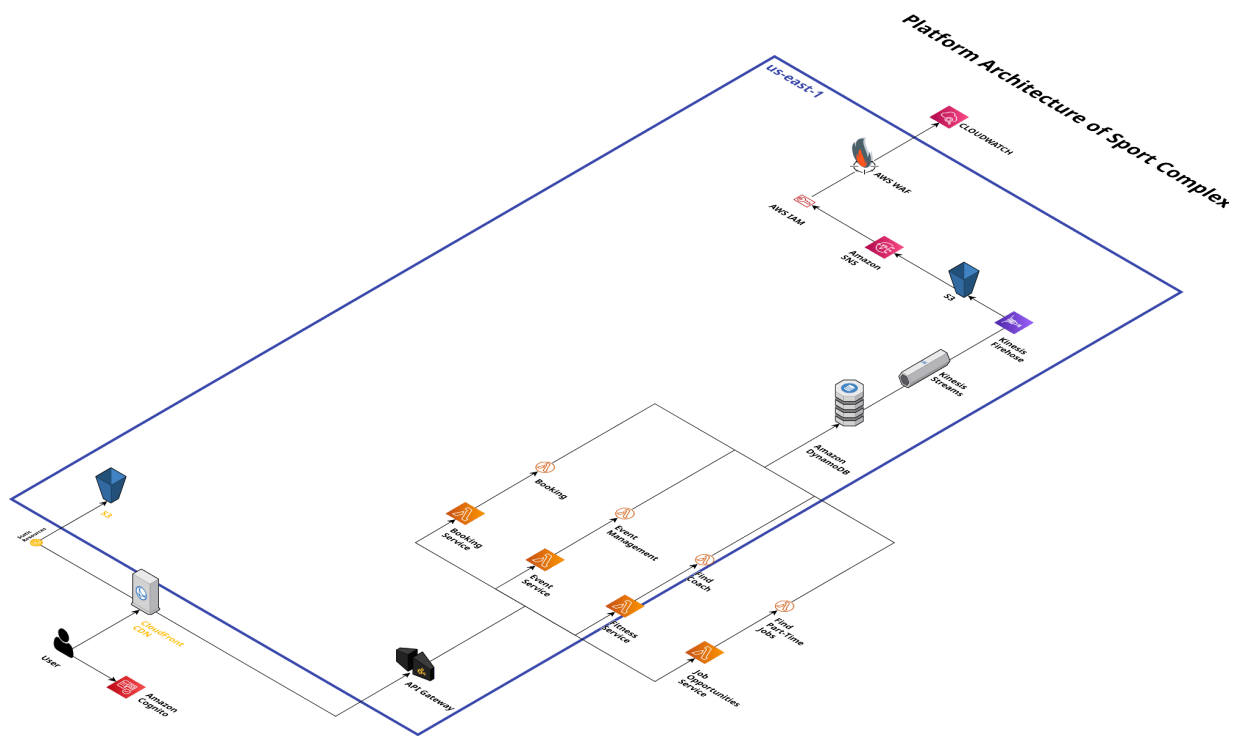


Assignment #4
6531503195 Zarni Tun



The architecture for the sports complex website leverages AWS's serverless services to ensure scalability, reliability, and cost efficiency. The system begins with users accessing the platform through a CloudFront CDN, which distributes static content stored in Amazon S3 for fast, low-latency delivery. User authentication and authorization are managed by Amazon Cognito, ensuring secure access to the platform. The backend logic is handled by AWS Lambda functions triggered via API Gateway, which acts as the entry point for various services such as booking, event management, and job opportunities. Data is stored in Amazon DynamoDB for high-performance and scalable NoSQL database operations, while real-time data processing, such as event updates, is facilitated by Amazon Kinesis Streams and Firehose. Security is enhanced with AWS WAF, protecting against common web vulnerabilities, and CloudWatch provides monitoring and observability across the platform. This architecture is designed to handle both real-time interactions and high-volume data processing efficiently, meeting the needs of a modern, dynamic sports complex website.