**Vision and Scope Document**  
**Project Name:** AI Powered Joke Teller  
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**1. Problem Statement**

**1.1 Project Background**

Humor is an essential part of human interaction, and AI-driven entertainment is becoming increasingly popular. The AI-Powered Joke Teller aims to provide an engaging, interactive, and personalized joke-telling experience using artificial intelligence.

**1.2 Stakeholders**

* **End Users:** Individuals seeking entertainment through AI-generated jokes.
* **Developers:** Software engineers responsible for building and maintaining the system.
* **Researchers:** AI and NLP researchers exploring humor generation.
* **Ethical Reviewers:** Ensuring jokes are appropriate and inclusive.
* **Business Partners:** Potential organizations looking to integrate AI-generated humor into their platforms.

**1.3 Users**

* General users looking for fun and entertainment.
* Content creators and social media users who want AI-generated humor.
* Developers interested in AI and NLP applications.
* Companies looking to integrate humor-based AI chatbots.

**1.4 Risks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Risk ID** | **Risk Description** | **Impact** | **Probability** | **Mitigation Strategy** |
| R1 | AI generates offensive or inappropriate jokes | High | Medium | Implement content moderation and filtering mechanisms |
| R2 | Users may not find AI-generated jokes funny | Medium | High | Improve joke personalization using user feedback |
| R3 | Slow response times due to model complexity | Medium | Medium | Optimize AI processing and use efficient APIs |
| R4 | Ethical concerns in humor generation | High | Medium | Ensure AI adheres to ethical humor guidelines |
| R5 | System scalability issues with high demand | Medium | Low | Use cloud-based solutions for scaling |

**1.5 Assumptions**

* Users will primarily interact with the AI in English (initial version).
* The AI model will be trained using a diverse joke dataset.
* The system will ensure ethical joke filtering.
* The AI will improve over time based on user feedback.

**2. Vision of the Solution**

**2.1 Vision Statement**

The AI-Powered Joke Teller aims to deliver an engaging and interactive humor experience through AI-generated jokes. The system will personalize jokes based on user preferences while ensuring ethical and inclusive humor.

**2.2 List of Features**

* **Joke Retrieval:** Access a categorized joke database.
* **Joke Generation:** AI-driven joke creation using NLP models.
* **Personalization:** Tailor jokes based on user preferences and feedback.
* **Conversational Interface:** Enable interactive joke delivery.
* **Content Moderation:** Filter inappropriate or offensive jokes.
* **User Feedback System:** Allow users to rate and improve joke quality.

**2.3 Scope of Phased Release (Optional)**

* **Phase 1:** Text-based joke generation and retrieval.
* **Phase 2:** Enhanced personalization and multilingual support.
* **Phase 3:** Integration with voice assistants for spoken jokes.

**2.4 Features That Will Not Be Developed**

* Video or animated joke generation.
* Real-time emotional recognition in humor analysis.
* Advanced sarcasm detection beyond standard NLP techniques.

**3. Conclusion**

The AI-Powered Joke Teller will provide an innovative and entertaining AI-driven humor experience. With strong ethical considerations, personalization, and scalability, this project will set a new standard in AI-generated entertainment. Future developments will explore expanded language support and multimodal joke delivery.