



DAOkit on Gno.land

Building Modular DAOs with Gno



What is a DAO?

A Decentralized Autonomous Organization (DAO) is a self-governing entity operating through smart contracts. It enables decentralized transparent decision-making.

Key Concepts

- **Proposal:** A request to execute an action within the DAO.
- **Resource:** An executable action triggered through proposals.
- **Condition:** Rules that must be met for a proposal to be executed.
- **Role:** Labels assigned to users granting specific permissions.

DAOkit Components

DAOkit

Core package for building DAOs.

basedao

Extension handling membership and roles.

daocond

Condition engine for complex proposal requirements.

Implementing DAOkit

daocond

Defines conditions like thresholds and logical operations.

```
type Condition interface {  
    Eval(votes map[string]Vote) bool  
    Signal(votes map[string]Vote) float64  
    Render() string  
    RenderWithVotes(votes map[string]Vote) string  
}
```




Manages resources and proposals.

```
type Core struct {  
    Resources *ResourcesStore  
    Proposals *ProposalsStore  
}
```



Handles members and roles.

```
type Config struct {  
    Name           string  
    Description    string  
    ImageURI       string  
    Members        *MembersStore  
    InitialCondition daocond.Condition  
}
```



Code Example: Basic DAO

```
var (
    DAO          daokit.DAO
    daoPrivate *basedao.DAOPrivate
)

func init() {
    memberStore := basedao.NewMembersStore(initialRoles, initialMembers)

    condition := daocond.And(
        daocond.MembersThreshold(0.6, memberStore.IsMember, memberStore.MembersCount),
        daocond.RoleCount(1, "finance-officer", memberStore.HasRole),
    )

    DAO, daoPrivate = basedao.New(&basedao.Config{
        Name:          "Demo DAO",
        Description:    "A demo DAO built with DAOkIt",
        Members:        memberStore,
        InitialCondition: condition,
    })
}
```

Creating Custom Resources

Implementing custom actions within your DAO.

layout: two-cols



Define Action

```
type ActionNewPost struct {  
    Title    string  
    Content  string  
}
```



Create Handler

```
func NewPostHandler(blog *Blog) daokit.ActionHandler {  
    return daokit.NewActionHandler("NewPost", func(payload interface{}) {  
        action := payload.(*ActionNewPost)  
        blog.NewPost(action.Title, action.Content)  
    })  
}
```

Use Case: Spending Funds

- **Resource:** SpendMoney
- **Condition:** Requires 50% approval from the administration board and the CFO.
- **Execution:** Proposal is executed only if the condition is met.



Learn More

Explore the full documentation and examples:

- [DAOKit README](#)
- [Gno.land](#)