ALRIC – The Explorer

FINAL REPORT

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At

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Abstract

A 2D platformer game is a type of video game that involves a character moving through a two-dimensional environment while overcoming obstacles and enemies. These games are often characterized by their simple, side-scrolling gameplay, which involves the player controlling the character's movement and jumping abilities to navigate through the game's levels.

To design and implement a 2D platformer game, you will need to define the concept and gameplay mechanics, create the game's assets, set up the levels and environments, implement the gameplay mechanics and player controls, and test and debug the game. It is also important to consider the overall player experience, including the difficulty, pacing, and aesthetic of the game, as well as the story and characters.

By following a structured process and focusing on these key areas, you can create a successful and enjoyable 2D platformer game that players will love.

War of Tank

Final Report
A Project Report

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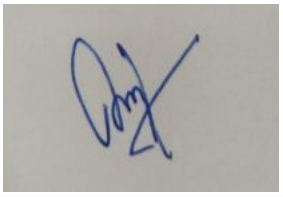

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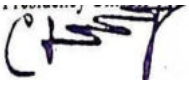

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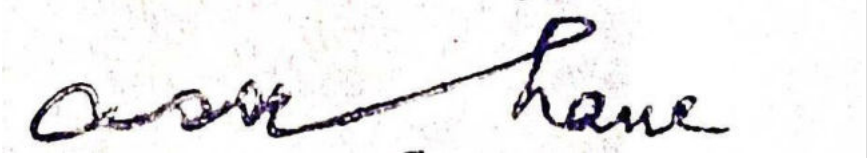

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Abstract

3D Tanks Game is a 2-player shooter game using one keyboard that uses simple game mechanics, integrating world and screen space UI, as well as game architecture and audio mixing. A tank is an armoured fighting vehicle intended as a primary offensive weapon in front-line ground combat. Tank designs are a balance of heavy firepower, strong armour, and good battlefield mobility provided by tracks and a powerful engine; usually their main armament is mounted in a turret. Each player controls their tank with a pair of joysticks, moving them forwards and back to drive, reverse, and steer, and firing shells with a button to attempt to destroy the other tank. The destruction of a tank from a mine or shell earns the opposing player a point, and tanks reappear after being destroyed. Tanks 3D is a fascinating tank battle game, perfect for those who enjoy action and explosions, and you can enjoy it online and for free on Unity.com. In this fast paced battle game, you get to control different types of tanks to complete lots of missions in which driving skills, good aim and fast thinking are the key to survive. Unity Multiplayer refers to “Unity Multiplayer Networking”, which is Unity’s toolset for multiplayer game development. In 2021, Unity made a serious step forward toward multiplayer networking. That was when they officially pre-released Netcode for GameObjects with an extended feature focusing on moderate pace, small-scale, cooperative games. At the same time, Unity enhanced Unity Transport and added support for DTLS encryption. Furthermore, at that time, the Unity team released a new Network Profiler feature and multiplayer services – Unity Relay and Lobby. Unity Multiplayer refers to “Unity Multiplayer Networking”, which is Unity’s toolset for multiplayer game development. In 2021, Unity made a serious step forward toward multiplayer networking. That was when they officially pre-released Netcode for GameObjects with an extended feature focusing on moderate pace, small-scale, cooperative games. At the same time, Unity enhanced Unity Transport and added support for DTLS encryption. Furthermore, at that time, the Unity team released a new Network Profiler feature and multiplayer services – Unity Relay and Lobby.

KeyWords: Multiplayer Game, Unity Networking

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ESCAPE ROOM

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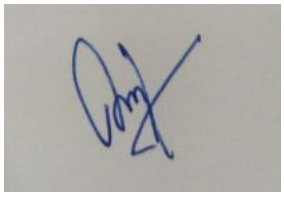

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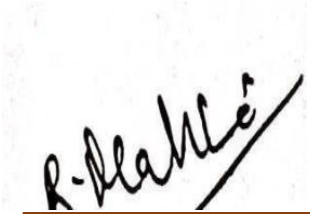

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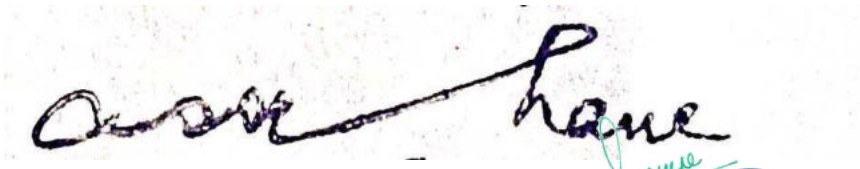

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ABSTRACT

Escape Room is an immersive game that offers players a thrilling and intellectually stimulating experience. Set in a meticulously crafted virtual environment, the game challenges players to solve a series of intricate puzzles and unravel mysteries within a time-constrained scenario.

The game leverages cutting-edge VR technology to provide players with a realistic and immersive experience. With high-quality visuals, spatial audio and intuitive hand-tracking controllers, players are transported into a captivating world where they must rely on their wits, observation skills, and teamwork to succeed.

Escaping the room is more than just a physical challenge—it is a mental odyssey, a journey into the unknown. It demands creativity, resourcefulness, and the ability to think outside the box. As the final seconds tick away, the thrill of victory or the bitter taste of defeat awaits.

Escape rooms offer a thrilling and immersive experience that pushes the boundaries of your imagination. They are a testament to the power of teamwork, problem solving, and the exhilaration of conquering the unknown. So gather your friends, brace yourselves, and prepare for an adventure like no other. Can you unlock the secrets, escape the room, and emerge victorious? The answer lies within the labyrinth, waiting to be discovered.

Key Words: Immersive, Labyrinth, Unity 3D Engine

ACKNOWLEDGMENT

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We would like to acknowledge the support and encouragement of our friends.

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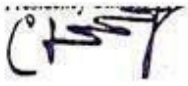

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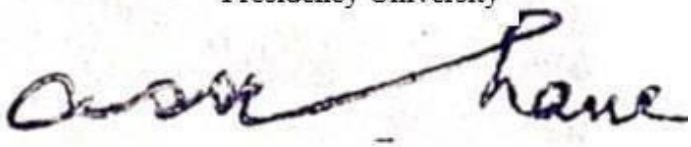

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Abstract

This project deals with the ‘Product review'. The sentences that represent observations or attitude and the product feedback that is expressed as positive or negative are called as reviews. The users post their text in e-commerce websites. These texts are extracted in the form of unstructured data. The unstructured dataset is converted into structured form then extracts features from structured review. The features of the words are selected and then classification technique is applied on extracted features to classify them into its sentiment polarity that is namely either positive or negative. Feature words representation based on Naïve Bayes is the main algorithm proposed by information retrieval researchers to represent text corpus. These reviews help us to identify the product is correct or not these all are called user reviews. These process can be done by the natural language processing.

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Chat App
[A Progressive Web Application]

A Project Report

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ABSTRACT

The ChatApp is a web-based communication platform designed to facilitate real-time messaging and interaction between users. The primary objective of the website is to provide a user-friendly and accessible interface for individuals to connect, engage in conversations, and share information. The ChatApp offers a range of features to enhance the communication experience. Users can create personalized profiles, manage their contacts, and engage in one-on-one or group chats. The website incorporates real-time messaging capabilities, allowing users to exchange text messages, multimedia content, and even participate in audio or video calls. Privacy and security are prioritized on the ChatApp. The platform implements encryption protocols and user-controlled privacy settings to ensure the confidentiality of user data and protect personal information. The website's design and layout are optimized for responsiveness, providing a seamless user experience across different devices and screen sizes. It leverages modern web technologies to deliver a fast and interactive interface, enabling smooth navigation and efficient communication. The ChatApp aims to revolutionize online communication by providing a user-friendly platform that enables seamless and meaningful interactions. Its features and intuitive interface make it a valuable tool for both personal and professional communication needs.

In conclusion, the ChatApp website project represents a significant contribution to the field of web-based communication platforms. By combining modern web technologies with robust functionality and user-centric design, the website offers users a reliable and engaging platform to connect and communicate in real-time.

KeyWords: Social Application, communication, Java, Fire Base

ACKNOWLEDGMENT

The completion of project work brings with great sense of satisfaction, but it is never completed without thanking the persons who are all responsible for its successful completion. First and foremost we indebted to the GOD ALMIGHTY for giving us the opportunity to excel our efforts to complete this project on time. We wish to express our deep sincere feelings of gratitude to our Institution, Presidency University, for providing us opportunity to do our education.

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Human Activity Recognition Using Machine Learning

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Abstract

Human Activity Recognition (HAR) based on sensor networks is an important research direction in the fields of pervasive computing and body area network. Existing researches often use statistical machine learning methods to manually extract and construct features of different motions. However, in the face of extremely fast-growing waveform data with no obvious laws, the traditional feature engineering methods are becoming more and more incapable. With the development of Deep Learning technology, we do not need to manually extract features and can improve the performance in complex human activity recognition problems.

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BRAIN TUMOR DETECTION

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We would like to acknowledge the support and encouragement of our friends.

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Abstract

This project deals with the ''Brain tumor detection".In medical diagnostic application, early defect detection is a crucial task as it provides critical insight into diagnosis. Medical imaging technique is actively developing field in engineering.Magnetic Resonance imaging (MRI) is one those reliable imaging techniques on which medical diagnostic is based upon. Manual inspection of those images is a tedious job as the amount of data and minute details are hard to recognize by the human. For this automating those techniques are very crucial. The MRI deals with the complicated problem of brain tumor detection

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