

Engim Report System

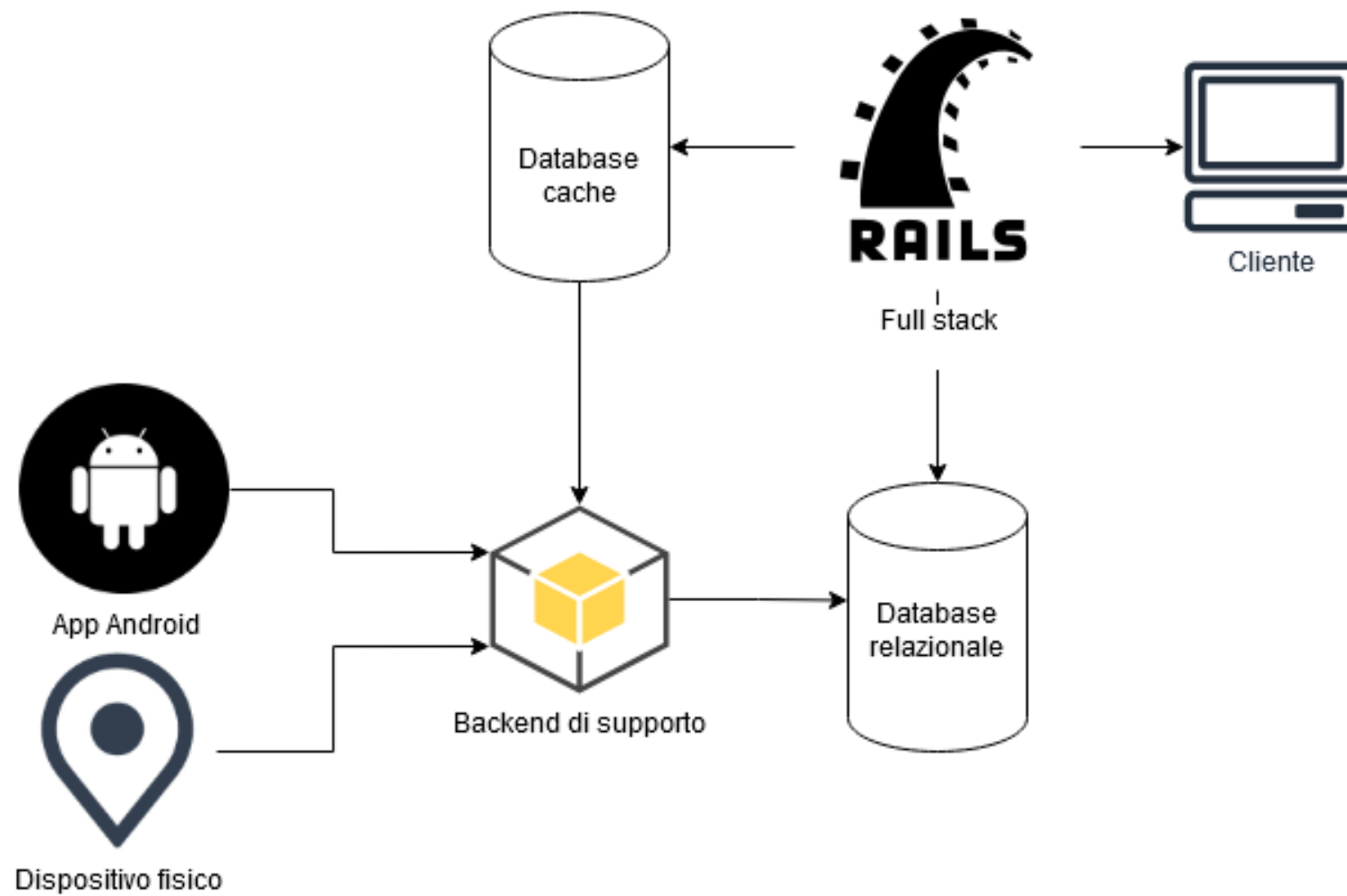
Dumitru Frunza

Engim SRL

- ServizioGPS
 - Dispositivi Fissi
 - Dispositivi Mobili
 - App
- Twicetouch
 - Badge
 - App



Infrastruttura

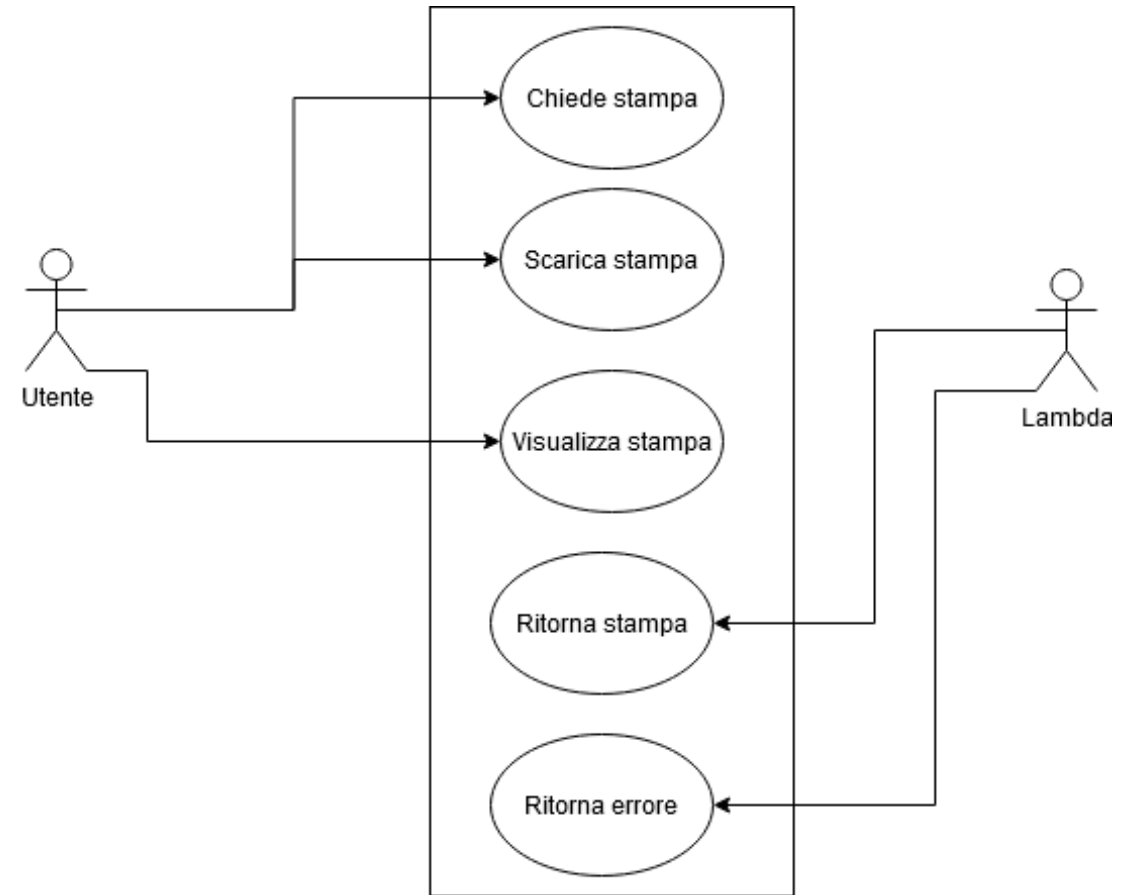
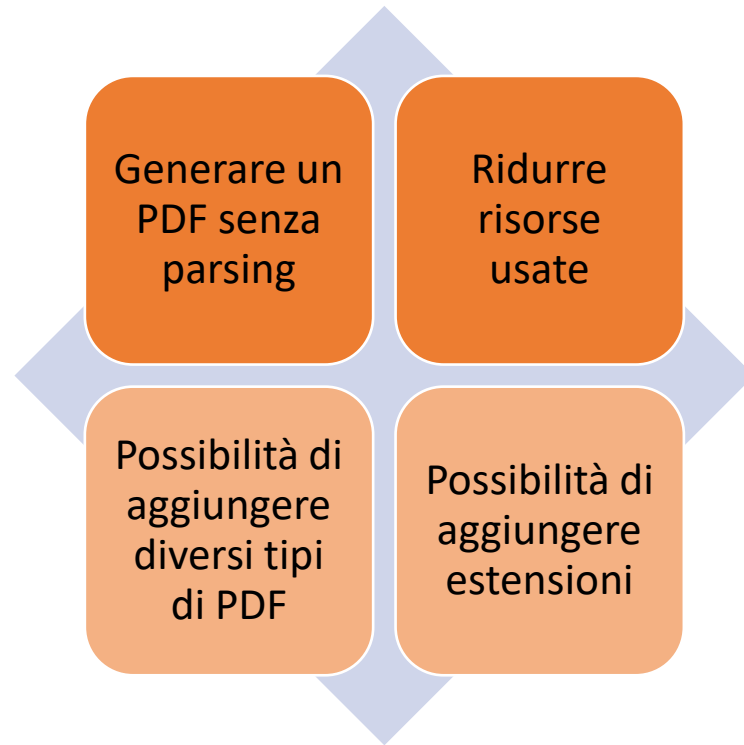


Sistema di report

- Tempo di esecuzione esponenziale
- Alto utilizzo di risorse
- Stampe incoerenti



Requisiti del progetto



Cloud computing

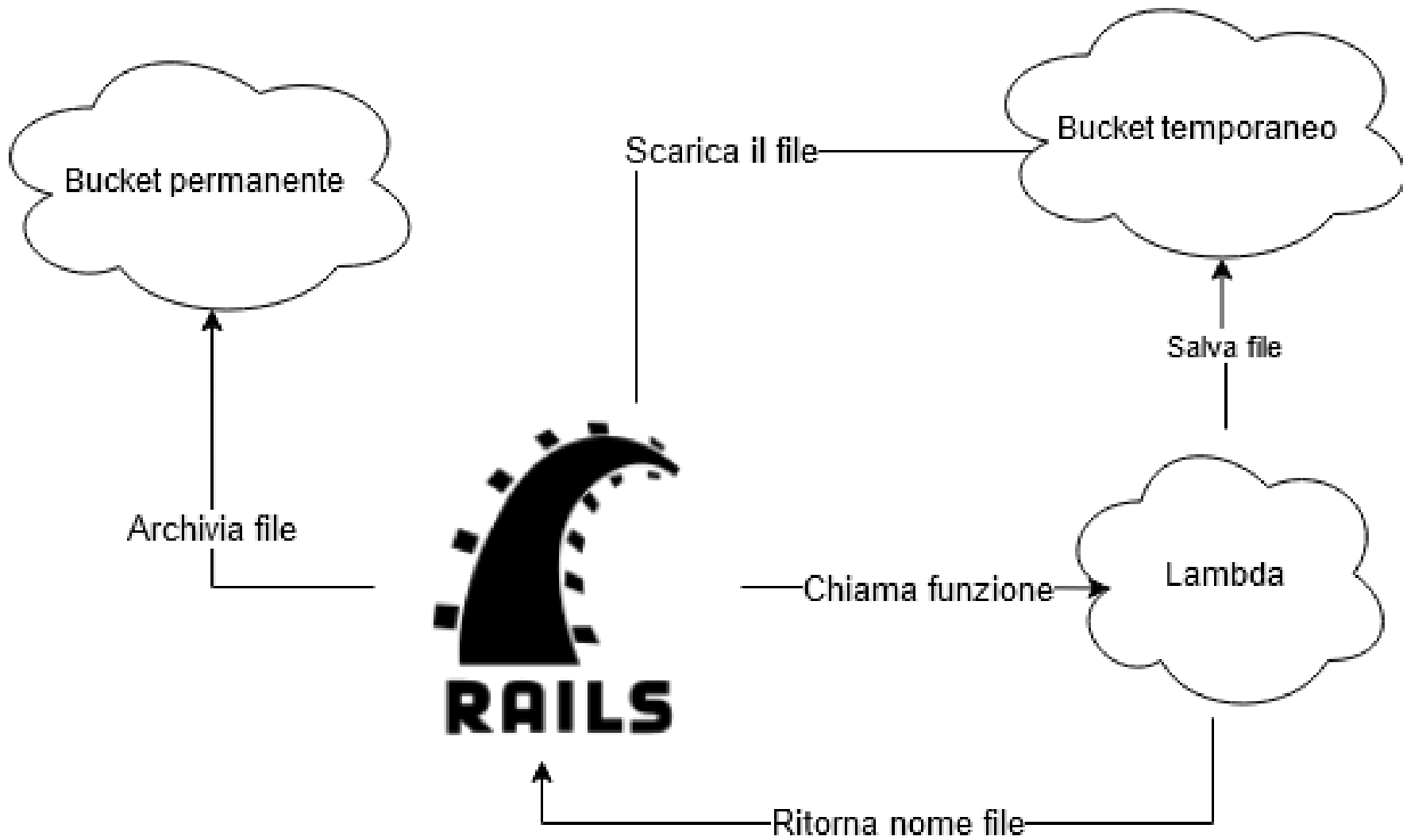
- Condivisione di risorse
- Pay as you go
- Microservizi

Amazon S3



AWS Lambda





Schema progettuale

- File JSON
- Header
- Body
- Table

Lambda

- Unica classe
- Stampe dinamiche
- Nodejs
- Errore 400
- Errore 500

CreatePDF
docWidth
docHeight
doc
documentWidth()
writeData()
writeHeader()
writeBody()
writeTable()
getDoc()

Risultati

- Report di una lista di attività
- Report di una singola attività

ServizioGPS Ver. 1.7.0 - Printed on Thu 16 Mar 2023, 09:18:36 Engim srl

Versione 1



Comune di Modena

Activity report



SERVIZIO
GPS

Id	First position time	Last position time	Comment
1	2022-12-28 15:51:38 +0100	2022-12-28 15:51:38 +0100	

User	Device	IMEI	Called to service by
	123	122456789012345	admin

Total service
0s

Calculated distance
15.0 km of 0.0 km +5.00 km

Activity type	Total km cost	Total time cost
Tracking	0.0 €	0.0 €

Incl.	Position time	Duration	Address	Distance	Km/h
Included	2022-10-19 09:16:54 +0200	1 of 1 min	Via IV Novembre 1	0 of 0 m	min:0 mean:0 max:0

ServizioGPS Ver. 1.7.0 - Printed on Thu 16 Mar 2023, 09:14:53 Engim srl

Versione 1



SERVIZIO
GPS

Report



SERVIZIO
GPS

Activities: 6

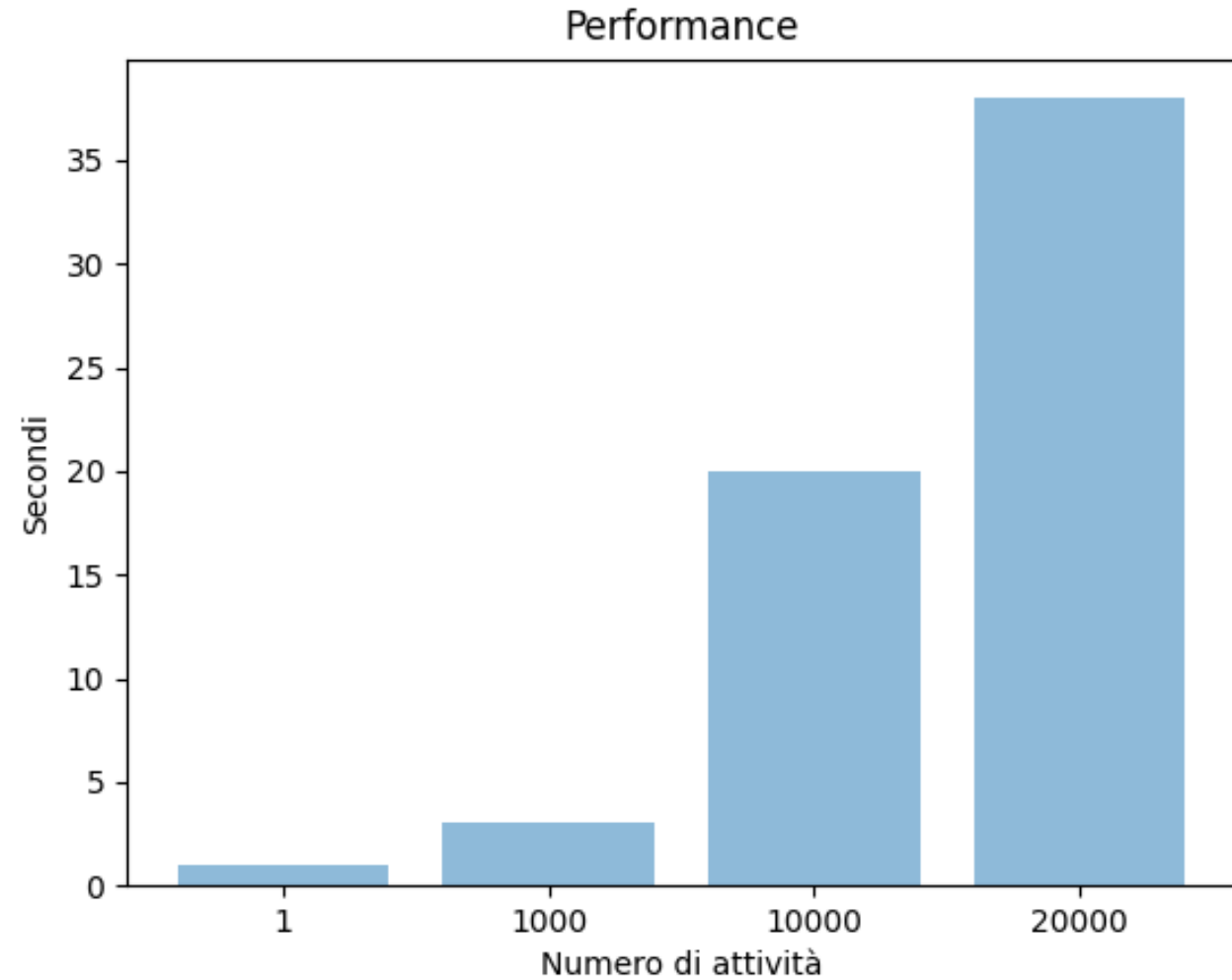
First activity time	Last activity time	Calculated distance	Total service
Wed 28 Dec 2022, 15:51:38	Wed 08 Mar 2023, 00:00:00	15.0 km	131.17 h

Not reduced km cost	Not reduced time cost	Not reduced time cost
0.0 €	0.0 €	25.0 €

Id	Status	First position time	Activity type	Device	User	Company	Total service
4		Wed 28 Dec 2022, 15:51:38	Tracking	123	admin	Engim	0.0 min - 5.0 km
5		Wed 28 Dec 2022, 15:51:38	Tracking	123	admin	Engim	0.0 min - 5.0 km
6		Wed 08 Mar 2023, 00:00:00	Tracking	123	admin	Engim	0.0 min - 0.0 km
1		Wed 28 Dec 2022, 15:51:38	Tracking	123	admin	Engim	0.0 min - 5.0 km
2		Wed 28 Dec 2022, 15:51:38	Tracking	123	admin	Engim	0.0 min - 5.0 km
3		Wed 28 Dec 2022, 15:51:38	Tracking	123	admin	Engim	0.0 min - 5.0 km

Performance

- Performance lineare
- Nessun crash al crescere del document





Grazie per
l'attenzione