**User Stories of Mega Project Modulewise**

Trending News User Stories

User stories are brief, narrative descriptions used in software development to capture the requirements and needs of end-users. Each user story represents a specific feature or functionality from the user's perspective. Let's delve into each user story in more detail:

**As Journalist :-**  I want to fetch tweets from specific Twitter accounts so that I can gather the latest news from trusted sources for analysis.

* Implement Twitter API authentication to access the required accounts.
* Set up a scheduled task to fetch tweets periodically for continuous updates.
* Define criteria to filter tweets based on trusted sources and relevant topics.

**As User :-** I want to filter relevant tweets based on specific hashtags and keywords so that I can focus on trending news topics that match my interests.

* Design a user-friendly interface to input hashtags and keywords for filtering.
* Implement the filtering logic to match tweets containing the specified hashtags and keywords.
* Display the filtered tweets to the user in a readable format.

**As a User :-** I want the trending news classifier to display the identified trending news topics along with relevant engagement metrics so that I can quickly access and stay updated on popular news.

* Implement a dynamic and responsive view to update the trending news list in real-time.
* Allow users to click on a news topic to view the related tweets and engagement details.

**As a News Publisher :-** I want to track the engagement metrics of articles shared on Twitter to gauge their popularity and identify trending articles.

* Integrate with the Twitter API to track engagement metrics for articles shared on Twitter.
* Allow filtering and sorting options to identify trending articles based on engagement metrics.

**USER STORIES:**

**VIDEO PATTERN,**

**CATEGORIZATION AND SCREENING**

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| **User story name:** Video Upload and Preprocessing | |
| **User story** | As a user, I want to be able to upload video files or provide streaming links from various sources to the VPCSM interface. The system should accept a wide range of video formats and codecs to ensure flexibility and compatibility. Additionally, upon receiving the video input, the VPCSM should employ a preprocessing module to standardize the data. This preprocessing step is crucial for enhancing the overall video quality and addressing any potential inconsistencies in frame rates, resolutions, or encoding formats. |

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| **User story name:** Video Pattern Analysis | |
| **User story** | As a user, I want the VPCSM to identify and extract specific patterns, objects, or actions within video content. The system should utilize advanced computer vision techniques and deep learning algorithms for accurate pattern recognition. It should include functionalities like object detection, action recognition, and anomaly detection. Object detection algorithms should be able to locate and recognize objects like people, vehicles, or animals in video frames. Action recognition should enable the system to understand and categorize human actions and gestures. Anomaly detection should help identify unusual or irregular patterns, such as nudity, violence, or bloodshed, that may indicate potential threats or abnormalities. |

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| **User story name:** Content Moderation and Filtering | |
| **User story** | As a user, I want the VPCSM to allow custom screening criteria based on specific tags, patterns, or classifications. This feature will enable content moderation to ensure that videos are classified appropriately for specific audiences and comply with regulatory guidelines. The system should use predefined rules and classifiers for automated content filtering, identifying and filtering out inappropriate content. Moreover, for applications that require real-time analysis, the VPCSM should have the option to be equipped with a real-time monitoring module. This module can analyze live video streams for immediate action and response, enhancing user safety. |

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| **User story name:** Sentiment Analysis from Video | |
| **User story** | As a user, I want the VPCSM to perform sentiment analysis on the video's audio and visual content. The system should employ various methods to extract relevant information from the video, including speech recognition, facial expression analysis, visual scene analysis, and natural language processing (NLP) techniques. By combining information from both the audio and visual channels, the VPCSM can provide a holistic view of the emotions conveyed in the video. Multimodal sentiment analysis will enhance the accuracy of sentiment analysis results. |

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| **User story name:** Video Categorization | |
| **User story** | As a user, I want the VPCSM to categorize news videos based on various criteria. This includes categorizing videos by subject, geographical location, language, and emotional tone. The system should utilize machine learning algorithms, such as Hidden Markov Models (HMM), Long Short-Term Memory (LSTM), and Convolutional Neural Networks (CNN), to perform video categorization. The VPCSM should be capable of adapting to different domains and be easily customizable for specific use cases. |

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| **User story name:** Legal and Copyright Compliance | |
| **User story** | As a user, I want the VPCSM to comply with legal and copyright regulations when analyzing video content. The system should implement content filtering mechanisms to identify and flag any copyrighted materials within the videos, ensuring that unauthorized usage is prevented. The VPCSM should collaborate with content creators or copyright holders to obtain proper permissions and licensing agreements for using copyrighted materials. Users and content creators should be educated about copyright regulations and the importance of adhering to intellectual property rights. |

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| **User story name:** Model Selection and Optimization | |
| **User story** | As a user, I want the VPCSM to utilize appropriate machine learning models and algorithms for different tasks within the video analysis pipeline. The system should employ Hidden Markov Models (HMMs) for temporal pattern modeling, Long Short-Term Memory (LSTM) networks for sequential data analysis, and Convolutional Neural Networks (CNNs) for image-based feature extraction. The VPCSM should regularly monitor model performance and conduct optimization techniques like cross-validation and data augmentation to prevent overfitting and ensure generalization to unseen data. |

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| **User story name:** Speech-to-Text Model Training | |
| **User story** | As a user, I want the VPCSM to be equipped with a customizable Speech-to-Text Model that can be trained with specific domain data to improve transcription accuracy. The system should provide options to fine-tune the model with labeled datasets, incorporating diverse accents, dialects, and speech patterns to ensure robustness. The VPCSM should leverage transfer learning and pre-trained models to reduce the need for extensive training data and expedite the model development process. |

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| **User story name:** Real-Time Monitoring and Action | |
| **User story** | As a user, I want the option to enable real-time monitoring and analysis of live video streams with the VPCSM. The system should be equipped with the necessary hardware and algorithms to process video data on-the-fly, enabling immediate actions and responses to potential threats or abnormal patterns. Real-time monitoring is crucial for applications where quick decisions and interventions are required, such as security surveillance and event management. |

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| **User story name:** Abnormality Detection | |
| **User story** | As a user, I want the VPCSM to be capable of identifying unusual events or anomalies within video content. The system should employ unsupervised learning methods like one-class SVM, Isolation Forest, or autoencoders to detect deviations from typical patterns. Abnormality detection is essential for security and safety applications, enabling the early detection of potential threats or harmful content. |

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| **User story name:** Video Summarization | |
| **User story** | As a user, I want the VPCSM to provide video summarization capabilities, generating concise summaries of longer videos. The system should use clustering algorithms like K-means or hierarchical clustering to select key frames or sequences that represent the main content of the video. Video summarization simplifies content browsing and enhances user experiences by providing quick overviews of lengthy videos. |

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| **User story name:** Content-Based Video Retrieval | |
| **User story** | As a user, I want the VPCSM to enable content-based video retrieval, allowing me to index and retrieve videos based on their visual or audio content. The system should extract feature embeddings from CNNs or other deep learning models and utilize similarity search algorithms like k-Nearest Neighbors (k-NN) to retrieve videos with similar content. Content-based video retrieval enhances content discovery and recommendation systems, improving user engagement. |

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| **User story name:** Customizable Screening Criteria | |
| **User story** | As a user, I want the VPCSM to allow me to set custom screening criteria based on specific tags, patterns, or classifications. The system should enable content moderators to define rules and classifiers to identify and filter out inappropriate or undesirable content automatically. Customizable screening criteria are crucial for maintaining content quality, adhering to regulatory guidelines, and ensuring a safe user experience. |

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| **User story name:** Flexibility in Pattern Detection | |
| **User story** | As a user, I expect the VPCSM to be flexible in pattern detection and extraction capabilities. The system should allow fine-tuning of the computer vision models to cater to different use cases and video content. Users should have the option to customize the system for identifying specific objects, detecting anomalies, recognizing human gestures, or any other specialized patterns relevant to their application. |

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| **User story name:** Multilingual Support | |
| **User story** | As a user, I want the VPCSM to support multilingual video content analysis. The system should be capable of processing videos in different languages and performing speech-to-text conversion accurately. Multilingual support is essential for global applications, news platforms, or any content that caters to diverse language-speaking audiences. |

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| **User story name:** Real-Time Content Moderation | |
| **User story** | As a user, I expect the VPCSM to provide real-time content moderation capabilities. The system should analyze live video streams for immediate action and response to any inappropriate or harmful content. Real-time content moderation is critical for maintaining a safe and secure environment on platforms that allow user-generated content or live streaming. |

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| **User story name:** Collaboration and Integration | |
| **User story** | As a user, I want the VPCSM to support collaboration and integration with other relevant systems and tools. The system should provide APIs and data formats that allow seamless data exchange with external applications, content management systems, or analytics platforms. Collaboration and integration capabilities will enable users to leverage the VPCSM's video analysis results in conjunction with other tools, enhancing their workflow efficiency and decision-making processes. |

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| **User story name:** Support for Various Video Formats and Codecs | |
| **User story** | As a user, I expect the VPCSM to support a wide range of video formats and codecs for input. The system should be able to process videos in popular formats like MP4, AVI, MOV, and more. Additionally, it should be compatible with various video codecs to ensure that users can analyze videos from different sources without the need for extensive format conversion. |

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| **User story name:** Ethical Content Classification | |
| **User story** | As a user, I want the VPCSM to adhere to ethical content classification standards. The system should avoid making biased or discriminatory classifications based on factors like race, gender, religion, or political affiliations. It should follow ethical guidelines and ensure that content categorization is based solely on the objective attributes and characteristics of the video content. |

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| **User story name:** Continuous Improvement through User Feedback | |
| **User story** | As a user, I expect the VPCSM to incorporate user feedback into its continuous improvement process. The system should have mechanisms for users to provide feedback on the accuracy of classifications, sentiment analysis, and overall performance. Regular feedback analysis will help identify areas for improvement, refine the algorithms, and enhance the system's effectiveness over time. |

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| **User story name:** Online and Offline Processing | |
| **User story** | As a user, I want the VPCSM to support both online and offline video processing capabilities. The system should be able to analyze live video streams in real-time for immediate content moderation and decision-making. Simultaneously, it should also provide options for users to upload pre-recorded videos for in-depth analysis and content categorization offline. |

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| **User story name:** Cross-Platform Accessibility | |
| **User story** | As a user, I expect the VPCSM to be accessible across various platforms, including desktop computers, mobile devices, and tablets. The system should have responsive design elements that adapt to different screen sizes, ensuring a consistent and user-friendly experience regardless of the device used to access it. |

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| **User story name:** Transparent Data Handling and Storage | |
| **User story** | As a user, I want the VPCSM to provide transparency in data handling and storage practices. The system should clearly communicate how user data, video content, and analysis results are processed, stored, and utilized. Transparent data practices instill trust in users, assuring them that their information is treated responsibly and securely. |

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| **User story name:** Multimodal Sentiment Analysis | |
| **User story** | As a user, I expect the VPCSM to perform multimodal sentiment analysis by combining information from both audio and visual channels. The system should leverage data from speech recognition, facial expression analysis, scene analysis, and other sources to gain a more comprehensive understanding of the emotions conveyed in the video content. Multimodal sentiment analysis will result in more accurate and nuanced sentiment scores, enriching the analysis results. |

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| **User story name:** Real-Time Alerts and Notifications | |
| **User story** | As a user, I want the VPCSM to provide real-time alerts and notifications for specific events or patterns detected in the video content. The system should be capable of identifying critical situations or anomalies promptly and trigger notifications to relevant stakeholders. Real-time alerts will enable users to take immediate actions, such as content takedown, emergency response, or further investigation, when necessary. |

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| **User story name:** Compliance with Industry Standards | |
| **User story** | As a user, I expect the VPCSM to comply with relevant industry standards for video analysis and content moderation. The system should adhere to ethical, legal, and regulatory guidelines related to data privacy, content categorization, and user protection. Compliance with industry standards will ensure that the VPCSM meets the necessary requirements for deployment in various professional settings. |

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| **User story name:** Customizable Content Moderation Rules | |
| **User story** | As a user, I expect the VPCSM to allow customization of content moderation rules and classifiers. The system should provide an intuitive interface where users can define their own criteria for filtering and screening video content. Customizable content moderation rules will ensure that the VPCSM aligns with each organization's specific guidelines and policies. |

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| **User story name:** Incremental Training for Improved Accuracy | |
| **User story** | As a user, I want the VPCSM to support incremental training of its machine learning models. The system should allow users to periodically update and retrain the models with new data to adapt to evolving patterns and improve accuracy. Incremental training will enable the VPCSM to continuously learn and stay up-to-date with the latest trends and patterns in video content. |

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| **User story name:** Scalability and Performance Optimization | |
| **User story** | As a user, I expect the VPCSM to be scalable and capable of handling a large volume of video content efficiently. The system should optimize its performance to process videos in parallel, ensuring timely analysis and classification even during peak usage periods. Scalability and performance optimization will prevent bottlenecks and maintain smooth operations as the user base and video content grow. |

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| **User story name:** Detailed Analytics and Insights | |
| **User story** | As a user, I expect the VPCSM to provide detailed analytics and insights derived from video content analysis. The system should generate comprehensive reports and visualizations that offer valuable information about the distribution of patterns, sentiments, and content categories within the analyzed videos. Detailed analytics will help content creators, marketers, and researchers make data-driven decisions and understand their audience better. |

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| **User story name:** Interoperability with Existing Tools | |
| **User story** | As a user, I want the VPCSM to be interoperable with existing tools and workflows used by my organization. The system should allow seamless integration with content management systems, video platforms, analytics tools, or other relevant applications, streamlining the overall content analysis and management process. |

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| **User story name:** Extensive Documentation and Training Resources | |
| **User story** | As a user, I expect the VPCSM to provide extensive documentation and training resources. The system should offer detailed user guides, API documentation, and tutorials to assist users in understanding the features and functionalities. Comprehensive training resources will empower users to make the most out of the VPCSM and leverage its capabilities effectively. |

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| **User story name:** Support for Video Content Streaming | |
| **User story** | As a user, I expect the VPCSM to support video content streaming for real-time analysis. The system should be capable of processing live video streams and providing instantaneous feedback. Support for video content streaming will cater to applications that require immediate action and response, such as live event moderation and safety monitoring. |

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| **User story name:** Compliance with Content Regulations | |
| **User story** | As a user, I want the VPCSM to ensure compliance with content regulations and guidelines. The system should be able to identify and flag content that violates legal or platform-specific guidelines, helping users avoid potential legal consequences or content removals. Compliance with content regulations will safeguard users from inadvertently hosting inappropriate or prohibited content. |

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| **User story name:** Integration with Cloud Services | |
| **User story** | As a user, I expect the VPCSM to integrate with popular cloud services. The system should be compatible with cloud-based storage, computing, and analytics platforms, allowing users to leverage the benefits of cloud infrastructure. Integration with cloud services will enable scalability, cost-effectiveness, and seamless access to the VPCSM's functionalities. |

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| **User story name:** Transparent Explainability | |
| **User story** | As a user, I want the VPCSM to provide transparent explainability for its analysis outcomes. The system should be able to justify its decisions and provide insights into how it arrived at certain classifications or sentiments. Transparent explainability will build user trust in the VPCSM's results and facilitate better understanding of its inner workings. |

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| **User story name:** Comprehensive Error Handling and Reporting | |
| **User story** | As a user, I expect the VPCSM to have comprehensive error handling and reporting mechanisms. The system should log and report errors encountered during video analysis and provide clear messages to users when issues occur. Comprehensive error handling will assist users in troubleshooting and resolving problems effectively. |

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| **User story name:** Customizable Content Moderation Rules | |
| **User story** | As a user, I want the VPCSM to allow me to set customizable content moderation rules based on my specific requirements. The system should provide options to define and adjust the criteria for filtering and evaluating videos. This customization will enable me to align content screening with the unique needs of my platform or audience, ensuring that inappropriate or sensitive content is appropriately handled. |

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| **User story name:** Collaborative Moderation and Annotation | |
| **User story** | As a user, I want the VPCSM to facilitate collaborative moderation and annotation of video content. The system should provide a platform where multiple moderators can work together to review, classify, and tag videos. Collaborative features will enhance efficiency, reduce the workload on individual moderators, and ensure accurate content categorization. |

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| **User story name:** Support for Multiple Video Sources | |
| **User story** | As a user, I want the VPCSM to support multiple video sources for analysis. The system should be able to analyze video content from various platforms, devices, and sources, including social media, streaming services, and user-uploaded videos. Support for multiple video sources will offer flexibility and broad application possibilities. |

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| **User story name:** Transparent Data Handling and Storage Policies | |
| **User story** | As a user, I expect the VPCSM to have transparent data handling and storage policies. The system should clearly communicate how data is processed, stored, and used throughout the analysis pipeline. Transparent data policies will foster trust among users and ensure compliance with data protection regulations. |

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| **User story name:** Inclusive Content Analysis | |
| **User story** | As a user, I want the VPCSM to perform inclusive content analysis that considers diverse voices and perspectives. The system should avoid bias in its analysis and classification, promoting fairness and equity in content representation. Inclusive content analysis will support diverse content creators and foster an inclusive online environment. |

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| **User story name:** Integration with Existing Video Platforms | |
| **User story** | As a user, I want the VPCSM to seamlessly integrate with existing video platforms and content management systems. The system should provide APIs and compatibility with popular video hosting platforms, making it easy to incorporate video analysis and classification into my current workflows. Integration with existing platforms will save time and resources, enabling a smooth transition to using the VPCSM's advanced features. |

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| **User story name:** Automated Reporting and Analytics | |
| **User story** | As a user, I expect the VPCSM to generate automated reports and analytics on video content. The system should provide comprehensive insights into the distribution of different patterns, emotions, and themes within the video dataset. Automated reports will assist content creators, advertisers, and researchers in understanding audience preferences, engagement levels, and trends. |
| **User story name:** Customizable Content Filtering Rules | |
| **User story** | As a user, I expect the VPCSM to offer customizable content filtering rules to tailor the screening process according to my specific requirements. The system should allow me to define rules based on keywords, tags, or patterns to filter out content that may not align with my platform's guidelines. |

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| **User story name:** Customizable Sentiment Analysis Categories | |
| **User story** | As a user, I expect the VPCSM to allow customization of sentiment analysis categories to align with my specific use cases and industry domain. The system should enable me to define sentiment labels that best reflect the emotional tones and reactions relevant to my video content. |

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| **User story name:** Integration with Social Media Platforms | |
| **User story** | As a user, I want the VPCSM to integrate seamlessly with popular social media platforms, allowing me to analyze and screen video content from social media feeds. The system should support APIs or plugins for platforms like Facebook, Twitter, Instagram, and YouTube, enabling me to manage and moderate content from these sources efficiently. |

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| **User story name:** Historical Video Analysis | |
| **User story** | As a user, I expect the VPCSM to provide historical video analysis capabilities, allowing me to analyze archived or previously uploaded videos for valuable insights and sentiment trends. The system should offer advanced search and filtering options to retrieve and analyze videos based on specific timeframes, topics, or user interactions. |

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| **User story name:** Emotion-Driven Content Tagging | |
| **User story** | As a user, I want the VPCSM to automatically tag video content based on the dominant emotions detected within the video. The system should assign relevant emotion-based tags, such as "Happy," "Sad," "Excited," "Angry," etc., to facilitate emotion-driven content discovery and categorization. |

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| **User story name:** Sentiment-Based Content Moderation | |
| **User story** | As a user, I expect the VPCSM to incorporate sentiment analysis results in the content moderation process. The system should consider sentiments expressed in the video to determine the appropriate content rating or moderation actions, ensuring that content aligns with the intended audience's emotional sensitivities. |

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| **User story name:** Insights for Content Optimization | |
| **User story** | As a user, I expect the VPCSM to provide actionable insights for optimizing video content. The system should analyze sentiment data and identify areas for improvement, such as enhancing emotional engagement, refining content messaging, and tailoring content for specific target audiences. |

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| **User story name:** Accessibility Features | |
| **User story** | As a user, I expect the VPCSM to incorporate accessibility features, such as closed captioning and audio descriptions, to make video content more inclusive and accessible to users with hearing or visual impairments. The system should support the automatic generation of closed captions and audio descriptions to enhance the video-watching experience for all users. |

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| **User story name:** Enhanced Anomaly Detection | |
| **User story** | As a user, I want the VPCSM to continuously improve its anomaly detection capabilities by leveraging artificial intelligence and machine learning techniques. The system should adapt and learn from new patterns and emerging threats, ensuring robust detection of unusual or harmful content to maintain a safe and secure environment for users. |

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| **User story name:** Fraud Detection and Content Authenticity | |
| **User story** | As a platform administrator, I expect the VPCSM to include fraud detection mechanisms and verify the authenticity of video content. The system should flag and report potentially fraudulent or manipulated videos, helping to maintain the platform's credibility and trustworthiness. |

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| **User story name:** Integration with Video Editing Tools | |
| **User story** | As a user, I want the VPCSM to seamlessly integrate with video editing tools. The system should provide an API or plugin that allows users to analyze and categorize video content directly within their video editing workflows. Integration with video editing tools will streamline content management and enhance content creators' productivity. |

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| **User story name:** Bias Detection and Mitigation | |
| **User story** | As a user, I want the VPCSM to include bias detection and mitigation mechanisms. The system should be capable of identifying and mitigating potential biases in content classification and sentiment analysis results. By addressing biases, the VPCSM will ensure fair and unbiased treatment of all video content and contribute to responsible content management. |

**User Stories News Sentiment Analysis**

\*\* Here there are different role are as per the task but will performed by the News sentiment analysis team\*\*

**User Story: News Sentiment Developer Team - Enhancing Sentiment Analysis for News Aggregation**

This is the link for the visual flow Diagram where these user stories will takes place

Link :[**Click on this**](https://www.figma.com/file/X69m6FBb98Cobcfl5s5iY8/file?type=whiteboard&node-id=0-1&t=AOOKBMydMON9LzWk-0)

1. **Data Collection User Story:**
   1. As a developer, I collaborate with data acquisition specialists to obtain text data from video transcripts, extracting information about the video's content and audio.
   2. I work with the team to gather text data from trending news articles, including information about the news category and source.
2. **Data Preprocessing User Story:**
   1. As a data engineer, I take responsibility for cleaning and preprocessing the text data obtained from video transcripts and news articles.
   2. I perform advanced tasks such as tokenization, lowercasing, and removing stop words to ensure the data is ready for sentiment analysis.
   3. Additionally, I handle any data normalization or standardization required to enhance the quality of the text data.
   4. The processed data will be made available to the data analysis team for further sentiment analysis and other NLP tasks.
3. **Sentiment Analysis for Video Transcripts User Story:**
   1. As a data scientist, my objective is to conduct sentiment analysis on the text data extracted from video transcripts.
   2. I will apply advanced Natural Language Processing (NLP) techniques to analyze the emotional tone of the video transcripts.
   3. Collaborating with NLP experts, we will select and employ a suitable sentiment analysis model such as LSTM or CNN to achieve accurate results.
   4. The sentiment analysis will categorize the video transcripts into positive, neutral, or negative sentiments, providing valuable insights for further analysis and decision-making.
4. **Sentiment Analysis for News Articles User Story:**
   1. As a data scientist, my focus is on performing sentiment analysis on the text data extracted from news articles.
   2. Collaborating closely with NLP specialists, we will leverage state-of-the-art sentiment analysis models such as BERT and GPT to achieve accurate and reliable results.
   3. The sentiment analysis will categorize the sentiments of news articles into positive, neutral, or negative, providing valuable insights into public opinion and emotional responses to news events.
   4. These analyzed sentiments will be further utilized for various applications, such as trend analysis, opinion mining, and sentiment-driven decision-making.
5. **Integration and News Generation User Story:**
   1. As a software engineer, I collaborate with the news generation team to integrate advanced sentiment analysis (e.g., BERT, GPT) with the automated news generator.
   2. The automated news generator utilizes sentiment analysis results to categorize and generate news articles with appropriate emotional context.
   3. Continuous iterations based on sentiment analysis insights improve the news generation process, enhancing accuracy and relevance.
6. **Visualization of Sentiment Analysis Results User Story:**
   1. As a frontend developer, I collaborate with data visualization experts to create a user-friendly interface for displaying sentiment analysis results.
   2. The interface will present sentiment scores and emotional categories using interactive charts or graphs, providing users with a clear understanding of the sentiment associated with news articles.
   3. By leveraging technologies such as D3.js or Chart.js, we will ensure an engaging and informative visualization of the sentiment analysis data, enhancing the overall user experience.
7. **User Personalization User Story:**
   1. As a backend developer, I collaborate with user experience specialists to implement a user personalization feature for sentiment analysis.
   2. Users will be able to set their preferences based on topics or categories of interest for sentiment analysis.
   3. Leveraging technologies like user profiles and data storage, the system will provide personalized sentiment analysis updates to users, tailoring the content to their specific interests and enhancing their overall experience
8. **Verification of News Sources User Story:**
   1. As a data engineer, I collaborate with the data verification team to implement a mechanism that ensures the authenticity and credibility of news articles for accurate sentiment analysis.
   2. The mechanism will verify news sources and flag or exclude unverified or potentially unreliable news articles from the sentiment analysis results.
   3. By utilizing technologies like web scraping and source credibility databases, we will enhance the reliability and integrity of the sentiment analysis process, providing users with more trustworthy and accurate insights.
9. **Error Handling and Exception Management User Story:**
   1. As a developer, I collaborate with the quality assurance team to ensure effective error handling and exception management during sentiment analysis processing.
   2. The system will be equipped to handle unexpected issues or failures gracefully, providing clear and informative error messages to assist users in understanding the nature of errors.
   3. Through rigorous testing and continuous improvement, we will enhance the system's resilience and reliability, ensuring a smooth and error-free sentiment analysis experience for users

**User Story: Enhancing News Sentiment Analysis - Part 2**

As a member of the News Sentiment Developer Team, we want to further improve the sentiment analysis capabilities of the News Aggregation Platform to provide users with more comprehensive and granular insights into emotional trends. Here are the user stories to achieve this goal:

1. **Data Storage and Management User Story:**
   1. As a data engineer, ensure secure and compliant data storage for sentiment analysis data.
   2. Optimize data storage and management processes for efficient retrieval and analysis.
   3. Implement robust access controls to safeguard sentiment data.
   4. Ensure seamless integration with the sentiment analysis module for data accessibility.
2. **Reporting and Analytics User Story:**
   1. As a data scientist, generate comprehensive sentiment analysis reports and analytics.
   2. Provide insights into emotional trends through these reports.
   3. Present sentiment analysis trends and patterns to content creators, journalists, and stakeholders for decision-making.
   4. Help them understand the emotional impact of news articles and video content, enabling informed content creation and strategy.
3. **Feedback and Validation User Story:**
   1. As a developer, collaborate with the user feedback team to gather user feedback on sentiment analysis results.
   2. Conduct validation exercises to ensure accuracy and reliability of sentiment analysis outcomes.
   3. Constantly refine sentiment analysis models based on user inputs and validation results.
   4. Strive for continuous improvement in sentiment analysis to meet user needs and expectations.
4. **Entity Recognition and Named Entity Analysis User Story:**
   1. As a data scientist, implement entity recognition techniques to identify and extract entities from news articles and video transcripts.
   2. Analyze the sentiment associated with each entity to provide more granular sentiment insights.
   3. Enable users to understand how specific entities (e.g., people, organizations, locations) are perceived in the news, enhancing the depth of sentiment analysis.
5. **Emotion Analysis User Story:**
   1. As a data scientist, enhance the sentiment analysis module with emotion analysis capabilities.
   2. Implement algorithms to detect emotions conveyed in the text data, such as joy, sadness, anger, fear, etc.
   3. Provide users with deeper emotional insights beyond positive, neutral, or negative sentiments, enabling a more nuanced understanding of the emotional context in news articles and video transcripts.
6. **Aspect-Based Sentiment Analysis User Story:**
   1. As a data scientist, extend the sentiment analysis to perform aspect-based sentiment analysis.
   2. Implement techniques to identify sentiments towards specific aspects or features within news articles and video transcripts.
   3. Provide users with a breakdown of sentiment scores for different aspects, offering a more detailed understanding of emotional responses to specific topics.
   4. Enrich the sentiment analysis module to deliver more granular insights, enhancing the value and depth of emotional understanding for users.
7. **Sentiment Trend Analysis User Story:**
   1. As a data scientist, conduct sentiment trend analysis over time to identify changes in emotional tone across various topics or events.
   2. Utilize time-series analysis techniques to analyze sentiment trends.
   3. Visualize and present sentiment trends to users, enabling them to track emotional shifts in the news over time.
   4. Provide users with valuable insights into the evolving emotional landscape, aiding in the understanding of long-term sentiment patterns and their impact on news content.
8. **Multilingual Sentiment Analysis User Story:**
   1. As a developer, improve language support by extending the sentiment analysis module to handle multiple languages beyond English.
   2. Utilize either multilingual sentiment analysis models or implement text data translation to the primary language for sentiment analysis.
   3. Enable users to access sentiment insights from a wide range of sources, regardless of the language of the content.
   4. Enhance the sentiment analysis module's versatility, providing a more inclusive and comprehensive analysis of sentiments from diverse linguistic sources.
9. **Sentiment Analysis for Social Media Data User Story:**
   1. As a data engineer, collaborate with social media data specialists to expand data collection to include social media data related to trending topics.
   2. Apply sentiment analysis to social media content to capture public sentiment and reactions.
   3. Offer users a broader view of emotional responses across various platforms, providing a comprehensive understanding of sentiments related to trending topics in social media.
   4. Enhance the sentiment analysis system by incorporating social media data, delivering valuable insights for users and supporting decision-making processes based on public sentiment.
10. **Sentiment-Based Content Filtering and Recommendation User Story:**
    1. As a backend developer, implement a content filtering system based on sentiment analysis results.
    2. Exclude or prioritize news articles for specific users based on their emotional preferences.
    3. Provide sentiment-based recommendations to users, suggesting news articles that match their preferred emotional tone.
    4. Enhance users' news consumption experience by delivering content that aligns with their emotional preferences, making the news more personalized and relevant to their interests.

**User Story: Advancing Sentiment Analysis for News Aggregation - Part 3**

1. **Sentiment Bias Detection User Story:**
   1. As a data scientist, develop algorithms to detect potential biases in sentiment analysis results, especially for polarizing topics or sensitive subjects.
   2. Collaborate with ethicists and subject matter experts to address any biases identified and improve the model's fairness and accuracy.
   3. Ensure the sentiment analysis remains impartial and reliable by continuously refining the algorithms to mitigate biases and provide more accurate and unbiased results.
   4. Uphold ethical standards in sentiment analysis, promoting fairness and transparency in the process to deliver trustworthy insights to users
2. **Real-time Sentiment Tracking User Story:**
   1. As a backend developer, enhance real-time sentiment analysis capabilities to continuously track sentiment changes for evolving topics and breaking news events.
   2. Collaborate with the data streaming team to update sentiment analysis results and insights in real-time as new data becomes available.
   3. Provide users with up-to-the-minute emotional trends, ensuring they have access to the most current sentiment analysis insights for dynamic topics and breaking news events.
   4. Improve the overall user experience by delivering timely and relevant sentiment analysis information, enabling users to stay informed about the emotional landscape as it evolves in real-time.
3. **Sentiment Analysis Feedback Loop User Story:**
   1. As a developer, implement a feedback loop to gather user feedback on sentiment analysis results.
   2. Collaborate with the user feedback team to collect and analyze user inputs.
   3. Use the feedback to continuously improve sentiment analysis models and algorithms, making the platform more accurate and relevant to user needs.
   4. Create a user-centric sentiment analysis platform that evolves based on real user experiences and preferences, ensuring high-quality and valuable sentiment analysis insights.
4. **Sentiment Analysis API User Story:**
   1. As a developer, create an API for the sentiment analysis module to provide access to sentiment analysis functionalities.
   2. Collaborate with integration specialists to enable seamless integration with external platforms for sentiment analysis purposes.
   3. Expand the platform's reach and usability by allowing other systems or applications to access sentiment analysis capabilities through the API.
   4. Enhance the versatility of the sentiment analysis platform, making it more accessible and valuable to a broader range of users and applications.
5. **Performance Monitoring and Optimization User Story:**
   1. As a backend developer, set up monitoring tools to track sentiment analysis module performance, including response time, resource utilization, and accuracy.
   2. Continuously optimize the system to meet performance requirements and handle increasing user demands.
   3. Ensure smooth and efficient sentiment analysis operations by fine-tuning the system based on performance metrics.
   4. Provide users with a reliable and responsive sentiment analysis platform, enhancing the overall user experience and satisfaction.
6. **A/B Testing for Model Selection User Story:**
   1. As a data scientist, conduct A/B testing to compare the performance of different sentiment analysis algorithms and models.
   2. Collaborate with user experience specialists to select the most effective model based on performance metrics and user feedback.
   3. Ensure the sentiment analysis platform utilizes the best-performing model, providing users with accurate and reliable sentiment analysis outcomes.
   4. Continuously monitor and update the model selection process to maintain the platform's effectiveness and meet user expectations.
7. **Continuous Model Retraining User Story:**
   1. As a data scientist, establish a process for periodic model retraining to adapt to changing language patterns and user preferences.
   2. Collaborate with the data engineering team to keep the sentiment analysis models up-to-date.
   3. Ensure high accuracy and relevance in sentiment analysis results by continuously updating and improving the models.
   4. Provide users with reliable and up-to-date sentiment analysis insights that align with current language trends and user needs.

**User Story: Advancing Sentiment Analysis for News Aggregation - Part 4**

1. **Contextual Sentiment Analysis User Story:**
   1. As a data scientist, I will integrate contextual information from the surrounding text to improve the accuracy of sentiment analysis.
   2. Utilize advanced NLP tools and libraries such as TensorFlow, PyTorch, or Hugging Face's Transformers to implement techniques like attention mechanisms or contextual embeddings.
   3. Enhance the sentiment analysis module to better understand the nuances of emotions in the content by considering the context in which sentiments are expressed.
   4. By leveraging contextual sentiment analysis with state-of-the-art tools, the platform will provide users with more accurate and nuanced sentiment insights, offering a deeper understanding of emotional tones in the analyzed content.
2. **Sentiment Analysis for Images and Multimedia User Story:**
   1. As a data engineer, I will leverage advanced computer vision technologies such as convolutional neural networks (CNNs) for image sentiment analysis and recurrent neural networks (RNNs) for video sentiment analysis.
   2. Collaborate with computer vision specialists to utilize deep learning frameworks like TensorFlow or PyTorch for emotion and sentiment detection in visual content.
   3. Integrate the computer vision models with the existing sentiment analysis module, allowing the platform to analyze both textual and visual emotional responses.
   4. Provide users with a more comprehensive analysis of the emotional impact of multimedia, enabling a deeper understanding of sentiments in news articles and videos.
3. **Sentiment Analysis for User Comments and Reactions User Story:**
   1. As a developer, incorporate sentiment analysis for user comments and reactions on news articles and videos.
   2. Analyze the sentiment expressed by users to gauge their engagement and emotional response to the content.
   3. Enrich the platform with user-driven emotional insights, providing content creators and publishers with valuable feedback on how their audience perceives and reacts to the content.
   4. Enhance the overall user experience by tailoring the platform based on user sentiments, fostering a more engaging and user-centric environment for content consumption and interaction
4. **Sentiment Transfer User Story:**
   1. As a developer, I will explore sentiment transfer techniques, such as style transfer or emotion transfer models, to modify the emotional tone of news articles or video transcripts based on user preferences.
   2. Utilize advanced NLP techniques and deep learning frameworks like TensorFlow or PyTorch to implement sentiment transfer capabilities.
   3. Enable users to customize the sentiment of the generated content according to their emotional preferences, fostering a more personalized and emotionally resonant news consumption experience.
   4. By leveraging sentiment transfer technology, the platform will empower users to interact with news content in a way that aligns with their emotional preferences, creating a deeper and more meaningful connection with the news.
5. **Explainable Sentiment Analysis User Story:**
   1. As a data scientist, implement methods to provide explanations for the sentiment analysis results to enhance transparency and user trust.
   2. Utilize techniques like attention maps or saliency analysis to highlight important words or phrases influencing the sentiment in each analyzed content.
   3. Enhance the sentiment analysis process to be more interpretable and transparent, allowing users to understand the reasoning behind sentiment predictions.
   4. By providing explainable sentiment analysis, the platform will foster user confidence and promote a deeper understanding of the emotional aspects in the analyzed content.
6. **Sentiment Analysis for Audio Transcripts User Story:**
   1. As a data engineer, I will extend the sentiment analysis module to include the analysis of audio transcripts from videos or podcasts.
   2. Utilize audio processing and speech-to-text techniques to convert audio data into text for sentiment analysis.
   3. Enable the platform to handle various content formats, providing users with sentiment insights from both textual and audio content.
   4. Expand the platform's capability to process diverse forms of content, enhancing its value and usability for users seeking sentiment analysis across different media types.
7. **Sentiment Analysis for Live Video Streams User Story:**
   1. As a data engineer, collaborate with the data streaming team to develop real-time sentiment analysis capabilities for live video streams and broadcasts.
   2. Implement data streaming and processing mechanisms to analyze sentiment in real-time from live video content.
   3. Provide real-time emotional insights to content creators and broadcasters, enabling them to gauge audience reactions as events unfold.
   4. Enhance the platform's value by delivering instant feedback on audience sentiments during live video streams, supporting content creators in making data-driven decisions and engaging with their audience effectively.
8. **Sentiment Analysis for Historical Data User Story:**
   1. As a data scientist, I will implement sentiment analysis for historical news articles and video transcripts.
   2. Analyze long-term sentiment trends by processing sentiment data from past records.
   3. Identify patterns and recurring emotional themes in historical sentiment data.
   4. Offer users a broader historical perspective on emotional trends, providing valuable insights into how sentiments have evolved over time in response to various events and topics.
   5. By leveraging sentiment analysis for historical data, the platform will enrich users' understanding of emotional trends and contribute to a more comprehensive analysis of sentiment across different time periods.
9. **Sentiment Analysis Model Interpretability User Story:**
   1. As a data scientist, I will focus on developing interpretable sentiment analysis models using techniques like LIME (Local Interpretable Model-Agnostic Explanations) or SHAP (SHapley Additive exPlanations).
   2. Utilize model interpretability techniques to gain insights into how the sentiment analysis model arrives at its predictions and sentiment classifications.
   3. Foster user trust and understanding by providing clear and transparent explanations for the sentiment analysis results, enhancing the platform's credibility and user confidence.
   4. Ensure that the sentiment analysis model is not a black box, enabling users to comprehend the reasoning behind sentiment predictions and facilitating meaningful interactions with the sentiment analysis insights.
10. **Sentiment Analysis for Different Content Formats User Story:**
    1. As a developer, I will adapt the sentiment analysis module to handle diverse content formats, such as opinion editorials, blog posts, or product reviews.
    2. Customize the sentiment analysis approach for each content type, considering the unique characteristics and language patterns of different formats.
    3. Improve accuracy by tailoring the sentiment analysis to suit the specific context of each content type.
    4. Cater to different user preferences by providing more relevant and accurate sentiment insights for various types of content, enhancing the overall user experience and satisfaction.
11. **Real-time Sentiment-Based Notifications User Story:**
    1. As a backend developer, integrate sentiment analysis results with push notification systems to enable real-time updates on trending emotional topics.
    2. Implement personalized notifications for users based on their emotional preferences, delivering content aligned with their preferred sentiments.
    3. Enhance users' news consumption experience by providing timely and relevant updates on emotional trends, allowing them to stay informed about topics of interest with a personalized touch.
    4. Create a dynamic and user-centric platform that keeps users engaged and informed by delivering sentiment-based notifications tailored to their individual preferences.
12. **Sentiment Analysis for Market Analysis User Story:**
    1. As a data scientist, I will extend the sentiment analysis module to perform market sentiment analysis, focusing on analyzing the sentiment of financial news and its impact on market trends.
    2. Utilize NLP techniques and pre-trained sentiment analysis models like BERT or LSTM to extract sentiment from financial news articles.
    3. Provide insights to investors and financial analysts, enabling them to make informed decisions based on the sentiment analysis of financial news.
    4. Enhance the platform's value by delivering real-time market sentiment insights, supporting users in understanding the emotional landscape and its influence on market trends and investment decisions

1. **Sentiment Analysis for Brand Reputation User Story:**
   1. As a developer, I will apply sentiment analysis using advanced NLP techniques and libraries like TensorFlow and Hugging Face's Transformers to monitor the sentiment surrounding a brand or organization across various media channels.
   2. Implement data collection mechanisms to gather brand-related content from social media, news articles, and other platforms in real-time.
   3. Utilize pre-trained sentiment analysis models like BERT or VADER to gauge public perception and sentiment towards the brand with high accuracy.
   4. Provide businesses with real-time sentiment insights, enabling them to proactively respond to brand sentiment and manage their brand's reputation effectively.
   5. By leveraging sentiment analysis for brand reputation, businesses can make informed decisions, address customer concerns promptly, and enhance their overall brand image and reputation in the market.
2. **Cross-Lingual Sentiment Analysis User Story:**
3. As a data engineer, I will leverage advanced NLP techniques and libraries like TensorFlow and Hugging Face's Transformers to develop cross-lingual sentiment analysis capabilities.
4. Implement language detection algorithms using libraries like FastText or langid.py to identify the language of the content.
5. Utilize pre-trained multilingual sentiment analysis models such as mBERT or XLM-RoBERTa to analyze sentiment in content written in different languages.
6. Ensure seamless integration of cross-lingual sentiment analysis capabilities with the existing platform to enable users to access sentiment analysis for multilingual news and video content.
7. By expanding the platform's accessibility and usability, users will gain valuable insights into sentiment across various languages, promoting a more comprehensive understanding of global emotional responses to news and events.

**User Stories of Content Personalisation P**

**User Story 1:**

|  |  |
| --- | --- |
| **User story name: Personalized Homepage Content** | |
| **Priority** | High |
| **Estimate** | 16hrs |
| **User story** | * **As a** registered user, * **I want to** see personalized content on the homepage based on my interests and browsing history, * **So that I can** quickly find relevant information and engage more with the platform. |
| **Acceptance criteria** | * **Given that** I have a registered account and have interacted with the platform, * **when** I visit the homepage, * **then** I should see content recommendations tailored to my preferences and behaviour. |

**User Story 2:**

|  |  |
| --- | --- |
| **User story name:**  **Trending Topics and Breaking News** | |
| **Priority** | High |
| **Estimate** | 10 hrs |
| **User story** | * **As a** news app user, * **I want to** be alerted to current topics and breaking news that relate to my interests, * **So that I can** be informed with the most recent and pertinent news in real-time. |
| **Acceptance criteria** | * **Given that** I've interacted with various news categories or have particular interests, * **when** fresh hot topics or breaking news stories appear, * **then** I should get push notifications or notice these news items clearly on the app's home screen. |

**User Story 3:**

|  |  |
| --- | --- |
| **User story name: Location-Based News Recommendations** | |
| **Priority** | Medium |
| **Estimate** | 12 hrs |
| **User story** | * **As a** user of news app, * **I want to** see news recommendations specific to my location and interests as a news app user, * **So that I can** stay up to date on regional news and events. |
| **Acceptance criteria** | * **Given that** the news app has access to my location or I have explicitly entered my location, * **when** I browse or search for news items, * **then** I should receive news recommendations that are specific to my present location or preferred location. |

**User Story 4:**

|  |  |
| --- | --- |
| **User story name: Personalized Editorial Articles** | |
| **Priority** | Medium |
| **Estimate** | 14 hrs |
| **User story** | * **As a** frequent reader of editorial content, * **I want to** receive customised editorial articles based on my preferences and the topics I follow, * **So that I can** connect with thought-provoking and high-quality information that is suited to my interests. |
| **Acceptance criteria** | * **Given that** I've previously read editorial pieces or followed certain themes, * **when** I visit the editorial portion of the app, * **then** I should see editorial articles that have been specially chosen for me based on my preferences. |

**User Story 5:**

|  |  |
| --- | --- |
| **User story name:**  **Customized News Digest** | |
| **Priority** | Low |
| **Estimate** | 6 hrs |
| **User story** | * **As a** news app user, * **I want to**  receive a personalized news digest as a user of a news app, summarizing the most important headlines and stories of the day that relate to my interests, * **So that I can** quickly catch up on important news in a clear forma. |
| **Acceptance criteria** | * **Given that**  I have indicated my preferences or engaged with particular news categories, * **when** I use the news digest function, * **then** I should get a customized summary of the top headlines and stories that relate to my interests. |

**User Story 6:**

|  |  |
| --- | --- |
| **User story name: Personalized Ads and Promotions** | |
| **Priority** | Low |
| **Estimate** | 8 hrs |
| **User story** | * **As a** user of news app, * **I want to**  see targeted adverts and promotions that reflect my interests and preferences, * **So that I can** find items or services that are pertinent to me. |
| **Acceptance criteria** | * **Given that**  I have a history of reading particular news articles or themes, * **when** they are displayed in the app that are relevant to my interests and reading habits, * **then** I should see adverts. |

**User Stories of UI**

**User Story 1:** As a new user, I want to register on the news application so that I can access personalized news content and stay informed about the latest updates and events.

* Given that the user opens the news application for the first time.
* They are presented with a registration screen, prompting them to enter their email address and create a password.
* The user enters a valid email address and a strong password.
* They tap the "Register" button.
* The application verifies the email address format and password strength.
* If the registration is successful, the user receives a confirmation email with a verification link.
* The user clicks on the verification link to complete the registration process.
* The application confirms the successful registration and directs the user to the app's home screen.

**User Story 2:** As a user who previously registered on the news application, I want to log in easily to access my personalized news feed and.

* Given that the user opens the news application.
* They are directed to the login screen, where they are prompted to enter their registered email address and password.
* The user enters their credentials and taps the "Log In" button.
* The application verifies the email address and password combination.
* If the login is successful, the user is taken to their personalized news feed.
* If the login fails due to incorrect credentials, the application displays an error message and prompts the user to try again.

**User Story 3:** As a user who forgot my password, I want to reset it easily to regain access to my news application account.

* Given that the user opens the news application.
* On the login screen, they notice a "Forgot Password" link and tap on it.
* The application prompts the user to enter their registered email address.
* The user enters their email address and taps the "Reset Password" button.
* The application verifies the email address and sends a password reset link to the user's inbox.
* The user checks their email, clicks on the password reset link, and is redirected to a page where they can create a new password.
* The user enters a new strong password and confirms it.
* After successful password reset, the application confirms the update and allows the user to log in with the new password.

**User Story 4:** As a new user exploring the news application, I want to access essential news features without going through a full registration process, so I can quickly browse and evaluate the app's content.

* The user opens the news application for the first time.
* They are presented with a welcome screen that offers two options: "Log In" and "Continue as Guest."
* The user chooses the "Continue as Guest" option to explore the app without immediate registration.
* As a guest user, they have access to essential news features such as reading top headlines and viewing trending topics or using SOS.
* The app provides a prompt to register or log in as a full user if the guest user wants to access personalized news feed and other advanced features.

**User Story 5:** As a user who witnessed a breaking news event, I want to record a video from my mobile device and upload it to the news application to share the incident with the community.

* Given that he user opens the news application.
* They notice a "Share News" button on the home screen.
* The user taps on the "Share News" button, and the app prompts them to either record a video or choose an existing video from their device's gallery.
* The user selects the "Record Video" option.
* They use their mobile device's camera to record a video of the breaking news event.
* After recording, the application asks the user to provide a brief description or title for the video.
* The user enters a relevant title and any additional context they want to share.
* Finally, the user taps the "Upload" button to share the video with the community.

**User Story 6:** As a user, I want to see news articles from trusted sources based on my selected tags and interests, keeping me informed about topics I care about.

* The user logs in to the news application and accesses their account settings.
* They navigate to the "Interests" or "Tags" section and select their preferred tags.
* The news application customizes the user's news feed based on their selected interests.
* When the user opens the news feed, they find a curated list of top articles from reputable sources that focus on their preferred tags or interests.

**User Story 7:** As a user who finds a news article informative and interesting, I want to like it to show my appreciation and support for the content.

* The user reads a news article on the app that they find well-written and informative.
* They notice a "Like" or "Thumbs Up" icon beneath the article.
* The user taps the "Like" button to express their appreciation for the article.
* The app acknowledges their action by displaying the number of likes the article has received.

**User Story 8:** As a user who wants to engage in discussions about a news story, I want to comment on the article and share my thoughts with the news community.

* The user reads a thought-provoking news article and feels compelled to share their perspective.
* They find a "Comment" or "Add a Comment" section at the end of the article.
* The user writes their comment, expressing their thoughts and opinions about the topic.
* After submitting the comment, the app displays it along with the username and timestamp for others to see and respond to.

**User Story 9:** As a user who discovers a breaking news story, I want to share it with my friends and followers on social media.

* The user comes across a breaking news article on the app that they believe their friends and followers would find important.
* They find a "Share" button or icon within the article view.
* The user selects the social media platform they want to share the article on, such as Facebook, Twitter, or WhatsApp.
* The app generates a post with a link to the news article and a brief description.
* The user shares the news article with their social media network, spreading awareness about the important news story.

**User Story 10:** As a user who encounters offensive or inappropriate content in a news article, I want to have a reporting system to notify the platform's moderators and maintain a respectful news community.

* Given that the user opens the news application
* The user reads a news article that contains offensive language or inappropriate content.
* They find a "Report" or "Flag" button below the article or in the article's settings.
* The user clicks on the "Report" button and selects the reason for the report, such as "Offensive Content" or "Hate Speech."
* They may choose to include additional details or comments to help the platform moderators understand the issue better.
* The user submits the report, and the news application acknowledges their action, ensuring that appropriate steps will be taken to review the flagged content.

**User Story 11:** As a user who finds themselves in a dangerous situation while using the news application, I want the SOS feature to be readily accessible from the interface, allowing me to request immediate help.

* Given that he user is browsing the news application when they encounter a dangerous situation, such as witnessing a crime or accident.
* They notice an SOS button/icon clearly displayed on the app's main interface or navigation bar.
* The user taps the SOS button, and the application immediately triggers an emergency alert.
* The app prompts the user to confirm their emergency status to avoid accidental activations.
* Once confirmed, the SOS feature sends their GPS location and relevant information to emergency services or designated contacts for help.