

An interactive, cooperative, and engaging video game to aid in teaching petroleum engineering concepts and beyond.

LPI: Nayef Alyafei USR: Rand AlAgha



This project aims to explore the potential of implementing game-based **learning** in teaching Petroleum Engineering. More specifically, an escape room style game that aims to help teach reservoir petrophysics. Based on testing conducted for this version of the game, a number of benefits were found.







- 1. The game offers a unique collaborative solution to remote teaching measures.
- 2. The escape room format consisting of technical questions paired with fun puzzles strikes a perfect balance between academia and amusement to help enhance student engagement.
- 3. The game's simple interface can be easily adapted to other engineering disciplines with room for creativity to tailor the experience to a particular theme.

Game Screenshots

Game Interface:

Technical Question

Puzzle

Crack the code

Game Implementation







Survey Feedback (Statistical Analysis)

Survey Feedback (Comments)

This activity helped me strengthen my understanding of the concepts



This activity allowed me to practice my teamwork skills







This work was supported by the 2021 Transformative Educational Experiences Grant, funded by the Center for Teaching and Learning at Texas A&M University at Qatar.