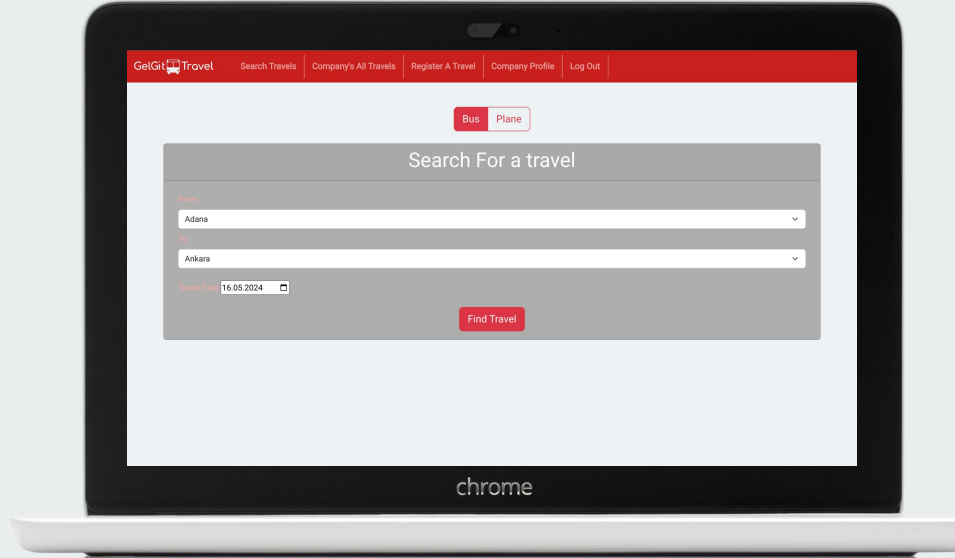




GelGit Travel

Mousa Farshkar Azari
Can Bağırhan
Hasan Alp Caferoğlu
Mehmet Kadri Gofralılar





Outline

- Introducing GelGit Travel
- Frontend (Amplify - React)
- Backend (Lambda - API Gateway)
- Security
- Cost Estimation
- Demo



GelGit Travel



GelGit Travel

Transportation Ticket Management and Purchase Platform

Target Customers:

- Small Transportation Companies
- Budget-Conscious Travelers
- Flexible Travelers

→ Travelers:

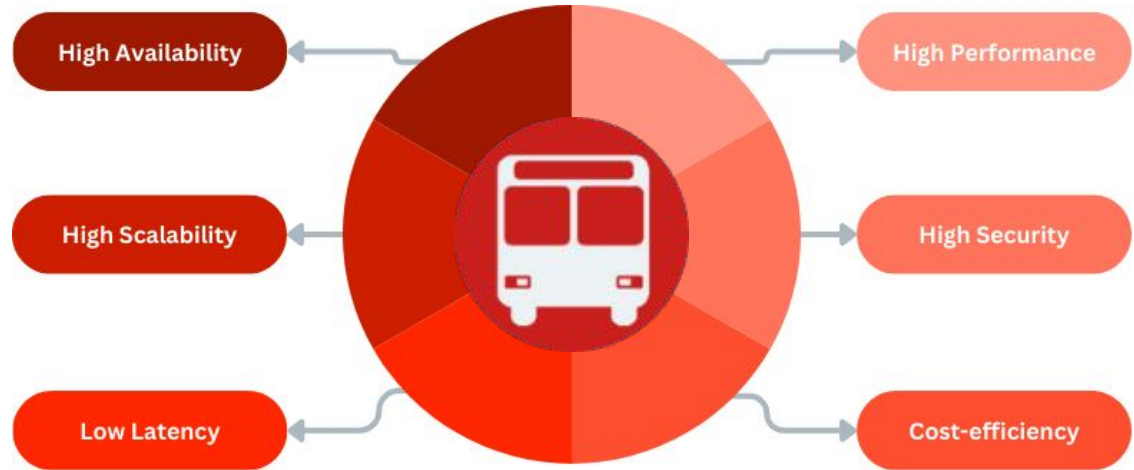
- ◆ Purchase transportation tickets
- ◆ Coupon feature
- ◆ Balance management

→ Companies:

- ◆ Travel management
- ◆ Profile Management

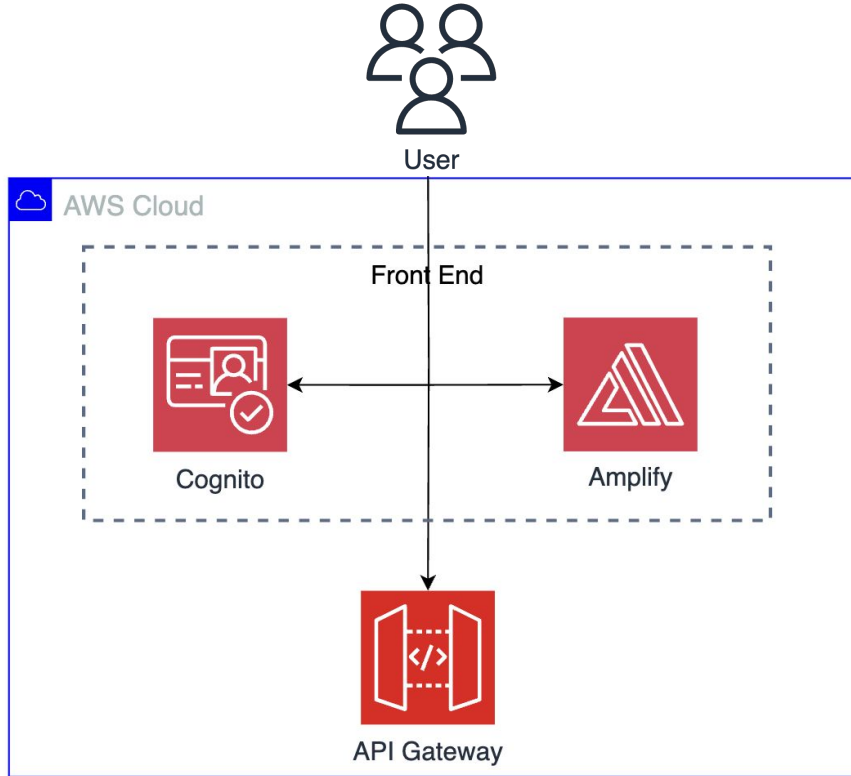


With AWS, GelGit Travel Offers...





System Architecture



AWS Amplify

- Front-end Service
- CI/CD enabled



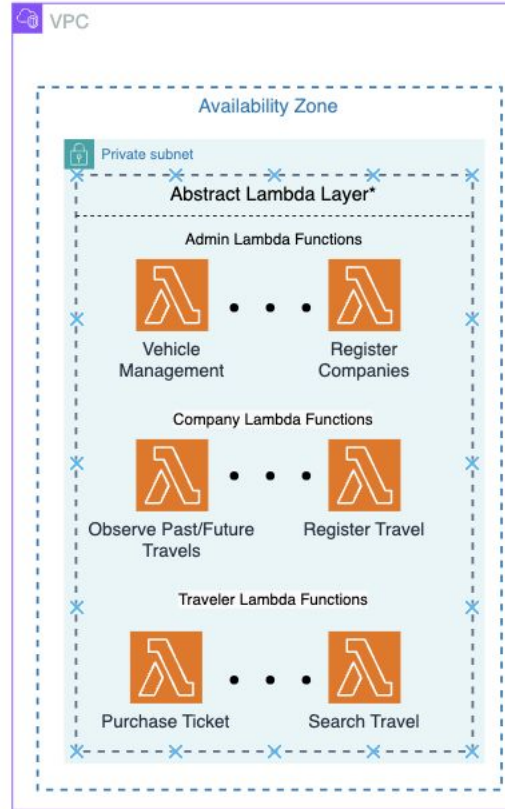
Amazon API Gateway

- Handle requests
- Trigger Lambda functions



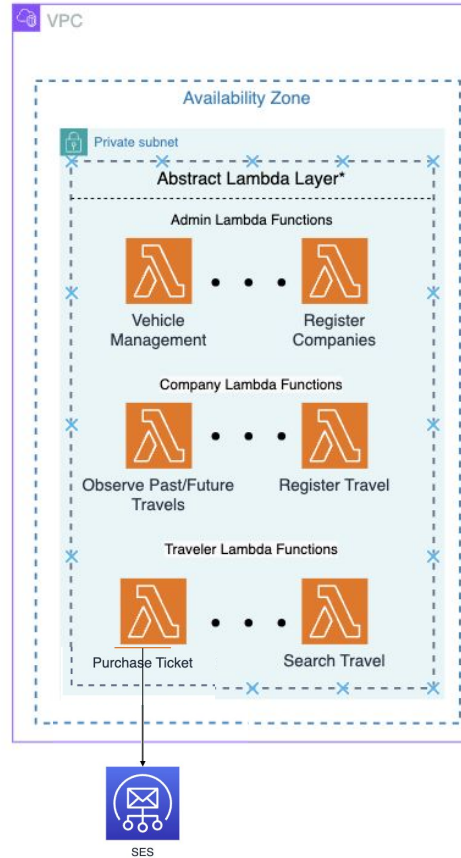
Amazon Cognito

- Authentication
- Authorization
- Verification



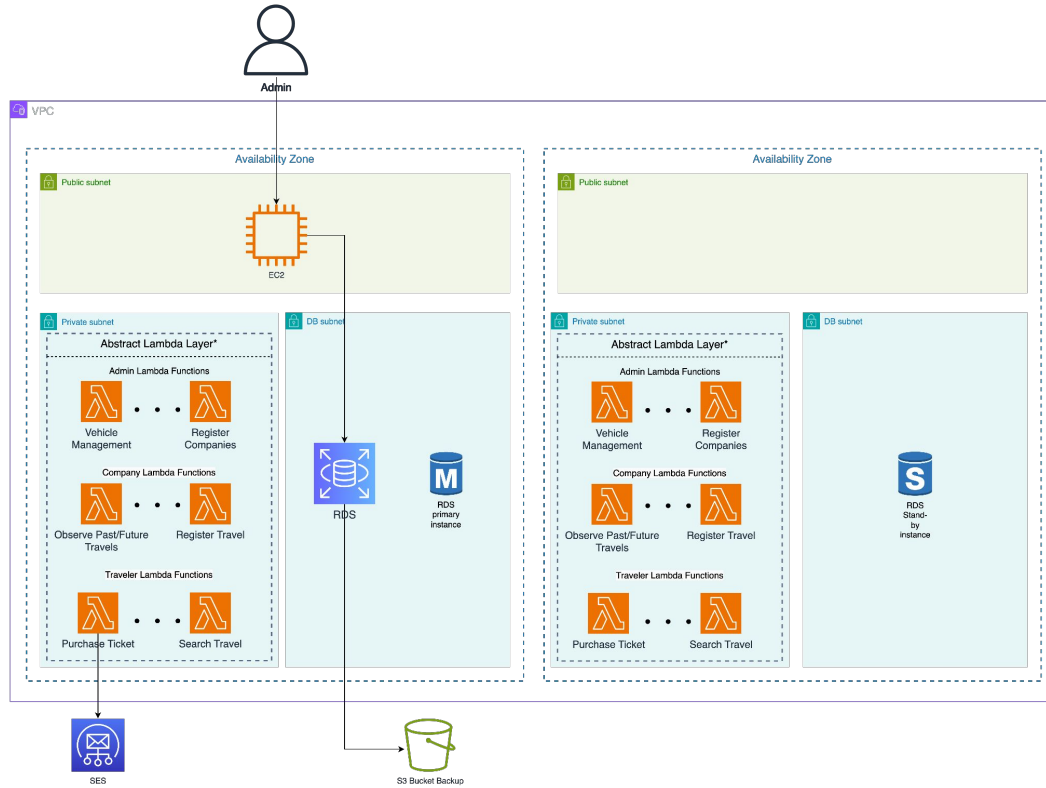
AWS Lambda

- Serverless Backend
- 3 Groups
 - ◆ Admin
 - ◆ Company
 - ◆ Traveler
- + 40 Lambda Functions



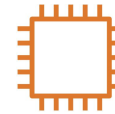
AWS Simple Email Service

- Informative emails to users
- Triggered by purchasing tickets and profile updates



Amazon RDS
for MySQL

→ Database Service
MySQL



Amazon EC2



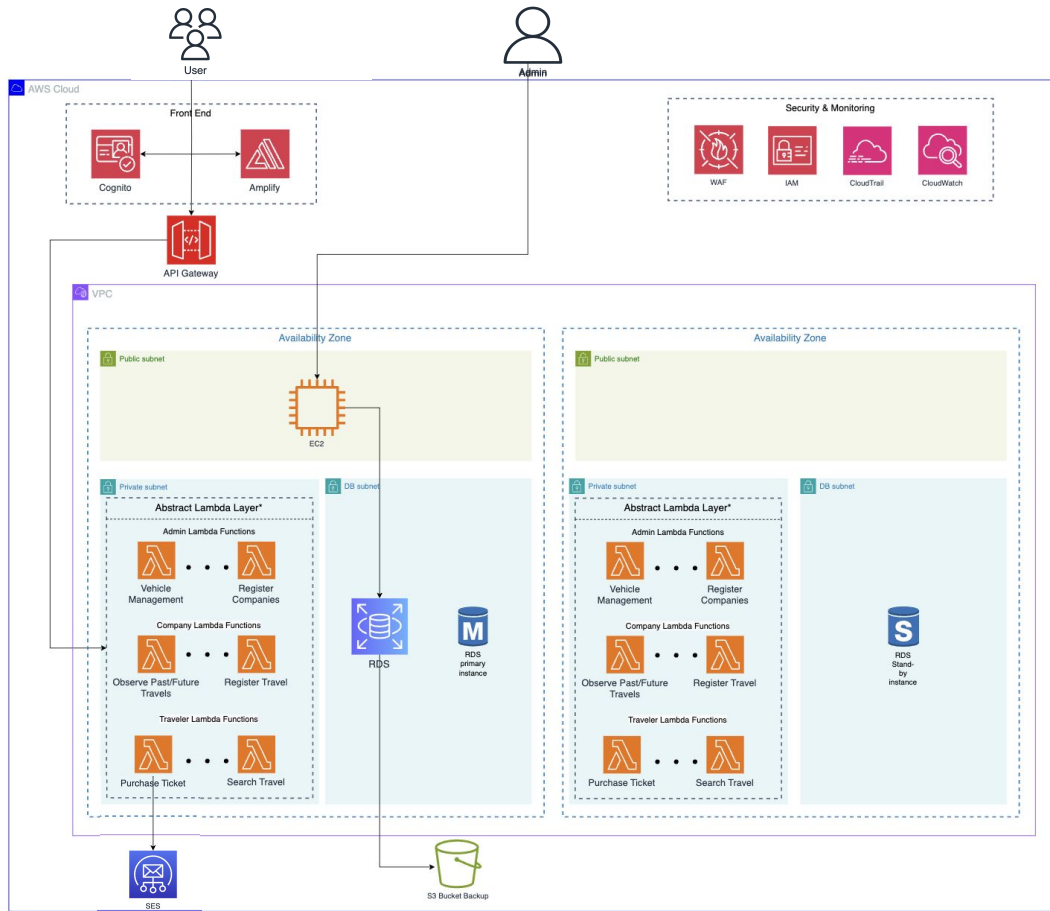
Amazon S3

→ Only Admin-RDS
connection

→ Storage Service

→ Development and
management

→ Only database
backup



AWS WAF

→ Filtering and Monitoring HTTP Traffic



AWS IAM

→ AWS Service Access Management



AWS CloudTrail

→ Tracking user activity and API usage



Amazon CloudWatch

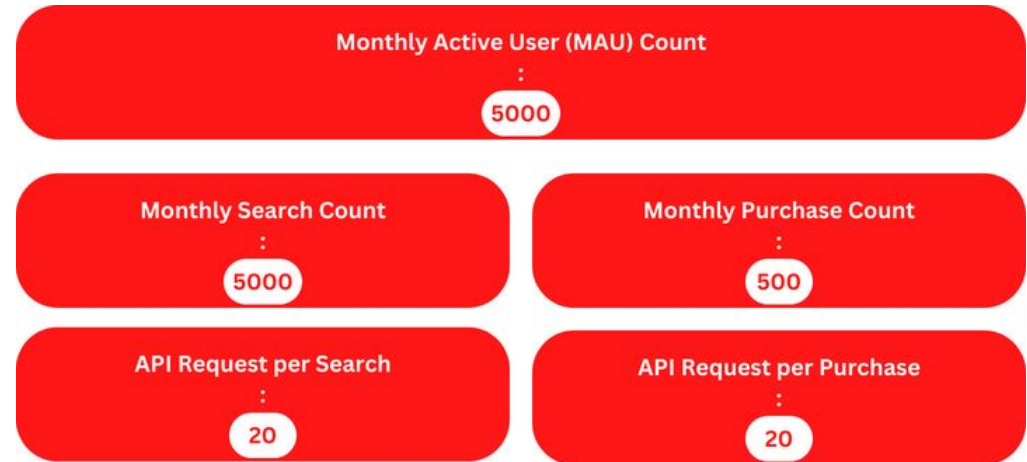
→ Logging data for monitoring



Cost Estimation



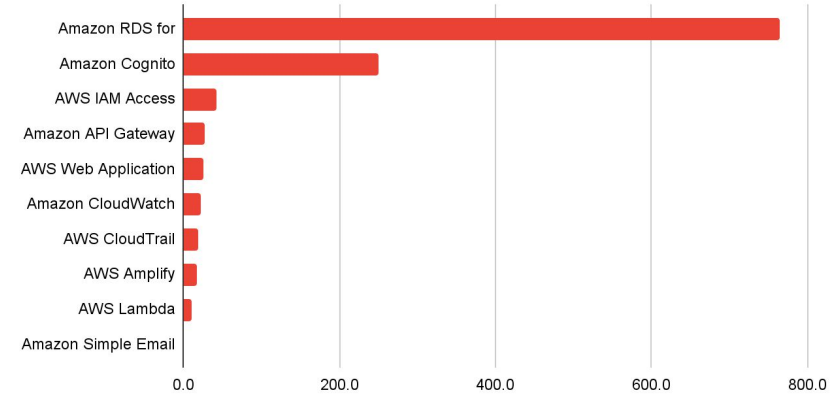
Assumptions





Service Name		Status	Upfront cost	Monthly cost
Amazon RDS for MySQL		-	0.00 USD	764.50 USD
Amazon Cognito		-	0.00 USD	250.00 USD
AWS IAM Access Analyzer		-	0.00 USD	42.00 USD
Amazon API Gateway		-	0.00 USD	27.68 USD
AWS Web Application Firewall (WAF)		-	0.00 USD	26.00 USD
Amazon CloudWatch		-	0.00 USD	22.09 USD
AWS CloudTrail		-	0.00 USD	20.00 USD
AWS Amplify		-	0.00 USD	17.88 USD
AWS Lambda		-	0.00 USD	11.19 USD
Amazon Simple Email Service (SES)		-	0.00 USD	0.72 USD

GelGit Travel Monthly Cost Estimation



Upfront Cost
:
0.00 USD

Monthly Cost
:
1,182.06 USD

Total 12 Months Cost
:
14,184.72 USD



Demo



Questions?
