

School of Computing and Engineering: University of Missouri – Kansas City

Course Name: CS 5525 Cloud Computing

Group Name: Cloud Geeks

Title: Cloud-Based Patient Engagement: Revolutionizing Healthcare Experience

Group Member's:

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Motivation/Purpose: The purpose of a Patient Engagement and Experience cloud project is to improve patient outcomes and enhance the overall healthcare experience for patients. The project aims to achieve this by leveraging cloud-based technology to offer patients greater access to their medical information, improve communication between patients and providers, and enable patients to participate more actively in their care.

By implementing a patient engagement and experience cloud project, healthcare providers can also streamline their operations, reduce administrative burden, and optimize their workflows. The project helps to improve patient satisfaction, increase treatment adherence, and reduce healthcare costs.

The ultimate goal of the project is to build a more efficient and cost-effective healthcare system that improves the overall quality of care for patients. By leveraging cloud technology, healthcare providers can create innovative and scalable solutions that enhance patient engagement and experience, and ultimately lead to better health outcomes.

Utilizing Cloud Tech:

- The infrastructure can be provided by cloud service providers such as Amazon Web Services (AWS).
- Cloud-based storage solutions such as Amazon S3 can be used to store and manage patient data securely and cost-effectively.
- Cloud-based application development platforms such as AWS Lambda can be used to build scalable and responsive applications.
- RESTful APIs can be implemented using frameworks such as Node.js, Django, or Flask.
- AWS QuickSight can be used to analyze and visualize patient data in real-time.
- Cloud security services such as AWS Identity and Access Management (IAM) can be used to manage access to patient data and prevent unauthorized access.