



KPI 5

WEB APP SOLUTION FOR
KPI MANAGEMENT



04 November 2023

deploy(impact) program



KPI 5 Team



Delfim Almeida
Frontend



Karin Sim
Data Scientist



Raphael Cordon
Backend



Petra Brunner
PM



Kyrian Uzoagba
UX&UI



Salomea Shengelia
UX&UI



Mihaela Brankova
Team Satellite



Problem

- **Pro Juventute** has a large variety of activities and programs
 - Collecting KPIs from diverse audiences
 - Some KPIs are collected automatically and others, manually
- The reports are not standardized
 - The daily basis management of the reports is complex
 - Lacking visibility due to the differences between reports



How we intend to solve

- Building a **Web Application** as a single data entry point:
 - **REPORTS** can be added, updated and visualized (**CRUD**)
 - **KPIs** can be set and adjusted as needed
 - **INTEGRATION** with external tools, in a managed and secure way
- A **modular and modern App**
 - A user-driven solution
 - Must be easy to use, maintain, update and scale

Web App structure

Modular structure

FRONT END



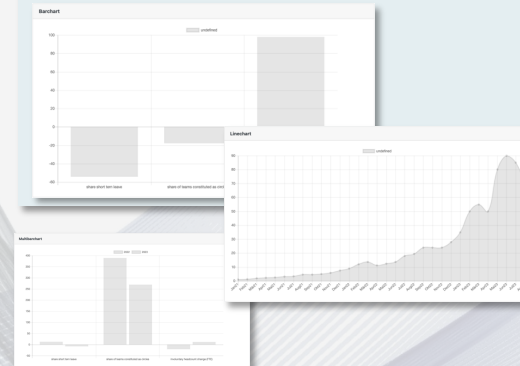
React

TypeScript

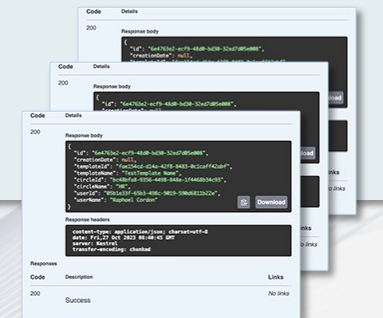
BACK END



API for building
Graphics



API for external
access to Data

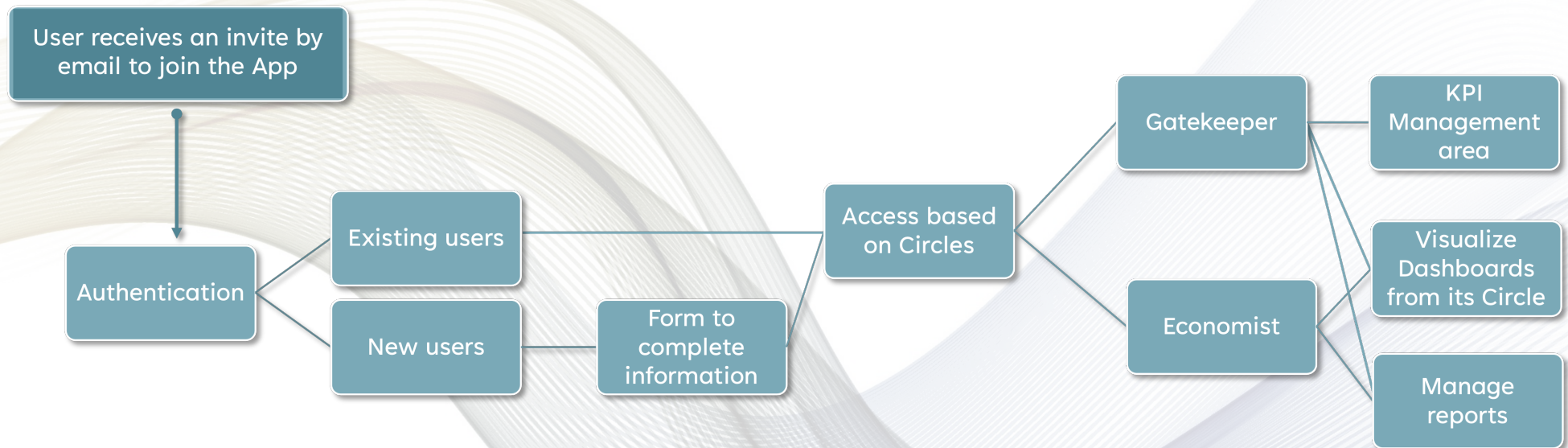


supabase



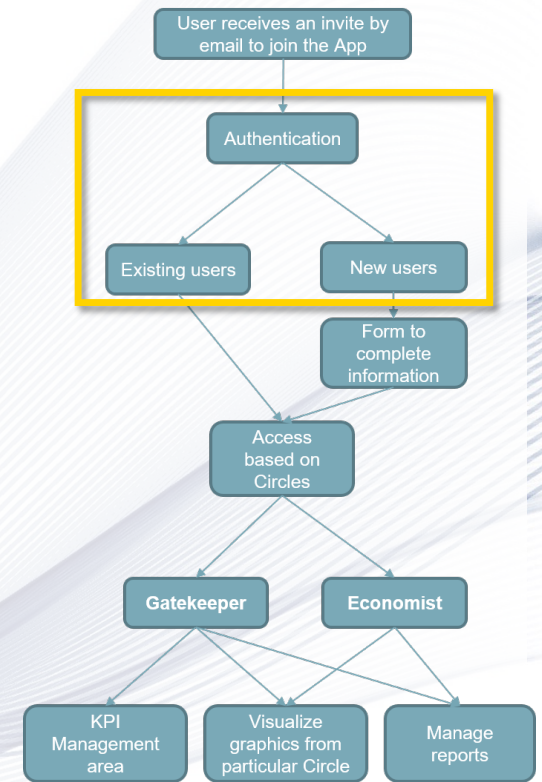
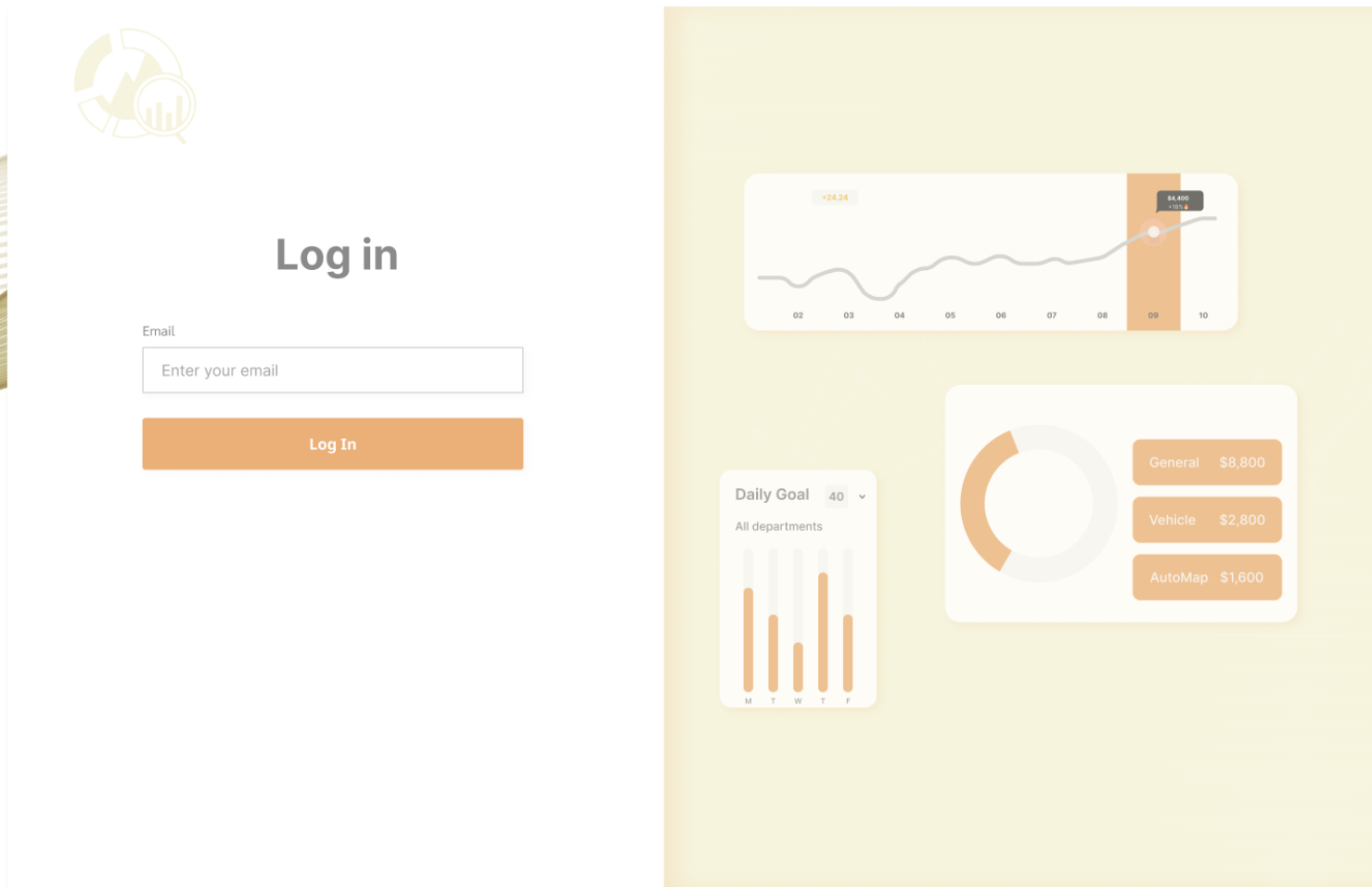
Database and Authentication

Web App – User's journey

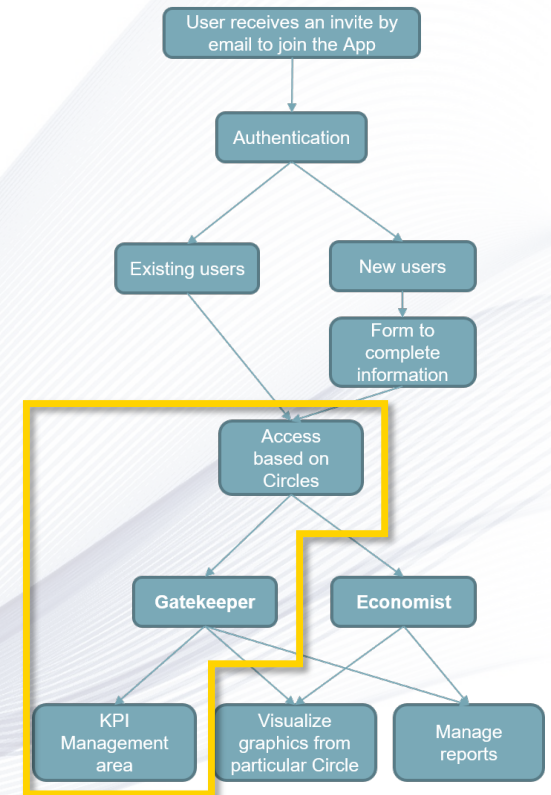
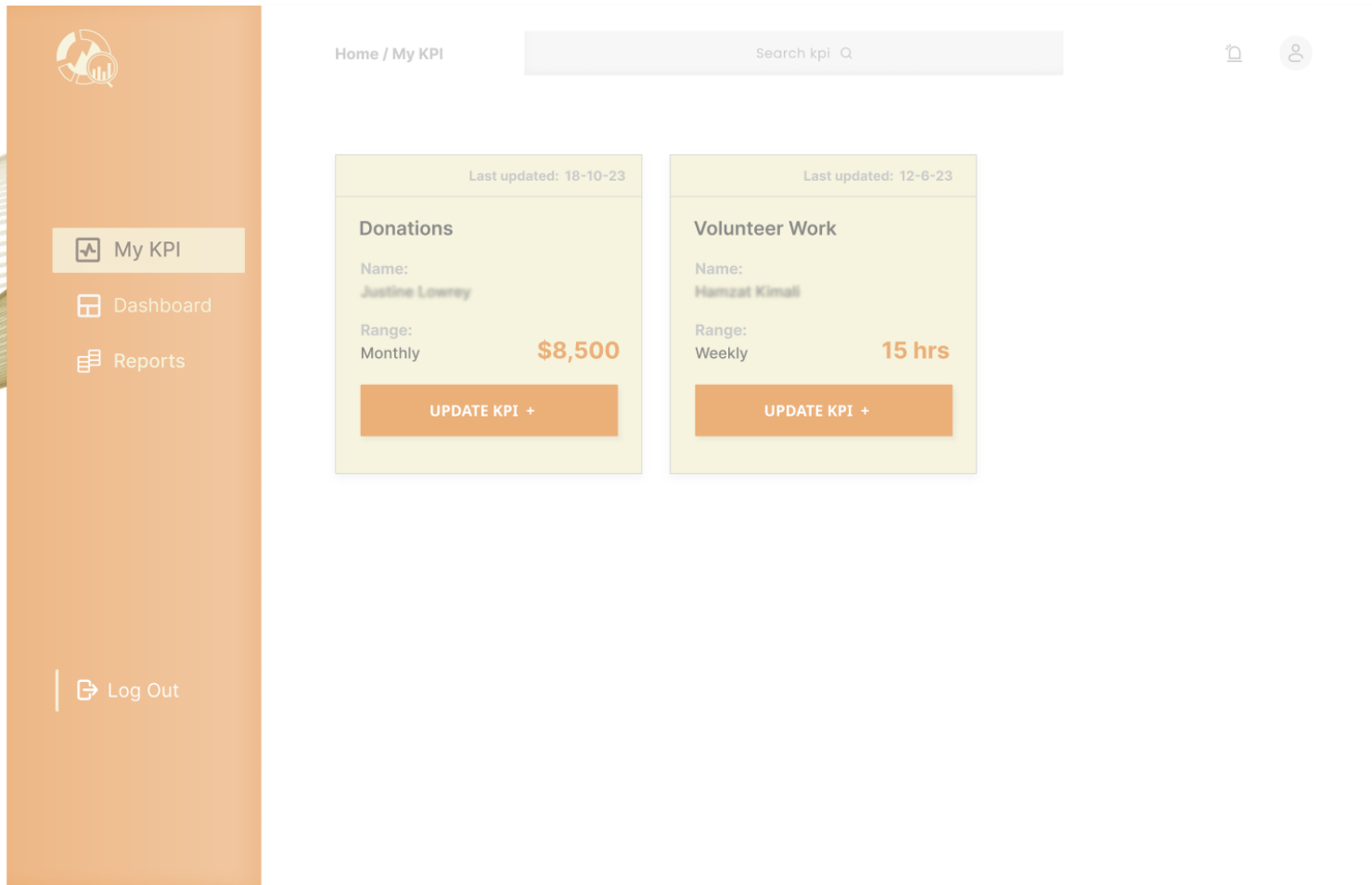


The MVP aims to cover the happy path, variations of the scenario above to be included in future releases

Web App – Authentication



Web App – KPIs



Web App – KPIs

Home / My KPI

Search kpi Q

Fill KPI Form

Name

Name

Category

Category

Periodicity

Periodicity

Value

Value

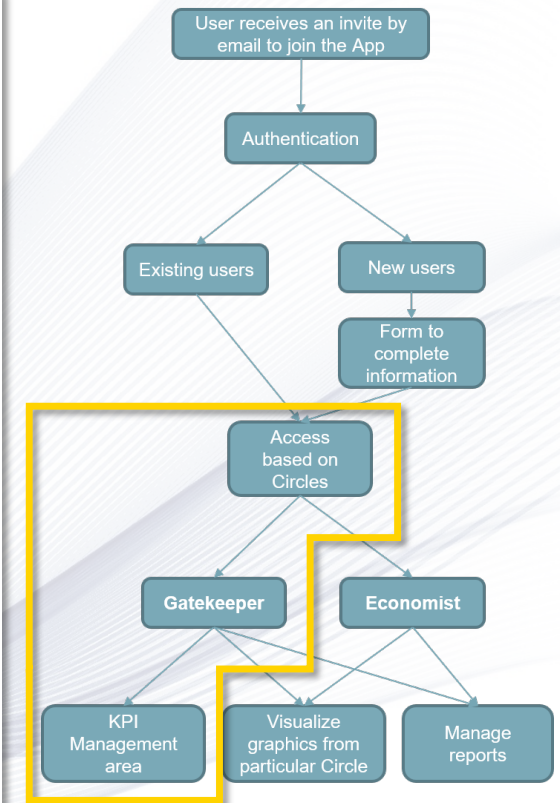
Submit

My KPI


Dashboard

Reports

Log Out



Web App – Reports



My KPI

Dashboard

Reports

Log Out

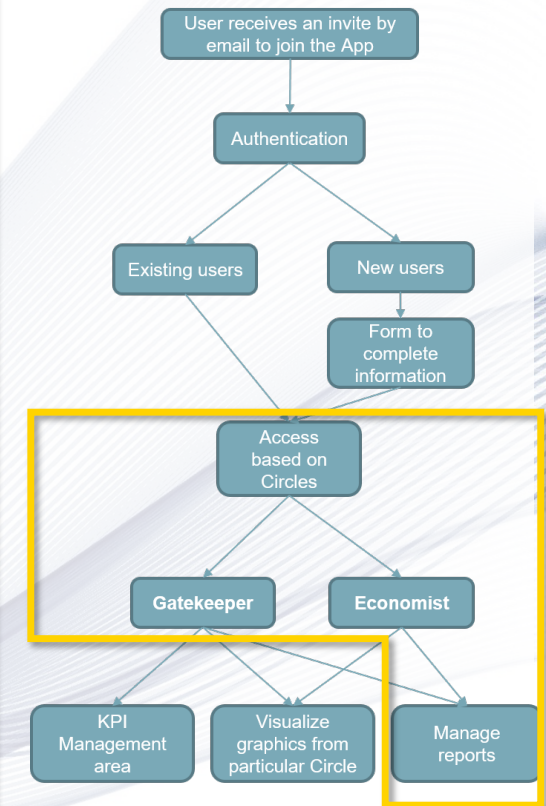
Home/ Reports

Search kpi

🔔

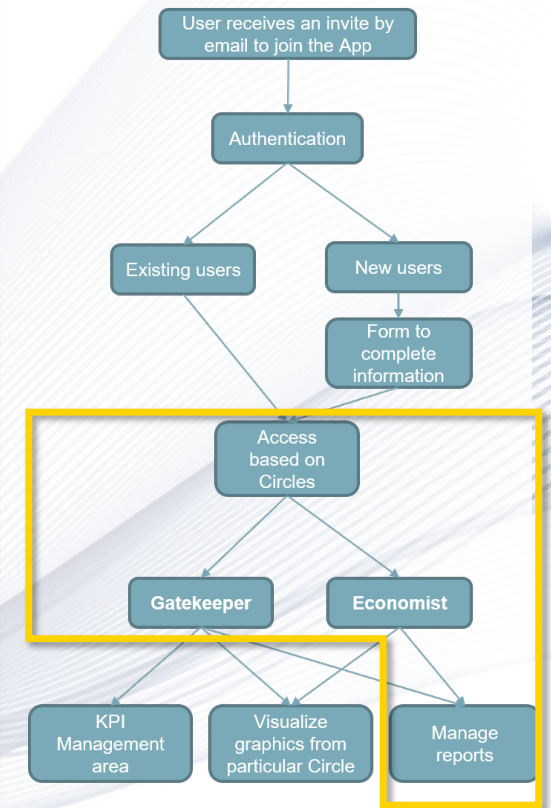
👤

Select kpi filter	Name	Category	Target Value	Value	Periodicity	Date	Edit	Save	Download
	involuntary headcount (FTE)	1	1.2	1.01	month	Aug-23			
	share of teams constituted as circles	2	80	70	month	Aug-23			
	share short term leave	3	2.0	0.93	month	Aug-23			
	involuntary headcount (FTE)	4	1.2	0.51	month	Jul-23			
	share of teams constituted as circles	5	80	85	month	Jul-23			
	share of teams constituted as circles	6	80	90	month	Jun-23			
	share short term leave	7	2.0	2.58	month	Jun-23			
	share short term leave	8	2.0	3.3	month	May-23			
	share of teams constituted as circles	9	80	80	month	May-23			

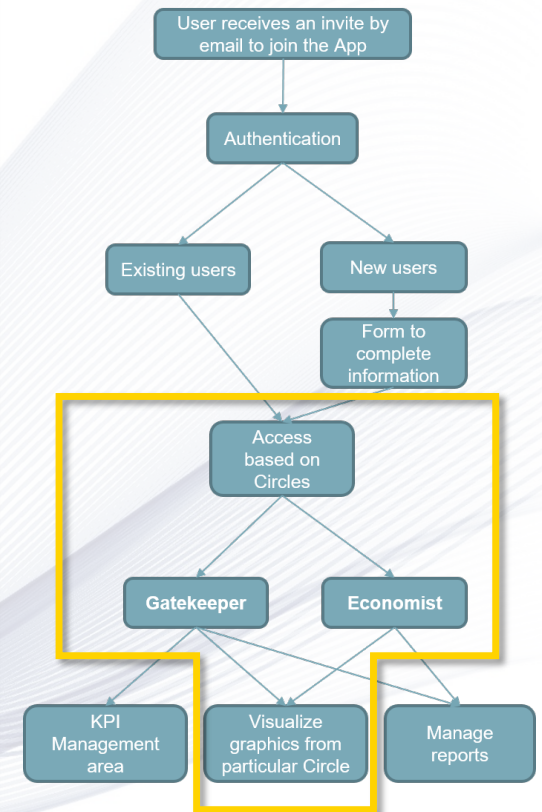
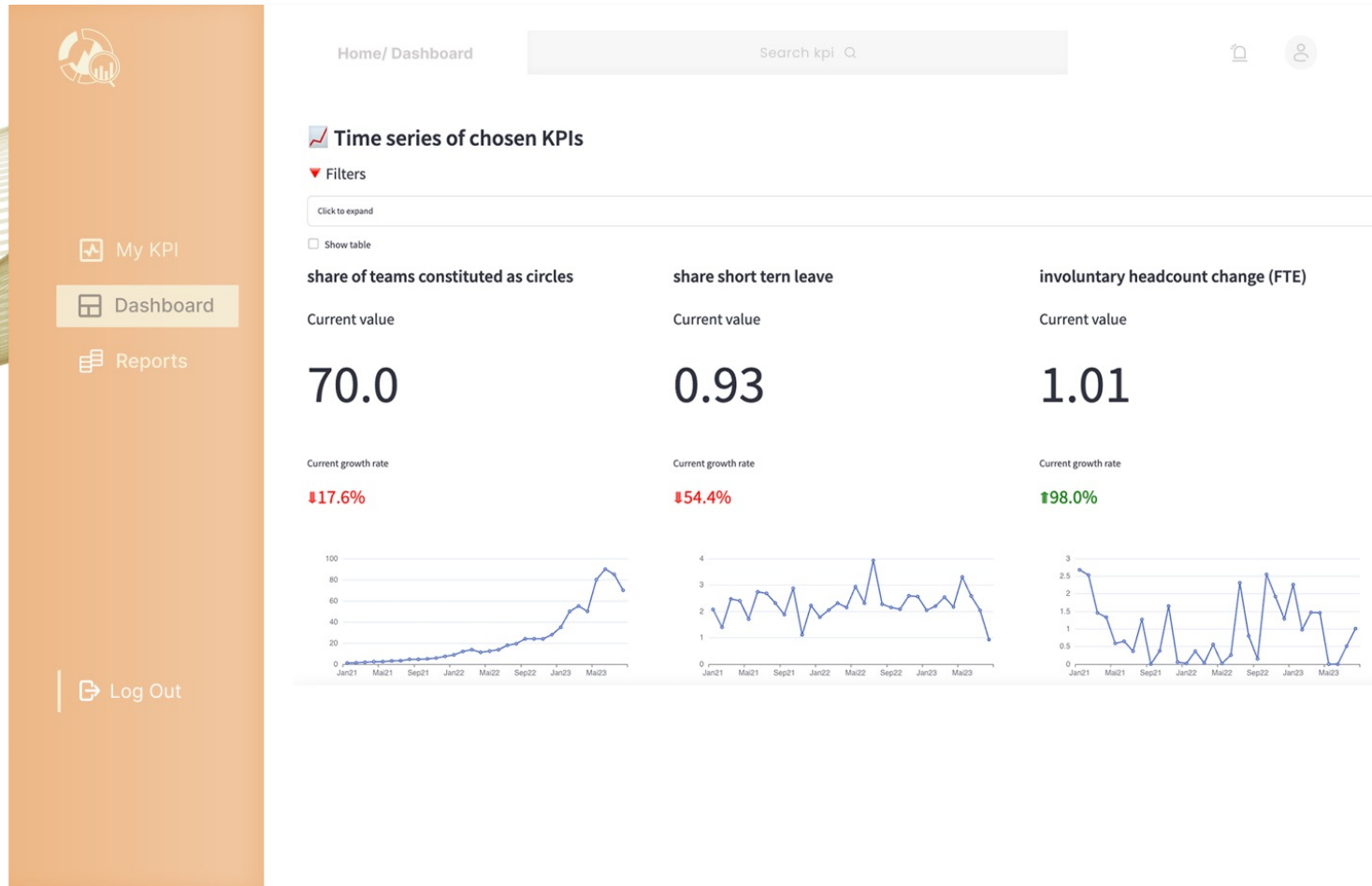


Web App – Reports

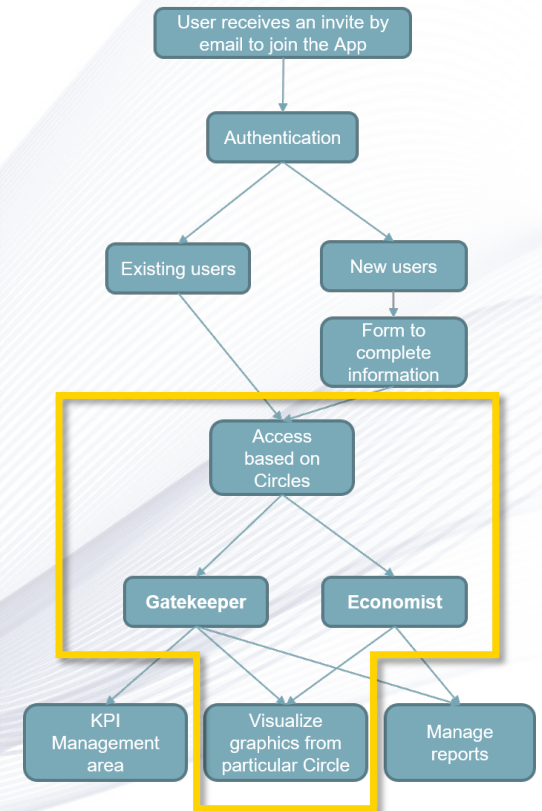
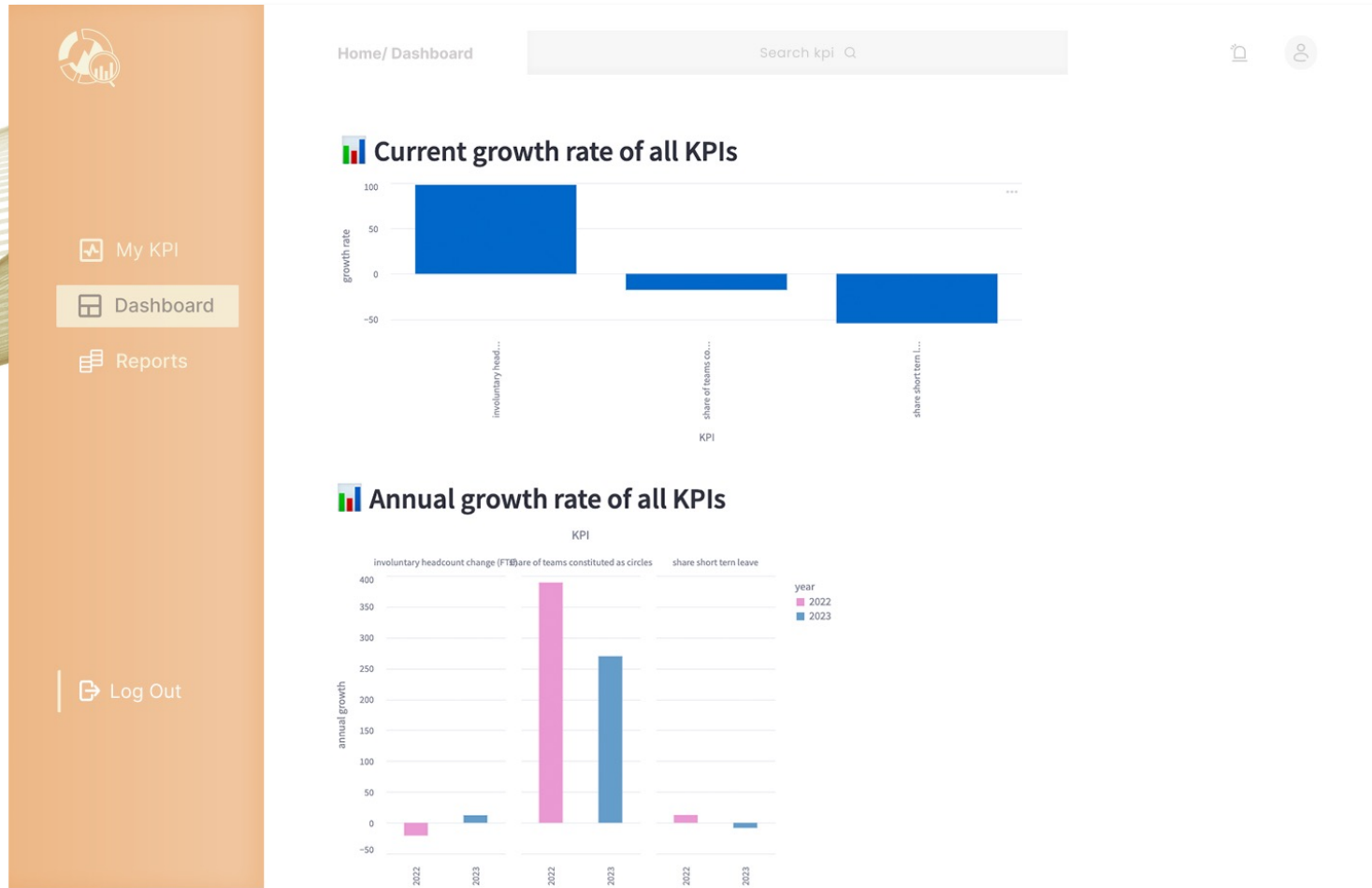
The screenshot shows a web application interface for filling a report form. On the left is an orange sidebar with a circular icon at the top and three menu items: 'My KPI', 'Dashboard', and 'Reports' (which is highlighted). At the bottom of the sidebar is a 'Log Out' button. The main content area is white and titled 'Fill Report Form'. It contains four input fields: 'Name', 'Category', 'Periodicity', and 'Value'. Below these fields is an orange 'Submit' button. In the top right corner of the main area, there are two small circular icons.



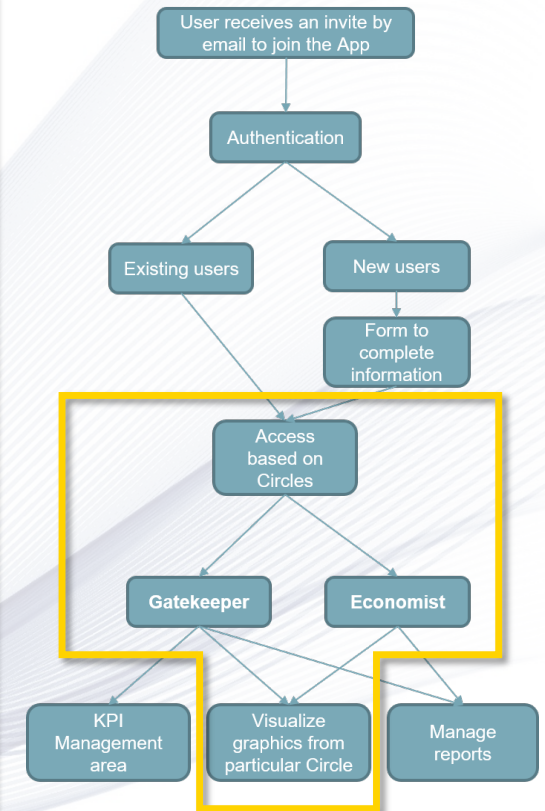
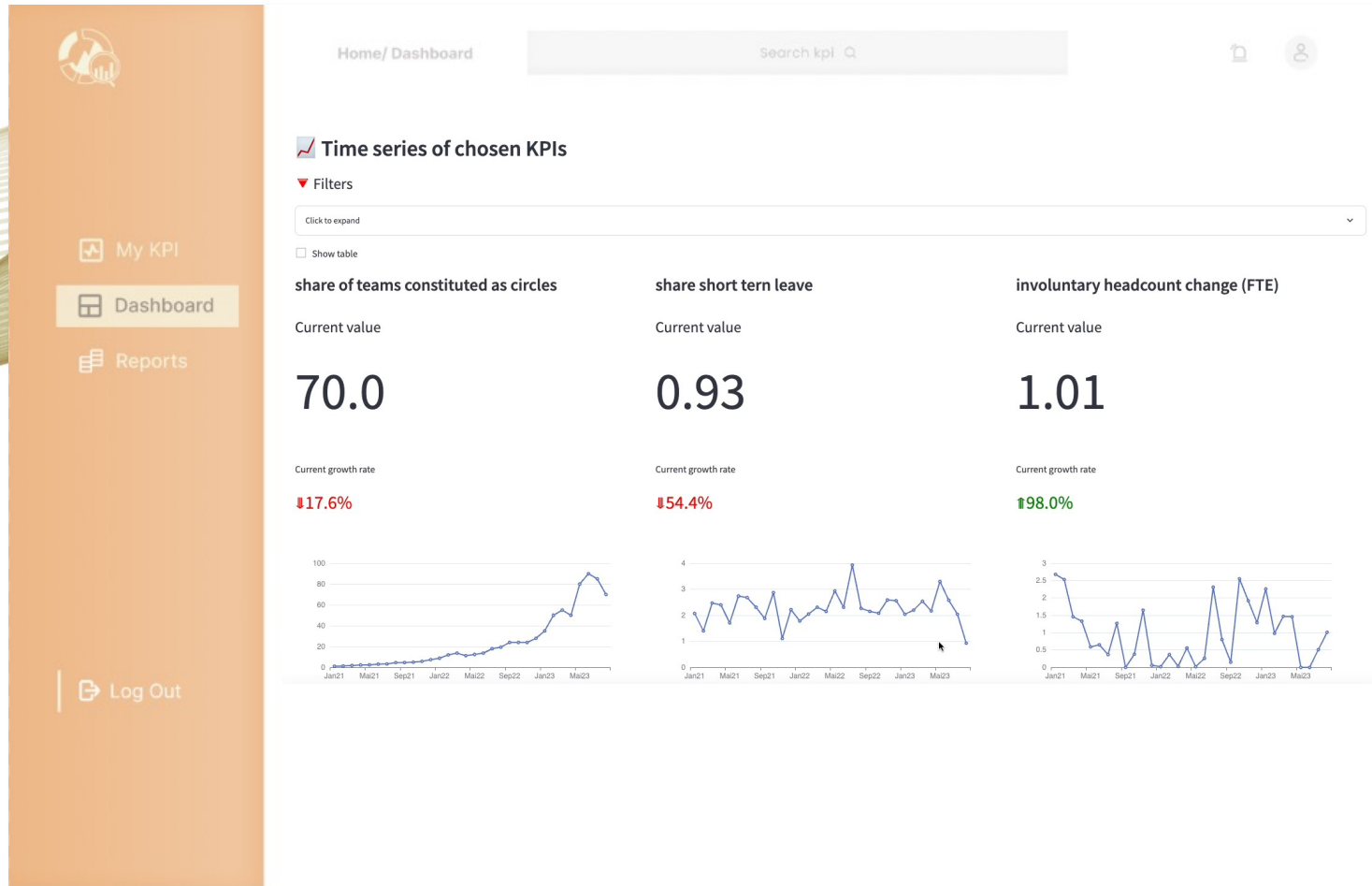
Web App – Dashboards



Web App – Dashboards



Web App – Dashboards



Learned Lessons

Technical

- Integration between frontend/backend

Independent modules providing standardized data (RESTful APIs)

Parallelized technical activities, improving performance

- Add value to the backend using Supabase

Building a Read-only API, protecting data without restricting the access

Learned Lessons



Team working

- **Team member losses:** One replacement and two losses

United the team, communication was KEY

The project was redesigned to fit the new size, focusing on each one's expertise

- Stressful moments:

Scope (re)definition, team re-sizing and technical blockers

We agreed upon an MVP

Spoke and listened openly

Learned new skills to conclude the project

KPI 5 Team



Delfim Almeida

dealmeida.dev@gmail.com
github.com/dealmeida-dev



Kyrian Uzoagba

jaodesigns00@gmail.com
github.com/jaodx0



Salomea Shengelia

salomeashengelia18@gmail.com
github.com/Sallyshengelia



Petra Brunner

brennwaldpetra@gmail.com
linkedin.com/in/petra-brunner



Raphael Cordon

cordon@outlook.com
linkedin.com/in/raphael-cordon
github.com/raphaelcordon



Karin Sim

karinsim25@gmail.com
linkedin.com/in/karin-nakanishi-577967272
github.com/karinsim



Mihaela Brankova

mi.brankova@gmail.com
linkedin.com/in/mihaela-brankova