environment.

**Future Enhancements**

* **Customizable Filters**: Allow users to set their own preferences for content filtering.
* **Detailed Reporting**: Provide detailed reports to users about the types of content being filtered.
* **Real-Time Feedback**: Implement real-time feedback mechanisms to improve the accuracy of the content filter.

**Conclusion**

The Multimedia Filter is designed to offer a safer and more controlled communication experience within your dating app. By implementing this feature, users can enjoy a secure environment where they have the choice to view or reject potentially explicit content, enhancing overall user trust and satisfaction.