

## ABSTRACT

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### **PENGEMBANGAN GAME SERVER CFX BERBASIS GTA V ONLINE DENGAN MENGGUNAKAN QB-CORE FRAMEWORK**

Thesis. Information Systems Department, Faculty of Computer Science & Information Technology, Gunadarma University, 2023.

Key Words: Roleplay, FiveM, GTA V Roleplay.

(xv + 152 + lampiran)

*Roleplay is a game where players assume the roles of characters created within the game. These characters engage in activities similar to real-life experiences. The Roleplay game server was developed by a company called FiveM in collaboration with Rockstar, the owner of the GTA V game. Many Roleplay game servers on FiveM have certain shortcomings. These include issues related to how various jobs are handled, such as work methods, work hours, and pricing, which are not yet in line with expectations. There are also challenges in the city service system, such as job assignments and item sales, making it difficult for players. Additionally, the process of calculating the total cost of vehicle modifications still relies on manual calculations, and there is a lack of guidance for new players who are not yet familiar with the game. Therefore, the goal of this research is to develop a game server called Bot Loop Roleplay with several features that aim to minimize or even resolve the issues present in other servers while also providing benefits to the business sector. This includes creating features that reduce player complexity within the game. The development of the Bot Loop Roleplay game server employs the Extreme Programming methodology, consisting of planning, design, implementation, and testing phases. The outcome of this research is the Bot Loop Roleplay server, which can accommodate 20-30 players simultaneously. The server received an average rating of 4.54 points from player feedback forms distributed after testing, indicating a highly satisfactory experience. The Bot Loop Roleplay server can be accessed by selecting the "play" button and searching for the Bot Loop Roleplay name within the FiveM application.*

*Bibliography (2012 – 2022)*