Advanced Gameplay Survival Mechanics • The Impact of Gameplay for Multiplayer in Unreal Engine

- Department of Computer Science - UEL

Mechanics in 3D related industry

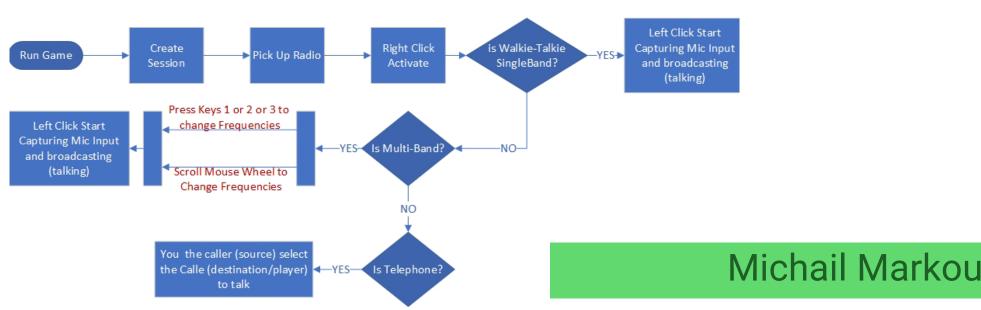
ABSTRACT

The digital world is a highly engaging product that tends to retain its users throughout its narrative or objective. At the core of its application, from business objectives to product delivery, are video game systems. The research focuses on the demographic data, preferences of virtual worlds as well as their riveting experience, comparing it with corresponding titles of commercial success in the super. and the cons. The development system of the present work is focused on multiplayer survival horror experience such as environmental player interactions and real time communications (Voice over IP - VOIP) as well as the architecture of their creation systems programmatically but also from other contributing aspects such as 3D Architectural Visualization, Sound Design. The techniques given are abstracted and can contribute as a concept for any kind of genre game (virtual world) mechanic but also in any kind of AR / VR & metaverse platform.

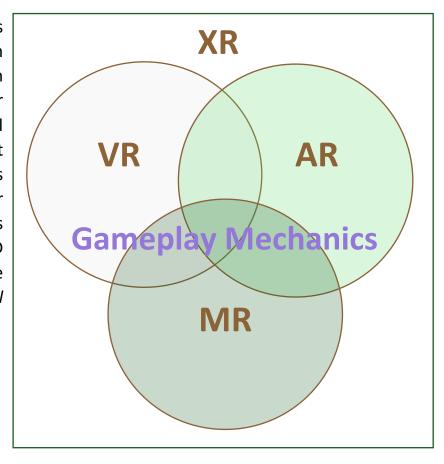
RESULTS

User/Player Flowchart

Server Client Communication Model



Metaverse ⊃



METHODOLOGY

- 1. Finding and satisfying the requirements of the top trend Feature via Survey
- 2. Selection of tools / technologies implementations of the requirements
- 3. Select Project Management & software development methodologies (Plural because i.e., and / or agile + DevOps)
- 4. UML & Class Design
- 5. Level Blocking out / white Boxing
- 6. Class implementation
- 7. Testing (QA) + logging



- 8. 3D modeling, Animation & material authoring
- 9. Finalize results
- 10. Deploy & Production
- 11. Support & Q&A

SUMMARY

- Survival horror genre experience T/FPP
- Actor in-place Animations / Locomotion's
- Character Mannequin / Body appearance
- Survival Gear for a ghost hunt
- Diary Quest/events System
- Inventory
- Save System
- **Inspection System**
- Footstep Sound System
- NPC hunt mode
- Network Replicated / Multiplayer Ready
- VoIP