User
Client

Region

Availability
Zone 1

Availability
Zone 2

IGW

Amazon
VPC

Public
Subnet 1

Public
Subnet 2

Amazon
ELB

EC2
Instance

EC2
Instance

Amazon
EC2
AutoScaling

Private
Subnet 1

Private
Subnet 2

RDS DB
Instance

RDS DB
Instance

M

M

MySQL
Database

My

When a client makes a request to the web application, the request is first sent to the load balancer. The load balancer distributes the request to one of the EC2 instances. The EC2 instance processes the request and retrieves or updates data from the backend database, which is hosted on RDS. The response is then sent back to the client through the same path.