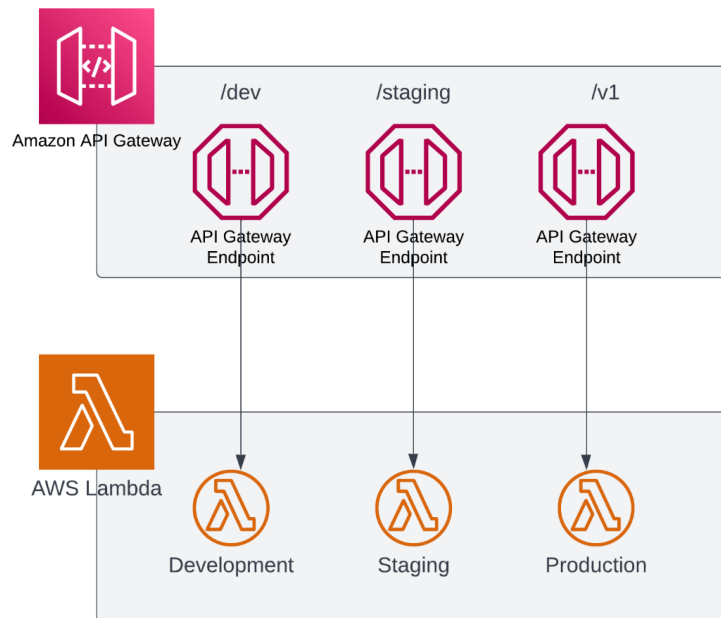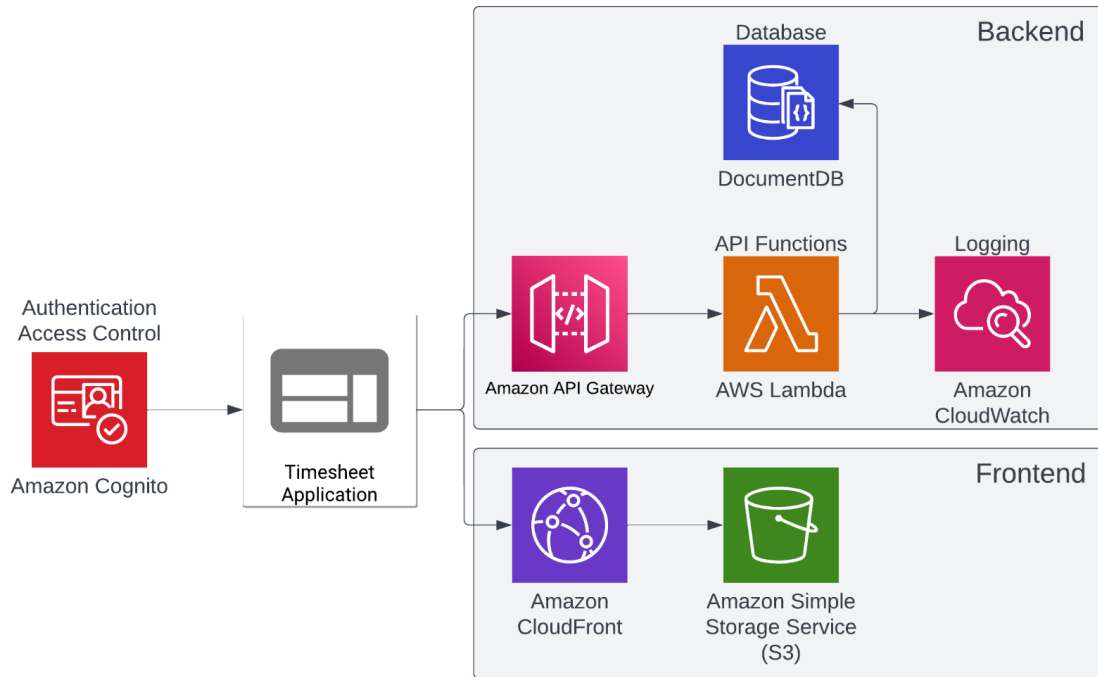**9/29/2022**

Deployment Enviroment
1. Testing
2. Staging/Development
3. Production - Major release will be deployed to production after testing it internally in testing and staging environment.

Technology Stack
1. Frontend - HTML5, CSS3, JS
    a. Frameworks:
        i. https://mdbootstrap.com/
        ii.
2. Backend - Python
    a. Framework - https://www.djangoproject.com/
    b. https://loopback.io/
    c.
3. Database -
    a. AWS RDS (PostgreSQL)
4. Authentication - AWS Cognito
5. Hosting/Deployment:
    a. Frontend: AWS S3/EC2
    b. Backend: AWS EC2
6. Git Version Control: Github

System Design:

Backend

Database

DocumentDB

API Functions

Amazon API Gateway

AWS Lambda

Logging

Amazon CloudWatch

Authentication Access Control

Amazon Cognito

Timesheet Application

Frontend

Amazon CloudFront

Amazon Simple Storage Service (S3)

Amazon API Gateway

/dev	/staging	/v1
API Gateway Endpoint	API Gateway Endpoint	API Gateway Endpoint

AWS Lambda

| Development | Staging | Production |

User Requirements:

1. Dashboard with all events for today
   a. https://fullcalendar.io/demos
   b.
2. Manager can create an event
   a. Add a supervisor
   b. Add employees to the event
   c. Add Location
   d. Superviser sign
   e. Total Hours - Combine hours of all the employees
3. Manager will assign the event to superviser
4. Superviser / Manager can assign employees to events, modify assigned employees to different events
5. Managers will add employees to event.
6. Superviser (will be present at the event, will ask details from employee for sign in/out) will sign in, sign out employee at the event timesheet
7. Employee can sign in and sign out using mobile number as a ID
   a. Employee will enter mobile number
   b. Will enter time in and out
   c. QR code based sign in/out ?
   d.
8. Reports
   a. Get a Event wise timesheet

Access Level Roles

1. Admin:
   a. Can add work locations
   b. Can create managers, supervisors
   c. All access
   d.
2. Manager
   a. Can create event,
   b. Assign supervisors
   c. Create supervisers
3. Superviser
   a. Can update event (location, employees list, title)
4. Employee
   a. Can fill time in and out for the event

Reports

Timesheet reports - Event Wise

s/n	name	Time in	Time out	Total hrs
1	Ab cd	10/06 2am	10/06 4.40am	2.67hrs
2				

Payment reports - Event Wise

	A	B	C	D	E	F	G	H	I	J
1	Funding Card ID	Funding Card Passcode	Reserved	Cardholder A	Amount	Reserved	Reserved	Reserved	Reference	
2	4449948316			4449948316	1					
3	4428778486			4428778486	1					
4	4449948043			4449948043	1					
5										
6										
7										

Masters:
1. Event
    a. Title
    b. Location
    c. Employee list
    d. Superviser
2. Location
    a. City, State
    b. Pincode
    c. Address
3. Users
    a. Admin
        i. Email based login
        ii. Name
        iii. Password
        iv.
    b. Manager
        i. Email based login
        ii. Name
        iii. Password
        iv.
    c. Superviser
        i. Mobile based login
        ii. Name
        iii. Password
        iv.
    d. Employee
        i. UserID: Mobile number
        ii. Personal Information of the Employee
        iii. As much as information possible
        iv. Including ssn

Employee Information (All fields required):
1. Date Submitted / Created On

2. Updated On
3. Full Name
4. Address (Street, city, pin)
5. Phone
6. Email
7. Date Of Birth
8. SSN
9. Gender
10. Position of Interest
11. Are you authorised to work in the USA?
12. Have you ever been convicted of a felony
13. Name and Number of Next of Ki
14. Today's date

Reports: