

Schedulo: Self-Hosted Meeting Scheduler

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Project Overview

- Self-hosted alternative to existing meeting scheduler tools, such as Doodle.
- Organisers propose slots for meeting.
- Organisers send out meeting URL to participants.
- Participants indicate availability (no end user accounts required).
- One admin account with preset default password.
- Simple admin interface for managing organiser accounts.
- Repository: <https://github.com/IAWeb-2025-G3/Schedulo>

Features for Admin

- Single administrator account with predefined password.
- Create, manage and delete organiser accounts.

Features for Organisers

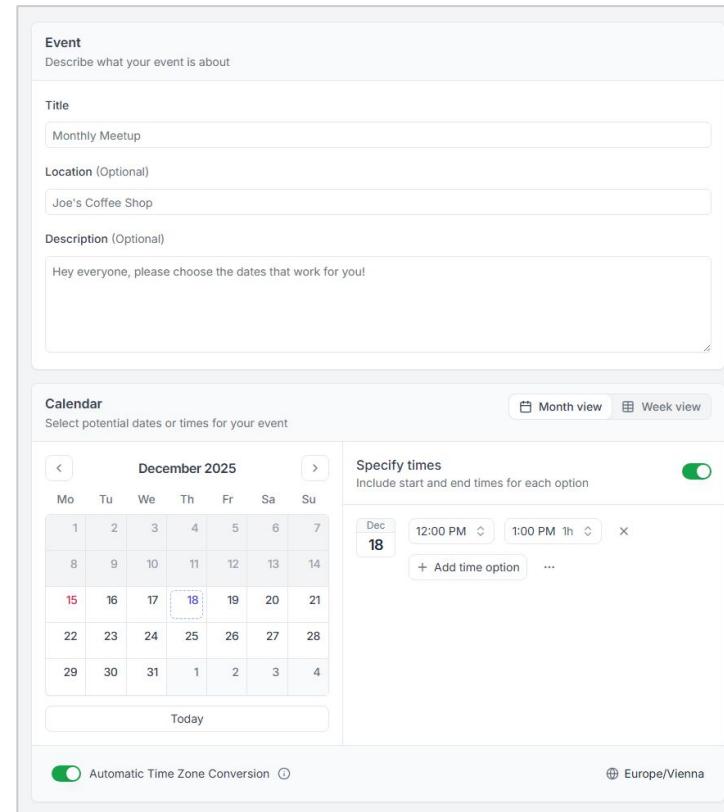
- Create new meeting poll.
- Propose multiple potential dates and time slots.
- Generate unique poll URL to share with participants.
- View real-time availability responses for each poll.
- Launch, pause and close a poll.
- View overview of all created meeting polls.
- Edit or delete meeting polls.
- Manage own account password.

Features for Participants

- Access meeting poll directly via shared link.
- No individual account registration required.
- Indicate availability for proposed time slots using:
 - [✓] Yes.
 - [✗] No.
 - [?] If Need Be.
- Additional option to add comments.
- Submit poll responses.
- View final meeting date and time after poll closure.

Existing Tools

- Doodle
- Dudle
- When2Meet
- Framadate
- Nextcloud
- Croodle
- Rallly
- ...



The screenshot shows the Rally scheduling poll interface. At the top, there is a form for entering event details:

- Event:** Describe what your event is about
- Title:** Monthly Meetup
- Location (Optional):** Joe's Coffee Shop
- Description (Optional):** Hey everyone, please choose the dates that work for you!

Below the form is a calendar for December 2025, with the 18th selected. The calendar interface includes:

- Calendar:** Select potential dates or times for your event
- Month view:** Dec 18
- Specify times:** Include start and end times for each option (button is on)
- Dec 18:** 12:00 PM - 1:00 PM 1h
- Add time option:** + Add time option

At the bottom of the calendar, there are buttons for **Automatic Time Zone Conversion** and **Europe/Vienna**.

Figure 1: Scheduling poll with Rally.

1 <https://opensource.com/article/22/4/open-source-alternatives-doodle-polls>

Comparison Table

Feature	Doodle ¹	Dudle ²	When2Meet ³	Framadate ⁴	Nextcloud ⁵	Croodle ⁶	Rally ⁷	Schedulo
Self-Hosted	✗	✓	✗	✓	✓	✓	✓	✓
No Participant Accounts	✓	✓	✓	✓	✗	✓	✓	✓
Privacy-Friendly	✗	✓	✓	✓	✓	✓	✓	✓
Modern UI	✓	✗	✗	✓	✓	✗	✓	✓
Admin User Management	✓	✗	✗	✗	✓	✗	✗	✓

1 <https://doodle.com/>

2 <https://dud-poll.inf.tu-dresden.de/>

3 <https://when2meet.com/>

4 <https://polaris.org/>

5 <https://apps.nextcloud.com/apps/polls>

6 <https://github.com/jelhan/croodle>

7 <https://rally.co/>

System Architecture

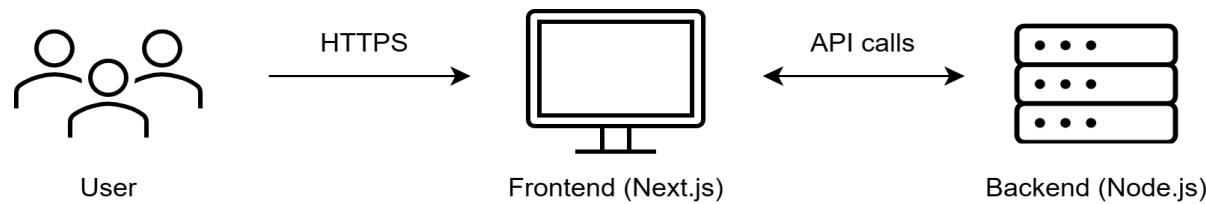


Figure 2: Graphical illustration of system architecture setup.

Technology Stack (Part 1)

- Frontend with Next.js¹ framework:
 - React² for building interactive user interface.
 - Mantine³ for reusable UI components.
 - TailwindCSS⁴ for layout and visual styling.
- Backend with Node.js⁵ for server-side logic.

1 <https://nextjs.org/>

2 <https://react.dev/>

3 <https://mantine.dev/>

4 <https://tailwindcss.com/>

5 <https://nodejs.org/>

Technology Stack (Part 2)

- Data Storage:
 - Local filesystem with Docker Volume¹.
 - Persistent storage of polls and accounts.
- Deployment:
 - Automated process with Docker Compose².
 - Running and managing application containers.

¹ <https://docs.docker.com/engine/storage/volumes/>

² <https://docs.docker.com/compose/>

Alternative Deployment

- Cloud Storage using AWS with S3 Bucket:
 - Scalable object storage in the cloud.
 - Always available and long-term data persistence.
 - Pay-per-use pricing model.
 - Automatic backups and file versioning.
- Cloud Provider with Container Hosting Support (Kubernetes):
 - Container-based application management.
 - Persistent volumes for data storage.
 - Built-in monitoring and automatic scaling.

Schedulo: User Interface (Part 1)

Organizers

Manage organizers who can create and manage polls

+ Add Organizer

Username	Created	Actions
Organizer 2	01/26/2026	
Organizer 1	01/20/2026	

Create Poll

Set up a new poll with custom time slots and details

Event

Describe what your event is about

Title *

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Location

Infeldgasse 16b

Description

Project Progression Presentation

Calendar

Select potential dates or times for your event

< January 2026 >

Mo Tu We Th Fr Sa Su

29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Jan	10:00	-	11:00	
07	11:00	-	12:00	

Jan	12:00	-	13:30		
14					

Submit

Figure 3: Screenshot of the admin view.

Figure 4: Screenshot of the organiser view to create new poll.

Schedulo: User Interface (Part 2)

[← Results](#)

[Close Poll](#) [Share](#) [⋮](#)

Title
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1 VOTER 3 TIME SLOTS

Best Time Slot
Based on voting results

Date & Time
01/07/2026
10:00 – 11:00

Voting Breakdown
 1 YES ? IF NEED BE
1 vote total

Time Slots Summary

Time Slot	Yes	If Need Be	No
01/07/2026 10:00 – 11:00	1	0	0
01/07/2026 11:00 – 12:00	0	1	0
01/14/2026 12:00 – 13:30	0	0	1

Votes Matrix

Time Slot	User 1
01/07/2026 10:00 – 11:00	YES
01/07/2026 11:00 – 12:00	? IF NEED BE
01/14/2026 12:00 – 13:30	NO

Figure 5: Screenshot of the organiser view to display voting results.

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No location provided
No description provided

Name *
User 1

Comment
I'm looking forward to the meeting.

Calendar
Vote for available timeslots for this event

January 2026

Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

10:00 - 11:00 11:00 - 12:00 ? 12:00 - 13:30

11:00 - 12:00 12:00 - 13:30 ? 13:30 - 14:00

Jan 07 Jan 14

[Submit](#)

Figure 6: Screenshot of the participant view.

Schedulo: Showcase

Schedulo

Event
Describe what your event is about

Title *

Location

Description

Calendar
Select potential dates or times for your event

January 2026

Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

 **Submit**

Demo Video: <https://youtu.be/HxVkeMzwYMg>

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