





Culture Finder

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Índice



Problema



Solución



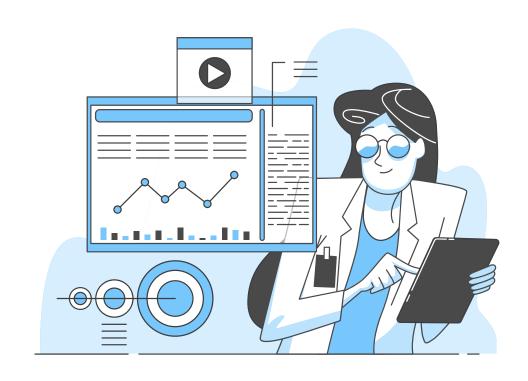
Metodología

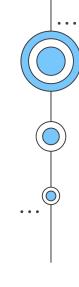


Tecnología

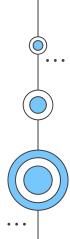


Demo



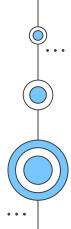


01 Problema





02 Solución

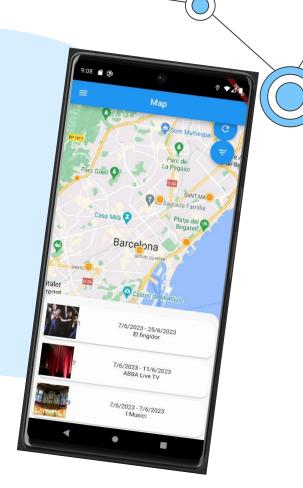


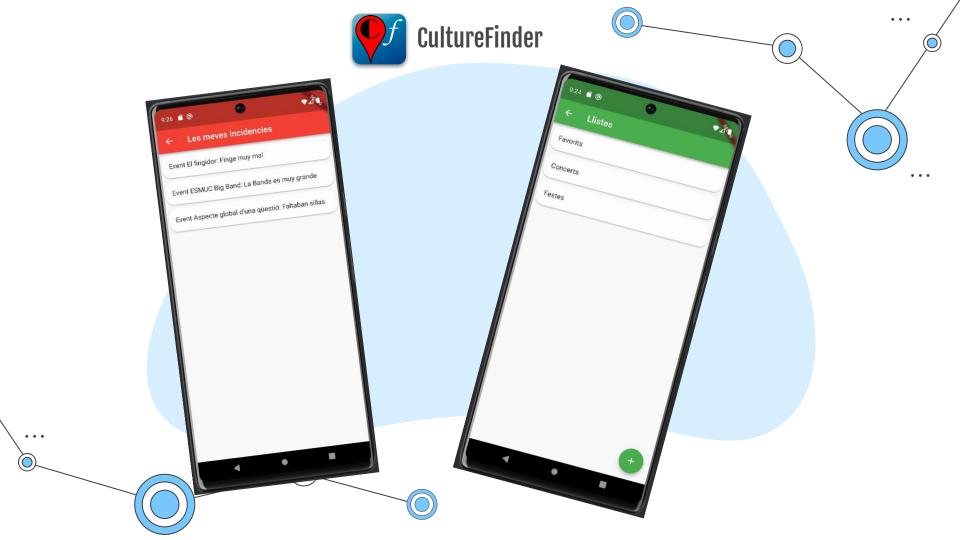


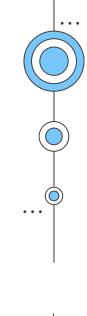


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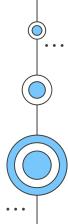


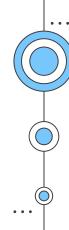






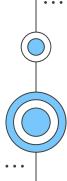
03 Metodología





División de equipos

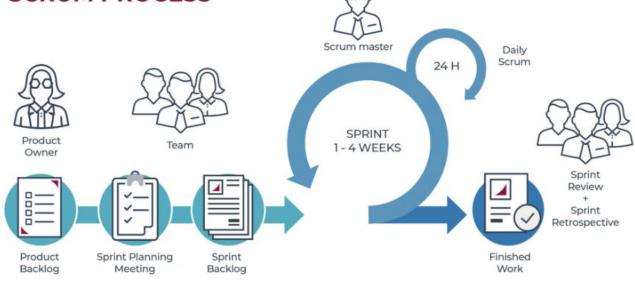




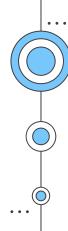


Scrum

SCRUM PROCESS







Gestión del proyecto



Trello

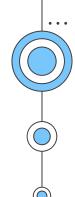
- Inception
- Decisión de funcionalidades
- Tareas no relacionadas con historias de usuario



Discord

- Comunicación
- Reuniones
- Enlaces de interés
- Pair programming







Taiga

Epics



- Creación de épicas y historias de usuario
- Un story point ~ 1 hora de trabajo
- Estimación de puntos

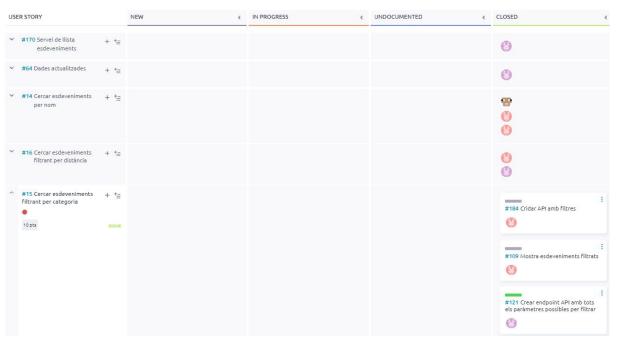




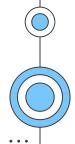


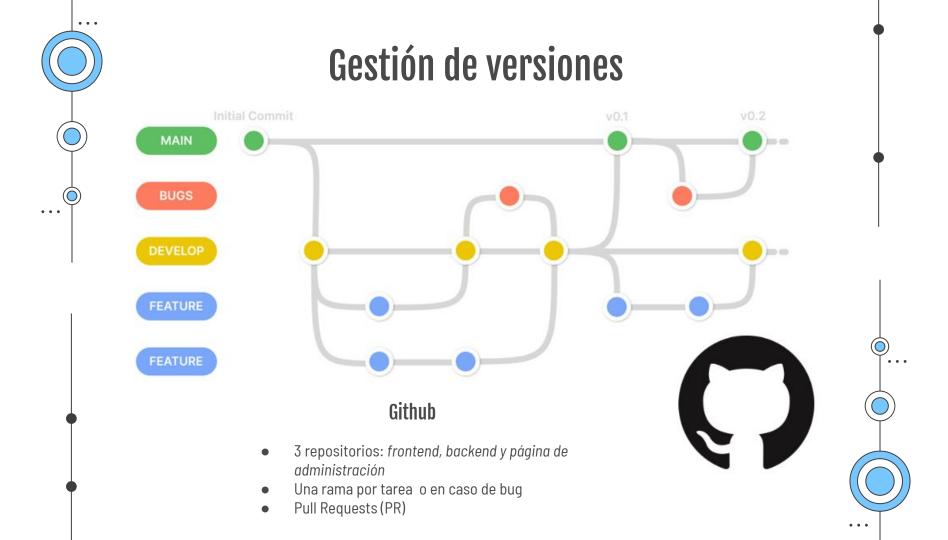
Taiga

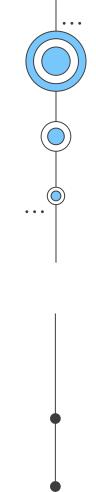
Prioridades del board



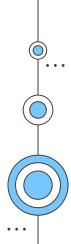
- Historias de usuario
- Tareas
- DoD y
 Acceptance
 Criteria

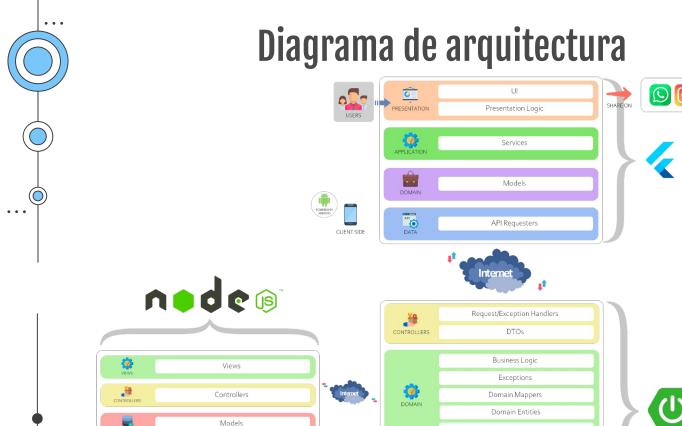






Tecnología





Domain Services

Data Mappers

Data Services

Data Models

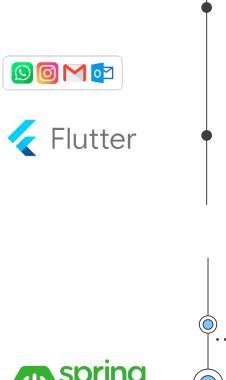
Repositories

DATA

PostgreSQL

SERVER SIDE

(using Virtech's)





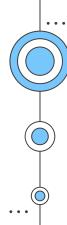
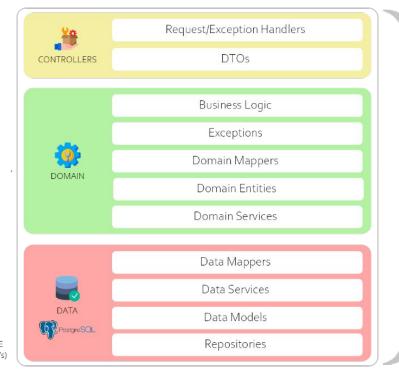


Diagrama de arquitectura









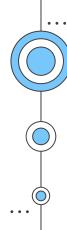
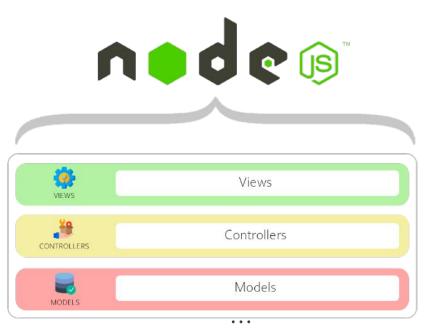
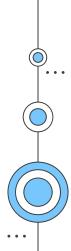


Diagrama de arquitectura





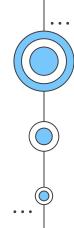
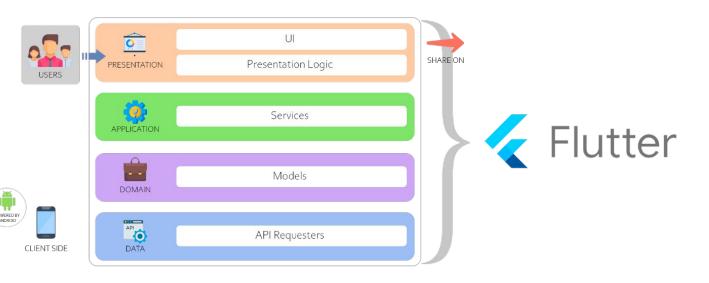


Diagrama de arquitectura





IDEs





- Java plugin
- Github copilot









Android Studio

- Dart plugin
- Flutter plugin
- Github copilot







WebStorm

- JavaScript plugin
- Github copilot

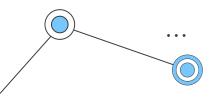




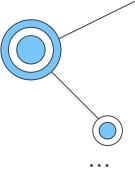








Librerías - Backend



01

Jackson

Parsing JSON <-> Objeto

02

MapStruct

Mapping de objetos de clases diferentes

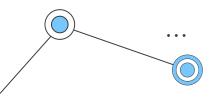
03

Liquibase

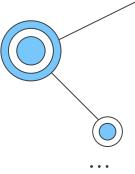
Changelog y evolución del esquema de la BD 04

OpenAPI

Especificación API + Auto Swagger



Librerías - Backend



05

Lombok

Anotaciones sencillas para las clases

06

JsonWebToken

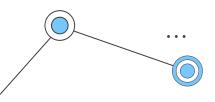
Codificación de información

JSoup
Limpieza de datos

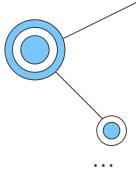
08

FirebaseAdmin

Conexión con Google Firebase



Librerías - Frontend



01

SharedPreferences

Abstracción del sistema de almacenaje de cada dispositivo 02

TableCalendar

Widget y funciones para calendarios

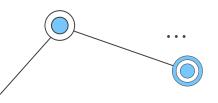
03

Riverpod

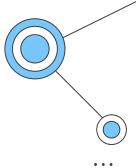
Librería para el manejo de estados de los componentes de la aplicación 04

Firebase

Librería para abstraer las funcionalidades de firebase (auth, notifications)



Librerías - Frontend



05

Google Maps for Flutter

API de Google Maps para Flutter 06

Geolocator

Librería que abstrae las llamadas a la API de localización del dispositivo

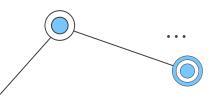
07

Permission Handler

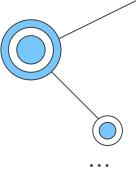
Librería que abstrae el manejo de los diferentes permisos. (ubicación, camara, etc) 08

Google Maps Cluster

Librería para facilitar el geocaching y el manejo de los marcadores en el mapa



Librerías - Frontend



09

Google Sign In

Librería para facilitar el sign-in con google

10

Image Picker

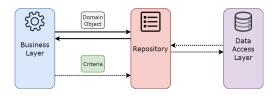
Librería para acceder a las imágenes del dispositivo

Patrones de diseño - Backend



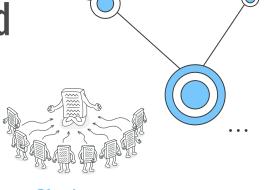
DTO

Objetos para transmisión de datos



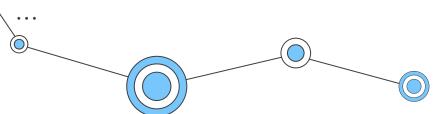
Repository

Clases que interactúan con la BD

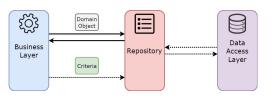


Singleton

Clases con una única instancia

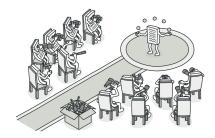


Patrones de diseño - Frontend



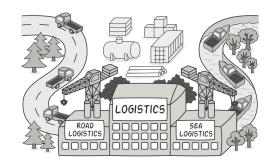
Repository

Abstracción de la obtención de datos



Observador

Una clase sujeto notifica a sus observadores cuando cambia su estado



Factory

Una clase se encarga de crear instancias.

Dart nos permite crear métodos factory en una misma clase



Singleton

Clases con una única instancia





Servidores





Virtech(I)

Aplicación backend

+

BD

. . .



Virtech(II)

Aplicación web de administración de incidencias

• • •



Google Firebase

Credenciales de los usuarios

+

Imágenes de perfil

. . .



Diagrama de la BD



< PK >id	TEXT
name	VARCHAR
birthDate	DATE
profileImage	TEXT
preferredCategories	TEXT
isAdmin	BOOLEAN

sessions	
<fk>userId</fk>	TEXT
token	VARCHAR
deviceToken	VARCHAR

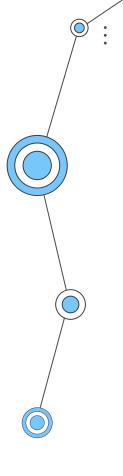
saved_events_lis	sts	
< FK> listId	BIGINT	
<fk>eventId</fk>	BIGINT	

assistances		
<fk>userId</fk>	TEXT	
< FK >eventId	BIGINT	

event_ratings	atings	
< FK >eventId	BIGINT	
< FK> userId	TEXT	
score	INTEGER	

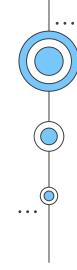
lists	
< PK >id	BIGINT
<fk>userId</fk>	TEXT
name	VARCHAR
description	TEXT

incidents	
< FK >eventId	BIGINT
< FK> userId	TEXT
description	TEXT
isResolved	BOOLEAN

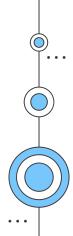


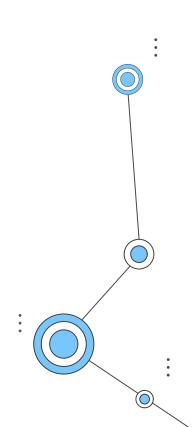


http://nattech.fib.upc.edu:40380/swagger-ui/index.html



05 Demo





Gracias por vuestra atención

Alguna pregunta?

