

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.
 - [X] 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
- Rally
- ...

The image shows the Rally scheduling poll interface. It is divided into two main sections: 'Event' and 'Calendar'.

Event Section:

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

Calendar Section:

- Calendar View:** A calendar for December 2025. The date 18 is highlighted with a dashed blue border, indicating it is the selected date.
- Specify times:** A section on the right where users can specify start and end times for each option. It includes a toggle switch for 'Specify times' (currently turned on) and a text input field for 'Include start and end times for each option'. Below this, there are two time slots: '12:00 PM' and '1:00 PM', each with a dropdown arrow and a close button (X). A '+ Add time option' button is also present.
- Automatic Time Zone Conversion:** A toggle switch at the bottom left, currently turned on.
- Location:** Europe/Vienna

Figure 1: Scheduling poll with Rally.

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://pollaris.org/>

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

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

7 <https://rally.co/>

System Architecture

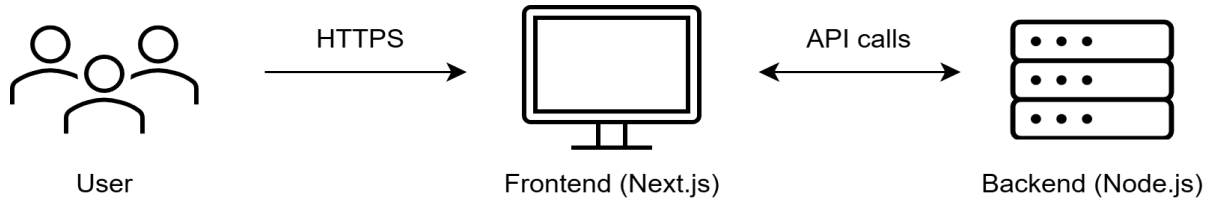


Figure 2: Graphical illustration of system architecture setup.

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	✎ 🗑

Figure 3: Screenshot of the admin view.

Create Poll

Set up a new poll with custom time slots and details

Event

Describe what your event is about

Title *

IAWEB Project Presentation

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 07

10:00 - 11:00 ✕

11:00 - 12:00 ✕

+ Add Time

Jan 14

12:00 - 13:30 ✕

+ Add Time

Submit

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

Schedulo: User Interface (Part 2)

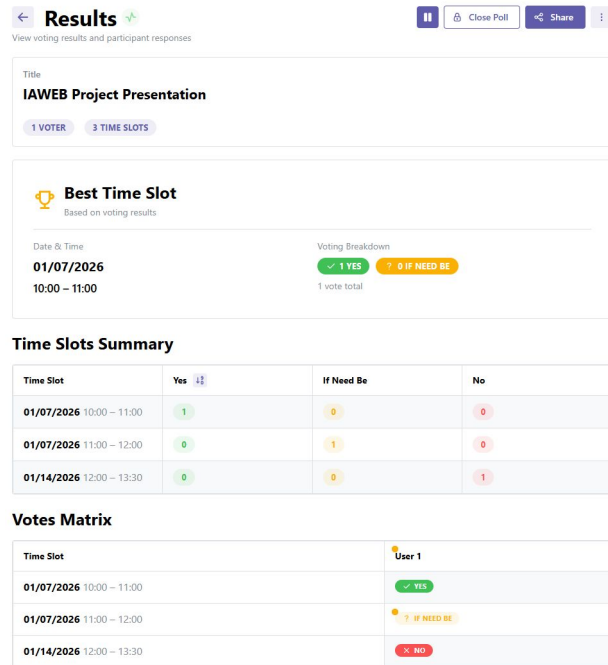


Figure 5: Screenshot of the organiser view to display voting results.

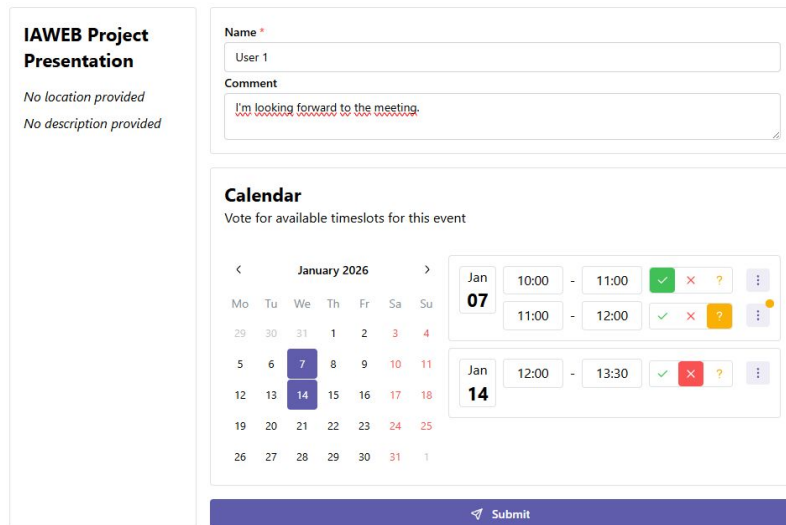



Figure 6: Screenshot of the participant view.

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>