

Taskwarrior: Mobile Task Management App

Introduction

In a digital world filled with to-do lists, managing tasks efficiently and seamlessly across devices has become essential. **Taskwarrior** is a well-known, free, and open-source command-line tool for task management. Building upon its robust CLI foundation, the **Taskwarrior Mobile App** brings this productivity powerhouse to your fingertips—providing a flexible, cross-platform mobile interface.

Developed with **Flutter** and powered by **Dart**, the Taskwarrior mobile app enables users to:

- Manage and organize tasks on-the-go,
- Filter and sync tasks using Taskserver,
- Easily integrate with the existing Taskwarrior ecosystem.

Whether you're a productivity nerd, a developer, or someone managing a busy schedule, this app simplifies task control from anywhere.

Objectives

The main objectives of the Taskwarrior Mobile App are:

1. Provide a clean, responsive mobile interface for interacting with Taskwarrior.
2. Enable task filtering, updating, and synchronization with a self-hosted or cloud Taskserver.
3. Support real-time task management and backup across devices.
4. Ensure easy setup and integration with existing Taskwarrior configurations.
5. Encourage contributions and community-driven development through open-source collaboration.

App Features

1. **Cross-Platform Task Management:** Access and manage your Taskwarrior tasks from your mobile device.
 2. **Sync with Taskserver:** Keep tasks consistent across multiple clients using secure Taskserver integration.
 3. **Command-Line Compatibility:** Mirrors the features of Taskwarrior CLI within a user-friendly mobile UI.
 4. **Task Filtering and Stats:** View stats and apply filters to focus on what matters.
 5. **Secure Certificate Configuration:** Sync safely by configuring personal certificates directly in the app.
 6. **Community-Driven:** Open source, with support for contributions and improvements from developers worldwide.
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Workflow

The user experience of the Taskwarrior Mobile App involves a few key steps:

1. **Installation and Setup:** Clone the GitHub repository, install dependencies, and run the app using Flutter.
 2. **TaskServer Integration:**
 - Choose from multiple TaskServer setup options (self-hosted, Docker, or third-party services like WingTask).
 - Configure necessary certificates within the app.
 - Use `task sync init` to begin syncing your tasks securely.
 3. **Task Management:**
 - Add, update, and manage tasks.
 - View task statistics, filter tasks based on criteria, and review sync status.
 4. **Navigation:** App navigation follows typical Flutter principles, offering a responsive and intuitive user experience.
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Terminologies

1. **Due:** This is the deadline for your task — the date and time by which the task should ideally be completed.
 2. **wait:** A task with a wait date is hidden from your task list until that time arrives. Think of it as "deferred" or "postponed until then."
 3. **until:** This sets an expiration date for a task. After this date, the task is automatically deleted from your task database.
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Firebase Sync Integration

1. Real-time syncing of tasks across multiple platforms.
2. Mobile-friendly access (great if paired with a Flutter UI).
3. Secure cloud storage for tasks, ensuring they're backed up and accessible from anywhere.
4. Faster task updates and collaboration if you're sharing task data with a team.

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Authentication

UsersSign-in methodTemplatesUsageSettingsExtensions

The following authentication features will stop working when Firebase Dynamic Links shuts down on 25 August 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps.

Search by email address, phone number or user UID

Add user

Identifier	Providers	Created	Signed in	User UID
jcofog@gog.com		23 Apr 2025	23 Apr 2025	Exc81RLPeWRrj4mcJw7aKn...
bdhd@ndjd.com		23 Apr 2025	23 Apr 2025	g7ABlUImVNLGS0T62orTjRi...
xed@dv.com		23 Apr 2025	23 Apr 2025	jp3R3nWhTPUFzRv14VbGZA...
txtc@ch.com		23 Apr 2025	23 Apr 2025	zrYDT9PXTFncO0xKFyAVGv8...
vv@gff.com		23 Apr 2025	23 Apr 2025	ygKtdxsiqZocZ2Gi2BqACNvMF...
vkcu@kgo.com		23 Apr 2025	23 Apr 2025	fF3ag9PvT4Y3tFSU6QFXNeZ4...
jvjc@jcgj.com		23 Apr 2025	23 Apr 2025	7diYWINYHYxPtw7EohgAUN...
vvvh@jddj.com		23 Apr 2025	23 Apr 2025	1EE7NxXkzGh6cJNqnPb36C...
chuc@gh.com		23 Apr 2025	23 Apr 2025	HdPWWNVZsNhKjHJueSDMp...
hcuvcjdbdd@fjdbdh.co...		23 Apr 2025	23 Apr 2025	aRDLZOk7ypYpWSzeSjTKye...
jcjchhd@jggi.com		23 Apr 2025	23 Apr 2025	NvkMOpTmHGOFcficzjxeKcX...
jcjchh@jggi.com		23 Apr 2025	23 Apr 2025	Oli7Yve8JeVB70UKi5hXuU47...

Project Overview

Project shortcuts

Authentication

Firestore Database

What's new

App Distribution

Genkit

Vertex AI

Product categories

Build

Run

Analytics

AI

All products

Related development tools

Firestore Studio

Checks

Spark

No cost (\$0/month)

Upgrade

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Cloud Firestore

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishingConfigure App Check

Introducing Firestore Enterprise edition with MongoDB compatibility. Create a Firestore Enterprise database in the Google Cloud console.

Learn moreDismiss

Panel viewQuery builder

Exc81RLPeWRrj4mcJw7aKnwuA82

tasks

b7c61680-206a-11f0-b664-678d0b571e5b

+ Start collection

+ Add document

+ Start collection

tasks

b7c61680-206a-11f0-b664-678d0b571e5b

+ Add field

+ Add field

createdAt: 23 April 2025 at 23:15:00 UTC+5:30

email: "jcofog@gog.com"

name: "n nc"

uid: "Exc81RLPeWRrj4mcJw7aKnwuA82"

+ Add field

createdAt: 24 April 2025 at 07:28:47 UTC+5:30

description: "dcjicggg"

due: null

entry: "2025-04-23T17:45:17.000Z"

priority: "M"

project: null

status: "deleted"

tags: null

uuid: "b7c61680-206a-11f0-b664-678d0b571e5b"

Database location: nam5

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AI

All products

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Spark

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Upgrade

Technologies Used

- **Dart:** Programming language for app logic and Flutter framework.
 - **Flutter:** Cross-platform UI toolkit used for building responsive mobile apps.
 - **Taskserver:** Backend synchronization server used for syncing tasks across devices.
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TaskServer Setup

Taskserver is optional but recommended for users managing tasks across devices. Here's a high-level overview:

Why Use TaskServer?

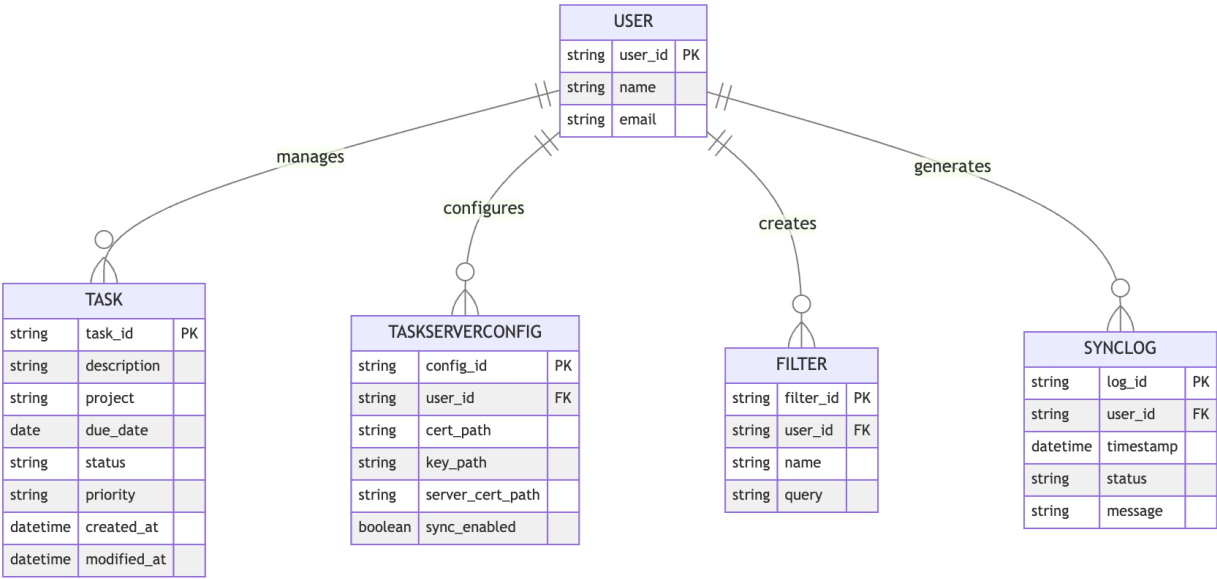
- **Seamless Syncing:** Keep your tasks updated on all clients without manual intervention.
- **Automatic Backups:** Your data stays safe and consistent.
- **Cross-Device Access:** Start a task on one device and finish on another.

Setup Options

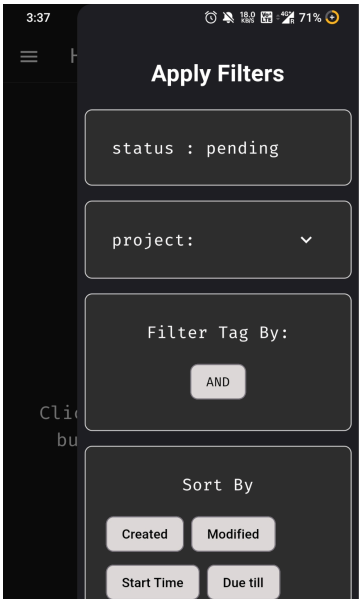
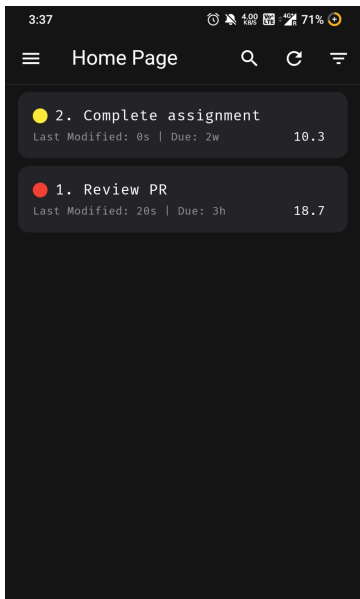
1. **Self-Hosted TaskServer:**
 - Follow the official documentation
 - Host on platforms like Azure or AWS
 - Optional Docker container for quick setup
2. **WingTask Integration:**
 - Sign up and download configuration files
 - Run the provided `install.sh` script
 - Configure `.cert.pem`, `.key.pem`, and server certificates in-app
 - Test setup via the in-app "Stats" button

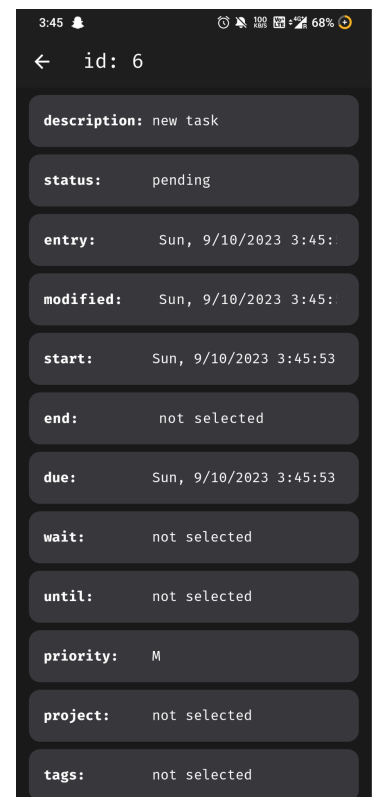
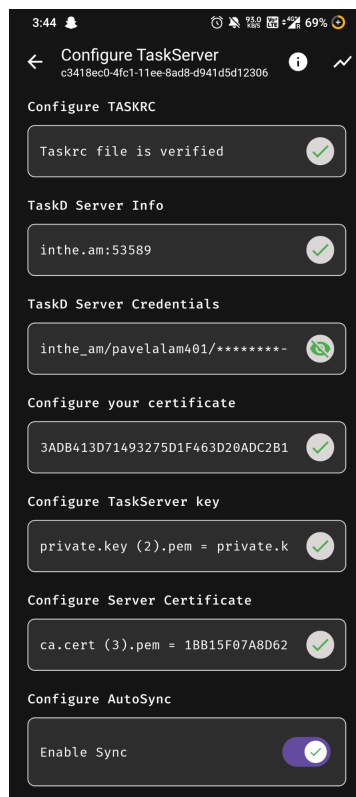
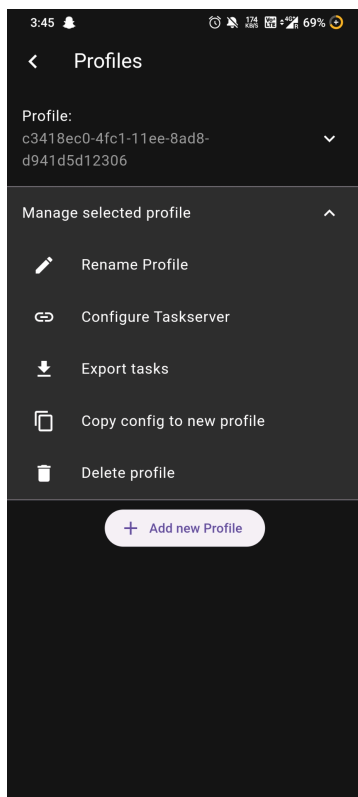
Once configured, users can begin syncing by running `task sync init`.

ER Diagram



Screenshots & Usage





Future Scope and Enhancements

As Taskwarrior Mobile evolves, the following enhancements are being explored:

- **UI/UX Improvements:** More user-friendly and modern design updates.

- **Offline Task Management:** Edit and create tasks offline, sync when online.
 - **Dark Mode and Theme Support:** Improve usability for night-time usage.
 - **Push Notifications:** Reminders for upcoming deadlines or overdue tasks.
 - **Advanced Filtering and Tagging:** Richer task filtering experience.
 - **Cloud Backup Options:** Easy backup to services like Google Drive or Dropbox.
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Conclusion

Taskwarrior Mobile serves as a powerful cross-platform task management assistant, offering a streamlined and intuitive way for users to stay on top of their responsibilities anytime, anywhere. By bringing the flexibility and depth of the Taskwarrior CLI into a modern mobile experience, the app promotes productivity, organization, and efficiency. Its practical applications range from personal task planning and project management to serving as a robust educational tool for open-source, real-time mobile app development. With Flutter's cross-platform capabilities and Taskserver integration, Taskwarrior Mobile delivers a reliable, secure, and scalable solution for task management on the go.