

# Project Sattr: Open Source asset Management Whitepaper

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## Introduction

Project Sattr is an open-source asset management solution designed to cater to the needs of small hospitals, clinics, and small hotels. Its primary objective is to provide an affordable alternative for managing medications, patient information, and appointments without the need for expensive proprietary software solutions.

## Features and Functionalities

Project Sattr offers a comprehensive set of features and functionalities tailored to the needs of healthcare establishments and small hotels:

- **Patient Management:** Easily capture and manage patient information, including personal details, medical history, and contact information.
- **Appointment Scheduling:** Efficiently schedule and manage appointments for patients, including reminders and notifications.
- **Medication Tracking:** Keep track of medication inventory, including quantities, expiration dates, and usage history.
- **Reporting and Printing:** Generate customizable reports and documents for internal use or distribution.
- **Cloud and Local Storage:** Securely store data both locally and in the cloud, with options for collaboration and data synchronization.
- **Customization Options:** Tailor the application to specific needs with customizable categories and fields.

## Technology Stack

Project Sattr leverages modern technologies to deliver a robust and flexible solution:

- **Frontend:** Flutter framework for developing a responsive and cross-platform user interface.
- **Backend and Database:** Utilizes Supabase, an open-source alternative to traditional database and backend solutions, powered by PostgreSQL.
- **Data Security:** Implements encryption for data stored both locally and in the cloud, ensuring the privacy and integrity of sensitive information.

## Data Security

Data security is a top priority for Project Sattr:

- **Encryption:** All sensitive data is encrypted both locally and in the cloud, using industry-standard encryption algorithms.
- **Access Control:** Role-based access control ensures that only authorized users have access to sensitive information.

## Licensing and Development

Project Sattr is released under an open-source license, allowing for free use, modification, and distribution. Development is driven by a community of contributors and is continuously updated with new features and improvements.

## Customization and Future Roadmap

Project Sattr offers extensive customization options to adapt to the unique needs of each healthcare establishment or hotel:

- **Custom Categories:** Define custom categories and fields to capture specific information relevant to your organization.
- **Integration and Extension:** Easily extend the functionality of Project Sattr through plugins and integrations with other systems.

The future roadmap includes plans for additional features such as advanced reporting, integrations with electronic health record systems, and support for multi-location establishments.

## Deployment and Support

Project Sattr provides flexible deployment options to suit the needs of different organizations:

- **Cloud Deployment:** Hosted on Supabase's cloud infrastructure, with scalable storage and compute resources.
- **Self-Hosted Deployment:** Organizations can choose to host Project Sattr on their own servers for greater control and security.

Comprehensive documentation and support resources are available to assist users in deploying, configuring, and using Project Sattr effectively. Support is provided through online forums, documentation, and community contributions.

## Updates and Maintenance

Project Sattr is actively maintained and updated with new features, bug fixes, and security patches. Users are notified of updates within the application, and updates can be applied seamlessly through the built-in update mechanism.

## Scalability and Pricing

Project Sattr offers scalable pricing plans to accommodate organizations of all sizes:

- **Free Tier:** Includes basic features and limited storage capacity, suitable for small clinics and hotels.
- **Paid Plans:** Additional storage capacity and premium features are available for organizations with larger requirements.

Scalability options are available both in terms of storage capacity and user licenses, allowing organizations to scale their usage as their needs grow.

## Case Studies and Use Cases

Project Sattr is currently planned for beta testing with several healthcare establishments and small hotels. Initial feedback has been positive, with users praising the ease of use, flexibility, and affordability of the solution. Case studies and success stories will be published as the product matures and gains wider adoption.

## Conclusion

Project Sattr is poised to revolutionize asset management for small healthcare establishments and hotels, providing an affordable, flexible, and user-friendly solution that empowers organizations to efficiently manage their resources and deliver superior care and services to their clients and patients.

## Additional Resources

For more information about Project Sattr, including documentation, source code, and community forums, please visit our repository at [github.com/SabFaltu/Project-Sattra](https://github.com/SabFaltu/Project-Sattra).