SYSTEM ARCHITECTURE

USER

↓

REACT FRONTEND APP

↓

Static files (JS/CSS/...)
served by Nginx

↓

(React frontend makes API calls to backend via:)

↓

Amazon API Gateway / ALB
(everse proxy/load balancer for
Laravel backend APIs)

↓

Nginx Server
(Reverse Proxy & SSL
Termination)

↓

Laravel Application (Deployed in
EC2 or ECS/Fargate)

↓ ↓

MySQL / RDS (User, Subject, Exam
DB)

Amazon S3 (File/Image Storage - Public)

↓

Amazon SES / Mailgun (Password
reset & Email)

↓

Amazon CloudWatch & Logs (Error,
access, and custom app-level
logging)