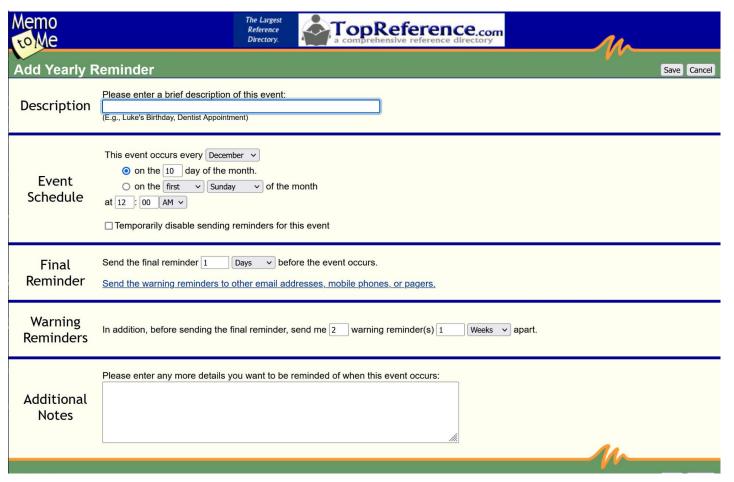
Information Architecture and Web Usability 2024 Group 4

Maria Seiser, Kilian Weisl, and Niklas Lorber 28 Jan 2025

Project Summary

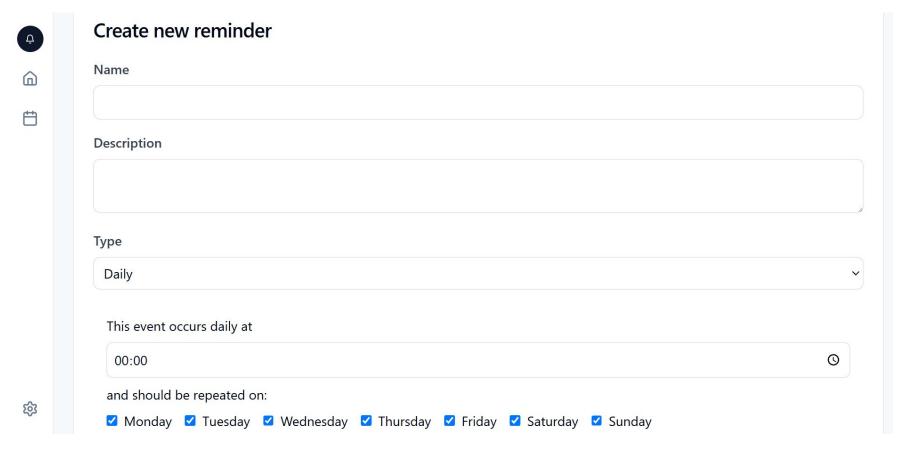
- Created Reminder Service inspired by MemoToMe^[1] and SelfMemo^[2]
- Resolved backend issues by using cron-job.org^[3]
- Demo-URL: https://self-memo2.vercel.app
- Repository of project: https://github.com/selfmemo2/SelfMemo2

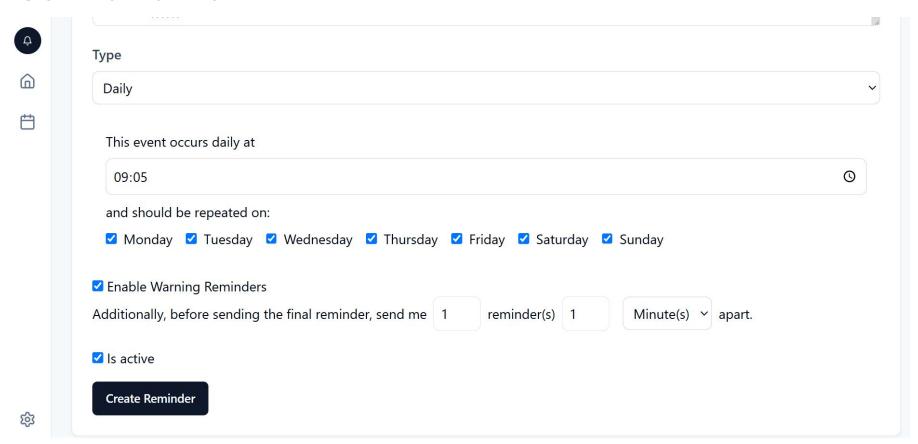
MemoToMe

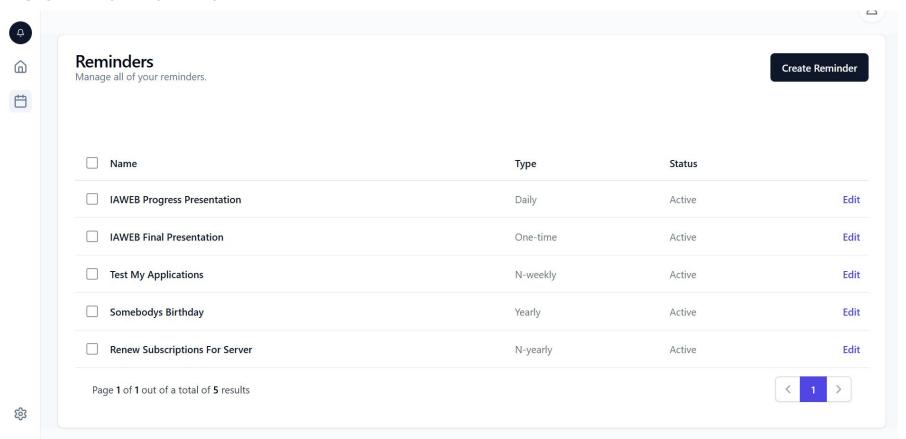


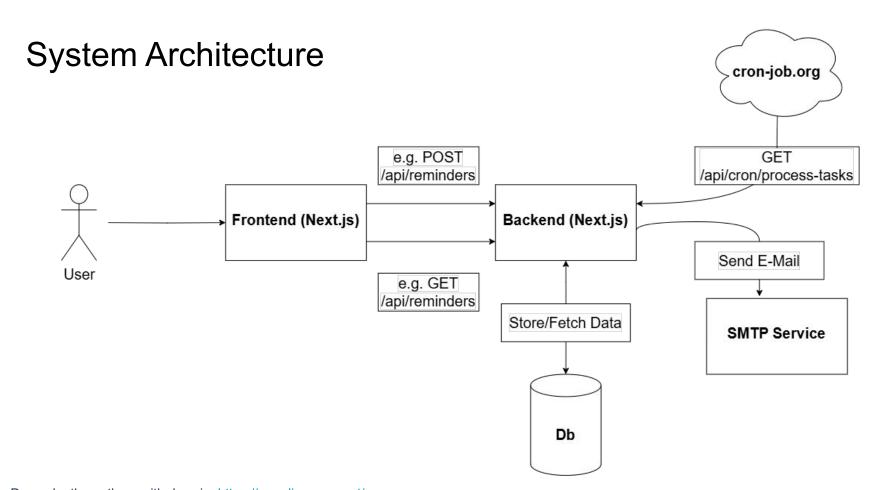
MemoToMe











Full Tech Stack 1

- Frontend + Backend with Next.js^[1]:
 - Simple and modern framework.
 - Based on React.js.
 - Uses TailwindCSS for styling.

- Cronjob Scheduling: cron-job.org^[2]
 - Easy, reliable and free-to-use scheduling of API calls for reminders

Full Tech Stack 2

- Deployment with Vercel^[1]
 - Free hosting provider
 - Serverless API routes
 - Automatic integration of database
- Database Hosting with Neon (Postgres)^[2]
 - 190 computation hours
 - o 10 Projects
 - 500 MB of Storage

Features of SelfMemo2

- Admins can create and manage users.
- User can create and manage reminder.
- Available Reminder-Types:
 - o One-Time
 - Daily
 - Weekly
 - Every Few Weeks
 - Monthly
 - Yearly

Live Demo

https://self-memo2.vercel.app

https://youtu.be/_f-c79lkzfo

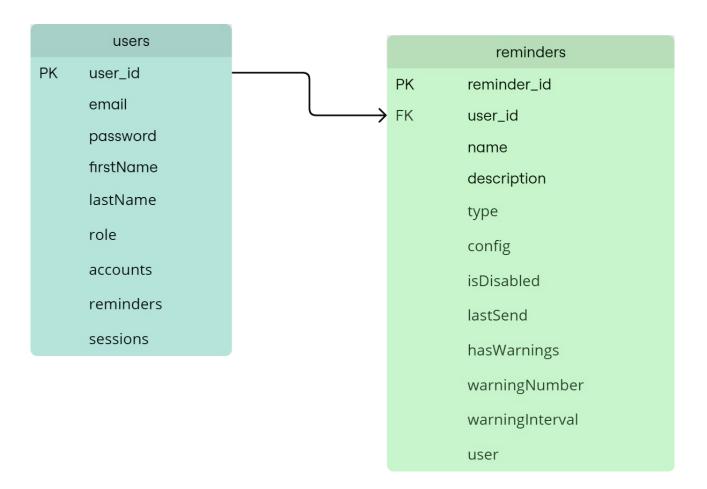
New Features since SelfMemo v1

- Backend issue solved with cron-job.org.
- Multiple admins can be created.
- Warning Reminders are enabled
- Editable template for email notifications.
- Page for reminder statistics.
- Disabling reminders.

Prerequisites for Vercel-Deployment

- GitHub Account for accessing source code.
- Vercel Account for deploying globally.
- SMTP Account to send emails.
- cronjob.org Account to wake-up backend.
- Neon Account to host database and link to Vercel deployment.

Database Schema



Required Environment Variables

- NEXTAUTH_URL= use domain or http://localhost:3000
- DATABASE_URL= connection string from neon or database connection url
- AUTH_SECRET= generate on https://generate-secret.vercel.app/32
- SMTP_USER= yoursmtpuser
- SMTP_PASS= yoursmtppassword
- SMTP_MAIL= yoursmptmail
- SMTP_HOST: mail.smtp2go.com or preferred smtp provider
- ADMIN_EMAIL= youradmin@mail.ad
- ADMIN_NAME= youradminname
- ADMIN_PASSWORD= youradminpassword

Setup Guide for SelfMemo2 with Vercel

- Fork the repository: https://github.com/selfmemo2/SelfMemo2
- Import git repository into Vercel
- Setup Database on Neon: https://neon.tech/docs/guides/nextjs
- Set required environment variables and deploy
- Send a request to create admin user: GET https://your-vercel-url.com/api/seed
- Setup cronjob pointing to: https://your-vercel-url.com/api/reminders/trigger

Limitations

- No Sqlite databases with hosting on Vercel.^[1]
- Extensive setup required.

Future Work

- Import and export for reminders (JSON, CSV etc).
- Visualize reminders in calendar.
- Make template for email notifications customizable by each user.

Thank you for your attention! Questions?