D424 – Software Engineering

Task 4

Capstone Proposal Project Name: WGU: SAM (Simplified Academic Management)

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Introduction

This document outlines the deployment strategy and rationale behind the choices made during the deployment of the "Simplified Academic Management" application. Each section provides an in-depth explanation, ensuring a transparent understanding of the deployment process.

Deployment Strategy

Cloud Solution Justification

The **Google Play Store** was the preferred choice for the deployment of the mobile software application due to the following reasons:

- **Extensive Reach**: Google Play Store boasts billions of active users, ensuring maximum visibility and reach for the app.

- **Native Android Support**: Being the official app store for Android devices, it guarantees optimal compatibility and performance.

- **Diverse Monetization Avenues**: Developers have the flexibility to opt for ads, in-app purchases, subscriptions, and more.

- **Robust Developer Toolkit**: Google Play Console offers insights like user engagement, crash reports, and feedback, aiding in iterative app improvements.

- **Reliability & Security**: With Google Play Protect, apps undergo rigorous scanning for malicious activities, promising users a secure experience.

Container Image Explanation

Containerization wasn't employed for this project, and here's why:

- **Mobile-Centric Deployment**: The app is tailored for mobile devices, and containerization is more inclined towards web and server-side applications.

- **Direct Deployment**: Google Play Store allows for direct app uploads and installations, eliminating the need for intermediary container processes.

GitLab Repository & Export Details

All development iterations, codebase, and database changes have been committed and pushed to GitLab. As part of the deployment documentation:

- The entire project is archived and exported as a compressed file.

- Given the mobile nature of the app, automation scripts weren't needed for its deployment.

- GitLab Repository URL: https://gitlab.com/wgu-gitlab-environment/student-repos/afejes21/d424-software-engineering-capstone/-/tree/master?ref_type=heads

Video Demonstration

A comprehensive video has been created which highlights the step-by-step deployment procedure on the Google Play Store.

https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=8051c28a-9717-4539-95ac-b0ab010649fa