

The Parking Solution You Need

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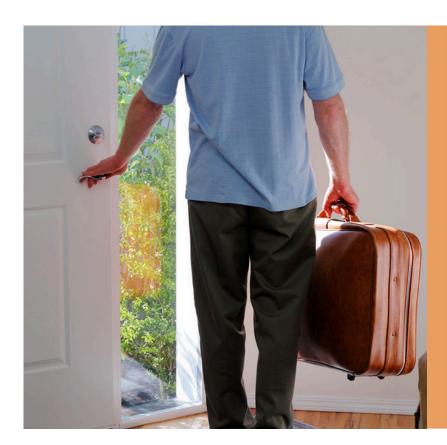
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Value proposition

The problem, our solution

Has this ever happened to you?



You leave home



You arrive near work



You don't know where to park

Our solution

An app that shows nearby parks depending on your location

An app that shows updated park occupation



Our solution

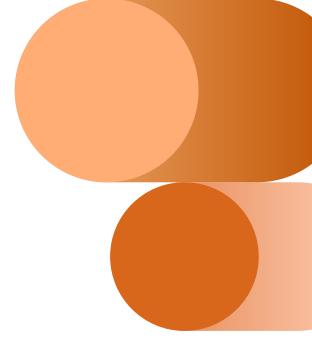
A platform that allows owners to manage their parks.

A platform where owners can see live information about their parks.

A platform where they can get a live feed of their park's cameras.



Main Functionalities





See Nearby Parks



See park capacity



Realtime information



Manage parks



Al powered occupation detection

Agile framework

Our very organized organization framework

SCRUM



Sprints

2 week sprints



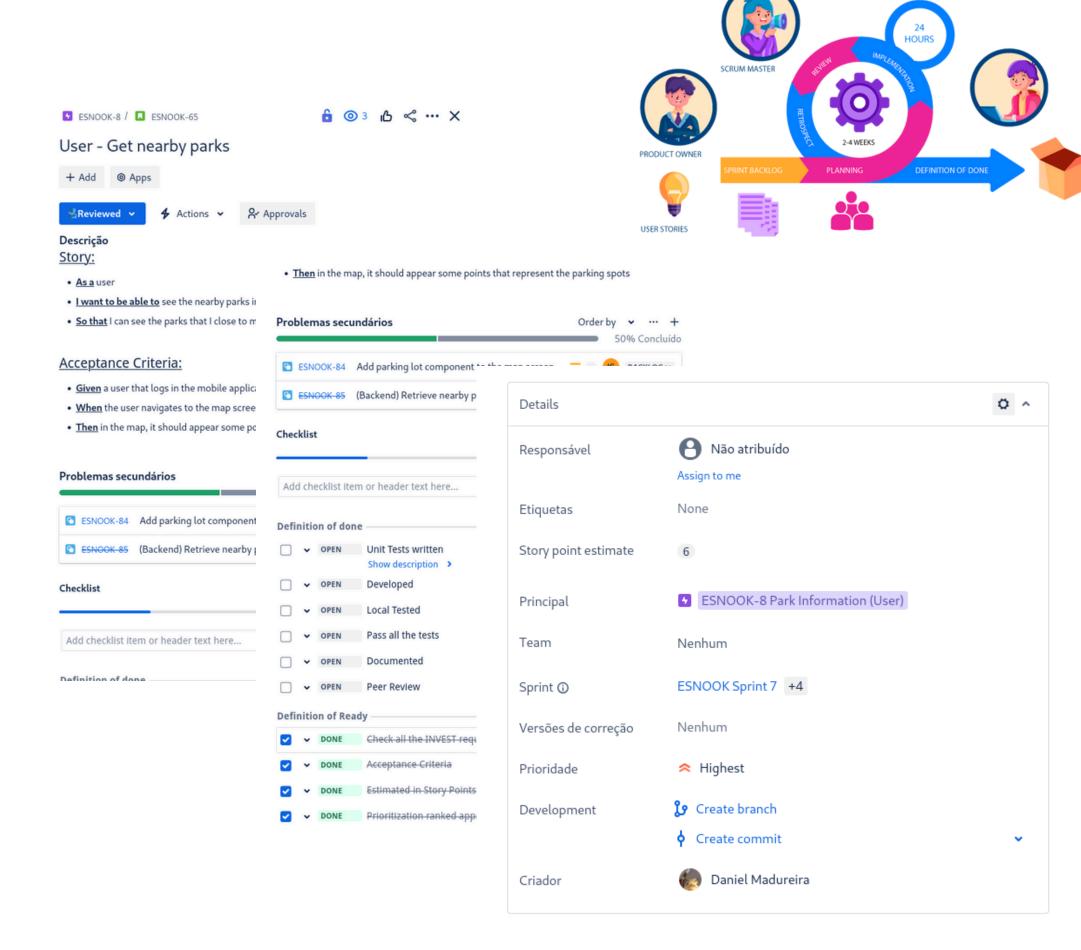
Planning

Sprint Planning Weekly meetings

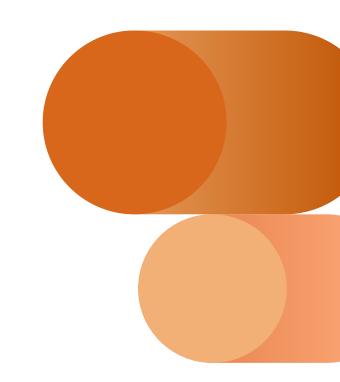


DoR & DoD

Definition of Ready and Done



Backlog





Epics

Our most top level objectives for the project



User Stories

In the form of:

As a < type of user >,
 I want < some goal >
so that < some reason >

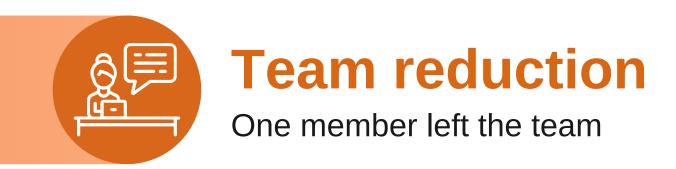




Tasks

Detailed pieces of work that are necessary to complete a story.

We faced some problems









Stories organization

The initial idea for user stories wasn't the best

We learnt



Meetings

The increased number of meeting helped us do more work



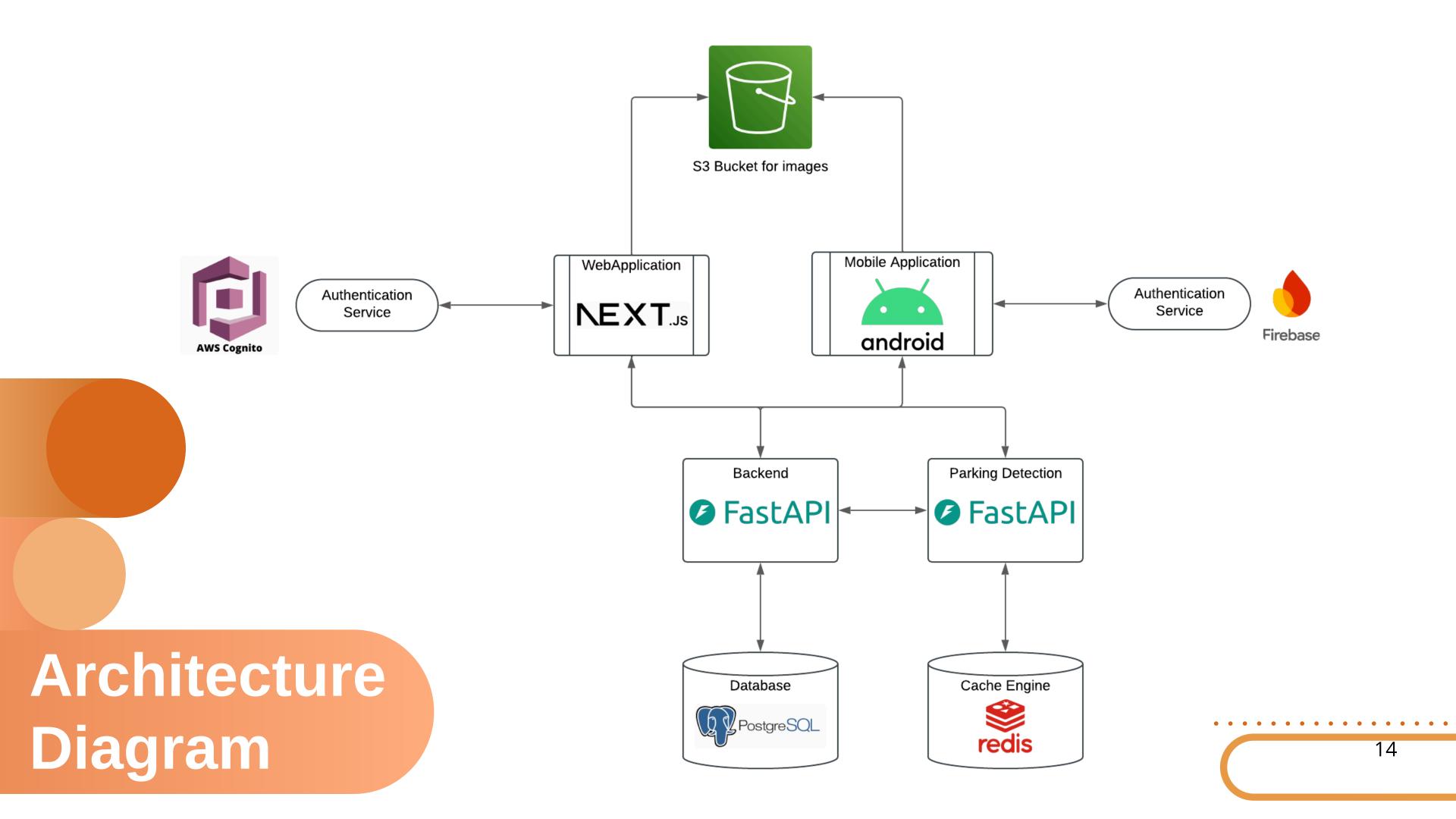
Structure

An horizontal approach was better than the initial vertical approach

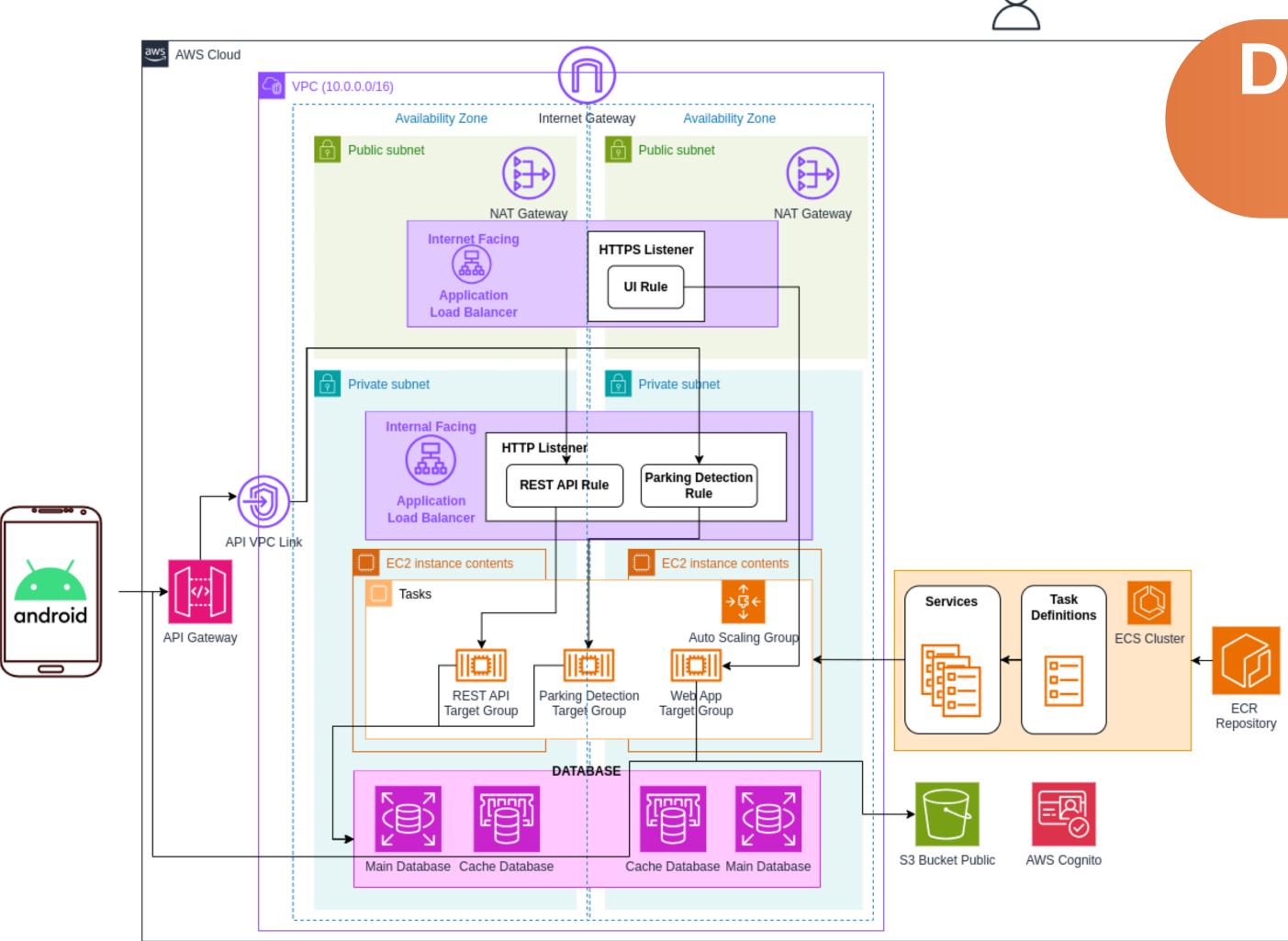


Architecture

Ah yes, pretty graphics







Deployment Diagram

AWS Services

Why save up money when you can burn it on the cloud?

Gates, Bill

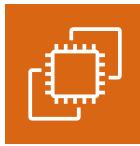
We used...



Container Registry



Elastic Container Service



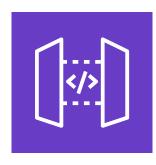
Elastic Compute Cloud



EC2
Auto scaling



Application Load Balancer



API Gateway



VPC Link

We used...



Relational Database Service



Amazon ElastiCache



Amazon S3 Bucket



Amazon Cloudwatch



Amazon Cognito

... and set up

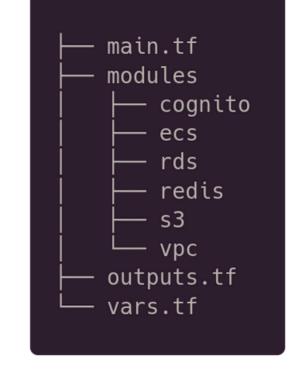


Define and manage AWS resources as code, enabling version control and collaboration.

Infrastructure as Code (IaC)

Reuse configurations across environments, ensuring reliable and repeatable deployments.

Consistency











Declarative Approach

Focus on desired infrastructure state; Terraform automates the provisioning process.

Scalability

Easily scale infrastructure up or down without disruptions.

LIVE DEMO

android app



Future work

If time wasn't a problem





Add more fuctionalities

Finish our low priority user stories on the backlog



Stress testing

Test the microservices with a lot of traffic / multiple video streams

Thanks

Do you have any questions?

