

Langscape 3.0

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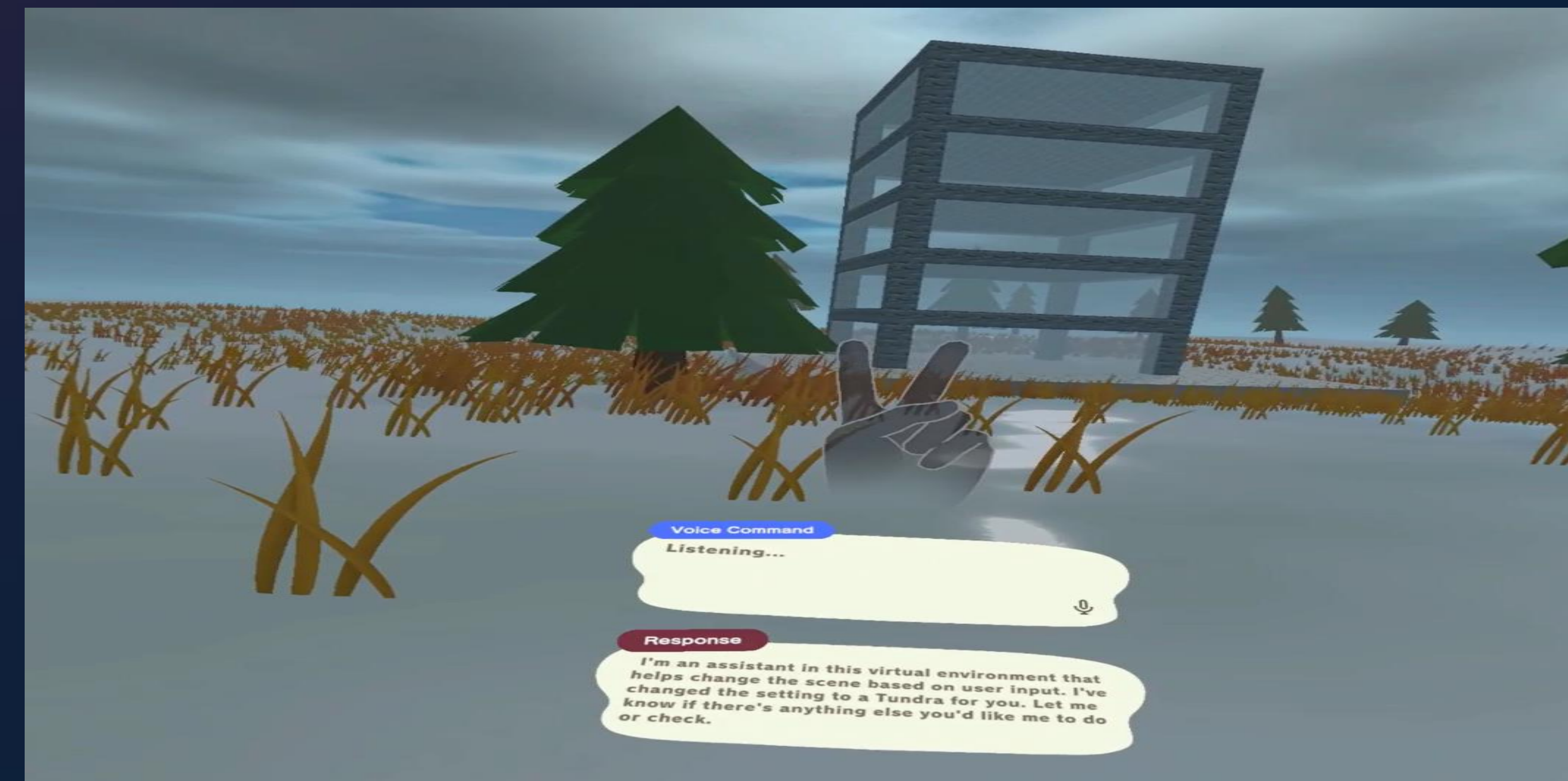
Mentor: *Steven Luis (Product Owner)*

Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University



SUMMARY

Discover the future of virtual reality with LANGSCAPE 3.0! Imagine a world where your voice shapes entire environments, where architectural wonders spring to life at your command. LANGSCAPE 3.0 is more than simply a virtual reality experience; it's an interactive interaction between you and cutting-edge artificial intelligence. Use voice as a tool to create, change, and explore architectural creations like never before. Our goal is simple: to use language to bridge the gap between the physical and virtual realities. Join us on our adventure to reimagine the possibilities of immersive VR experiences. Welcome to LANGSCAPE 3.0, where words create worlds.



 Langscape Exploration with AI Guidance

INDIVIDUAL CONTRIBUTION

- Project LLM was successfully migrated from OpenAI to Mistral.
- Set up and configured the LLM (Large Language Model) on the FIU Quartz server infrastructure.
- Modified the existing code to interface smoothly with the Mistral server
- The prompt script was fine-tuned for seamless Mistral LLM integration and enhanced engagement.
- Focusing on maximizing user engagement and usability within the VR environment.



 AI Helps Construct House

FUTUREWORK

- Continue working on fine-tuning AI assistance to provide a great user experience by improving responsiveness and effectiveness.
- Replace OpenAI API usage with local LLM instances across the project (e.g., from Whisper).
- Evaluate various LLM options and integrate the most suitable ones into the project.
- Implement LLM models known for their quick response times and superior performance, thereby enhancing the overall efficiency of the project.

TEAM CONTRIBUTIONS

- Developed a user-friendly interface enabling users to spawn and decorate assets within their environment.
- Executed the implementation of LLM for generating assets and environments.
- Migrated Project LLM from OpenAI to Mistral, enabling local deployment on the FIU Quartz server.
- Modified the prompt script to ensure seamless integration with the updated Mistral LLM configuration



 AI Assistant Changes Langscape Background



ACKNOWLEDGEMENT

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