



DiversityNaviKey

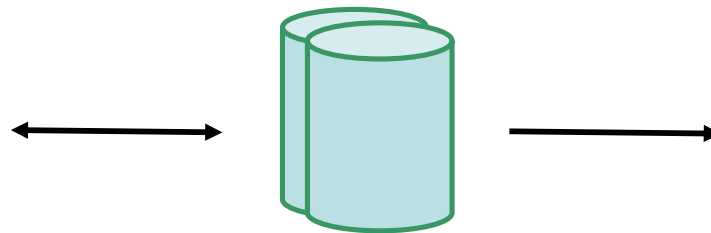
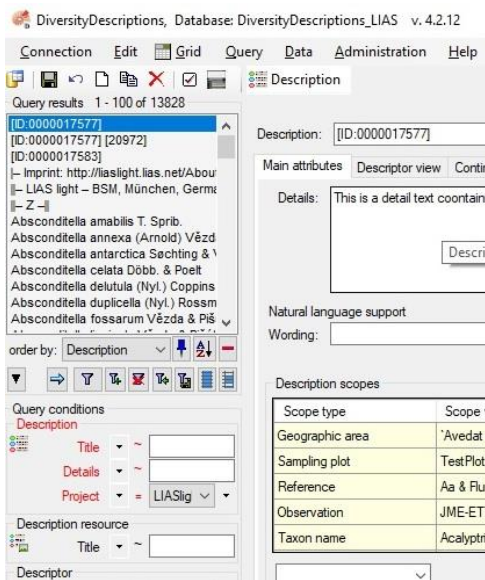
ProgressiveWebApp

26/10/2020

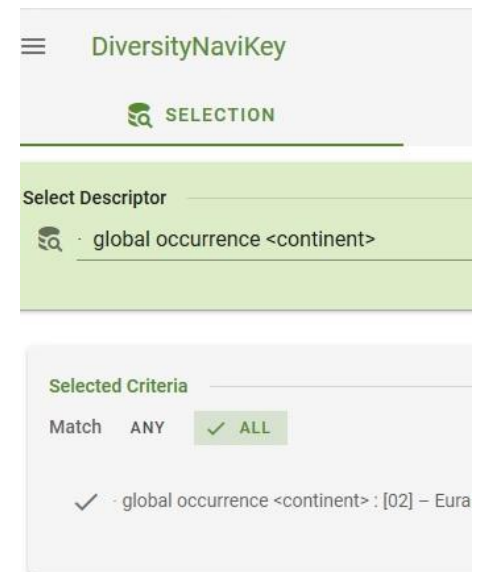
Ariane Grunz

DiversityNaviKey

- Progressive Web App zur Identifikation von Organismen/Datenobjekten/Items anhand von Daten aus der DiversityDescriptions (DD) Software



DD – Daten



DiversityDescriptions (DD)



DiversityNavikey

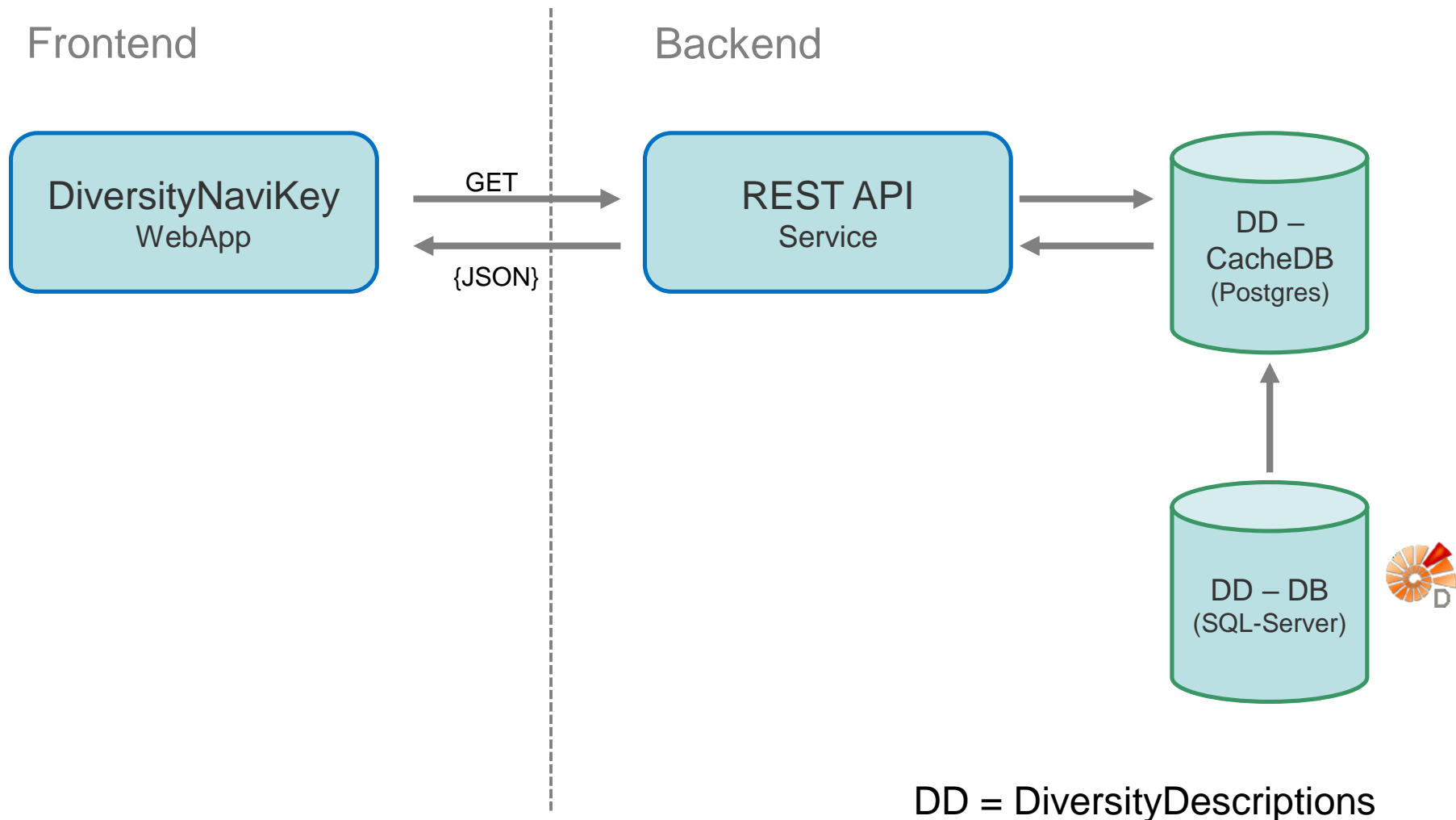
DiversityNaviKey – PWA

- **Progressive Web App (PWA)**
 - Browserbasierte App – Plattformunabhängigkeit
 - Verwendung Standard Webtechnologien
 - HTML5, CSS3, JavaScript
 - Responsive UI für Mobile, Tablet, Desktop
 - Offline – Verfügbarkeit: Service Worker, IndexedDB
 - Sicherheit: HTTPS
 - Installierbarkeit ohne App Store

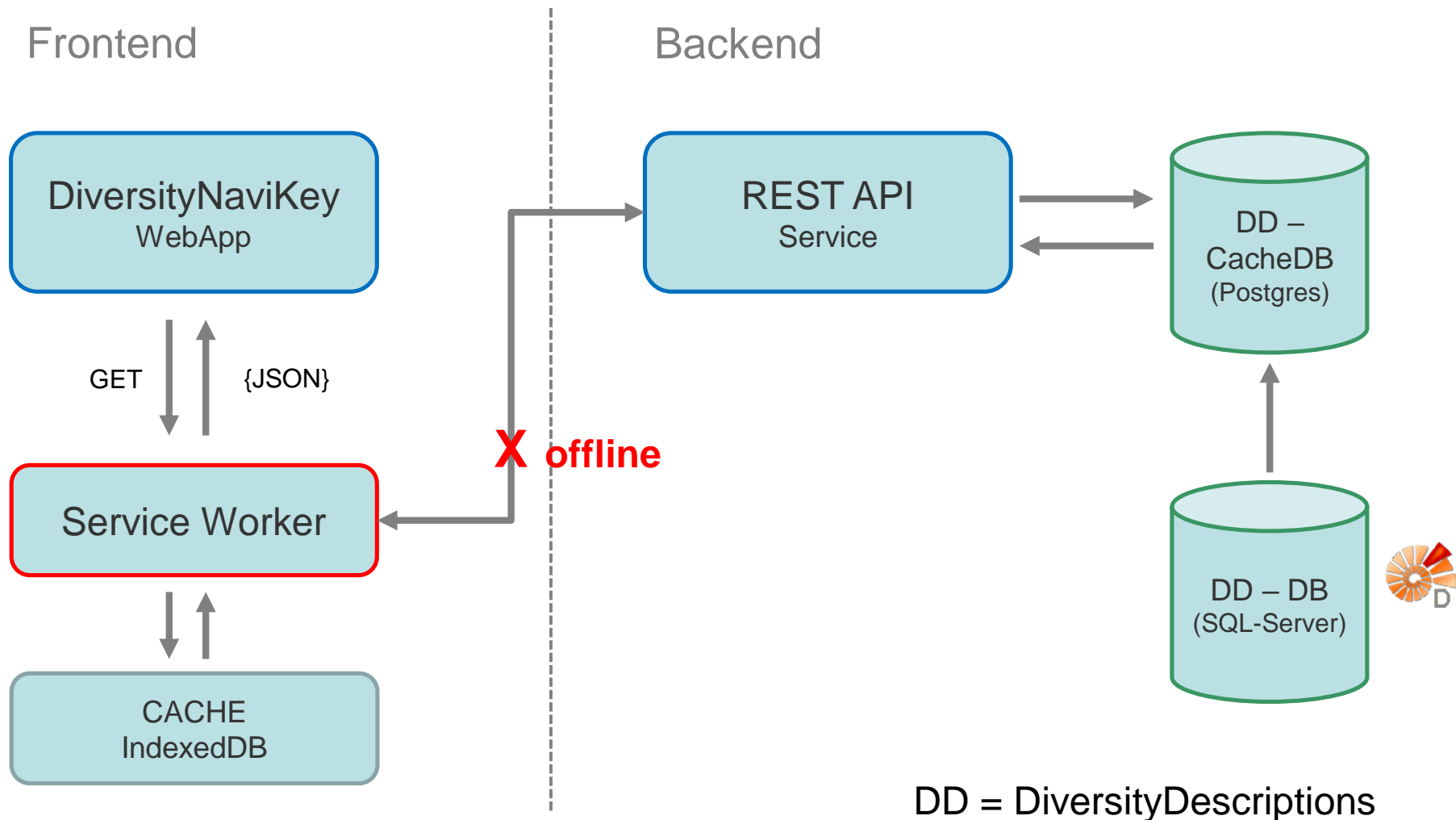
Webframework – VUE.JS

- JavaScript – Webframework für Single Page Webanwendungen (SPA)
- Schlankes Grundgerüst *Vue Core* + Erweiterungen (vuetify, vue-router, vuex)

DiversityNaviKey – Datenaustausch






DiversityNaviKey – Datenaustausch




DiversityNaviKey – Start

☰ DiversityNaviKey

 SELECTION  MATCHES: 0  DETAILS

Select Descriptor

 Start typing to search

DiversityNaviKey – Select Descriptor

The screenshot shows the 'DiversityNaviKey' application interface. At the top, there is a navigation bar with a hamburger menu icon, the title 'DiversityNaviKey', and three main sections: 'SELECTION' (with a magnifying glass icon), 'MATCHES: 0' (with a gear icon), and 'DETAILS' (with an information icon). Below this, a 'Select Descriptor' dialog box is open. The dialog has a search input field containing 'tax' and a close button (X). Below the search field, a list of taxonomic levels is displayed: 'taxonomic rank <level>', 'genus <taxon>', 'family <taxon>', and 'order <taxon>'. The 'taxonomic rank <level>' option is currently selected and highlighted.

DiversityNaviKey – Select State

✓ ◦ genus <taxon> : Absconditella ✕




◦ **genus <taxon>**

Select descriptor state
Absconditella | ▲


- Abrothallus
- Absconditella
- Acanthonitschkea
- Acanthothecis
- Acanthotrema
- Acarospora


DiversityNaviKey – Verknüpfung UND

☰ DiversityNaviKey

 SELECTION  MATCHES: 1  DETAILS

Select Descriptor

 [asp] length ✕ ▾




Selected Criteria  DELETE ALL

Match ANY ALL


- genus <taxon> : Absconditella ✕
- [asp] length : Mean (= average) - between 12 and 20 ✕


DiversityNaviKey – Verknüpfung ODER

☰ DiversityNaviKey



 SELECTION  MATCHES: 284  DETAILS

Select Descriptor

 ✕ ▾




Selected Criteria  DELETE ALL

Match ANY ALL

- genus <taxon> : Absconditella 
- [asp] length : Mean (= average) - between 12 and 20 

DiversityNaviKey – Suchergebnis

☰ DiversityNaviKey

 SELECTION  MATCHES: 284  DETAILS

[<](#) [1](#) [2](#) [3](#) ... [55](#) [56](#) [57](#) [>](#)

- [Absconditella celata Döbb. & Poelt >](#)
- [Absconditella delutula \(Nyl.\) Coppins & Kiliass >](#)
- [Absconditella lignicola Vězda & Pišút >](#)
- [Absconditella pauxilla Vězda & Vivant >](#)
- [Absconditella sphagnorum Vězda & Poelt >](#)

Results per page
5 ▼

DiversityNaviKey – Detailanzeige

☰ DiversityNaviKey

🔍 SELECTION 🌟 MATCHES: 284 ⓘ DETAILS

Absconditella delutula (Nyl.) Coppins & Kilius

Taxonomy

Descriptor	State / Value
taxonomic notes <text>	(internal): 1-septate ascospores are characteristic also for <i>A. sphagnorum</i> Veřzda & Poelt but the two species differ in apothecia size and ecology.
taxonomic rank <level>	species
order <taxon>	Ostropales
◦ family <taxon>	Stictidaceae Fr. (1849)
◦ genus <taxon>	Absconditella

Thallus

Descriptor	State / Value
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DiversityNaviKey – Stand 10/2020

- **User Interface**

- Auswahl: Deskriptoren – Zustand – Paare
 - Einfache Filterfunktion: logische UND / ODER Verknüpfung (ohne Kombinationen)
- Items – Liste aller Matches
- Detailanzeige eines Items (ohne Ressourcen)

DiversityNaviKey – Stand 10/2020

- **Funktionalität**
 - Datenstruktur – Datenaustausch über .json Dateien
 - Offline Fähigkeit (evtl. leicht eingeschränkte Funktionalität aufgrund der Speicherkapazität des Webbrowsers)
 - Schnittstelle zur Erweiterung mit verschiedenen Suchalgorithmen

DiversityNaviKey – Nächste Schritte

- **Frontend**

- Expert Modus
 - Suchkriterien – Filterfunktionen (kombinierte UND / ODER Suche)
- UI Oberfläche – Workflow

- **Backend**

- Schnittstelle REST Service
- REST Service (Python FLASK)
 - Anbindung an die DiversityDescriptions Cache DB