

# Setting up Routes

---



**Michael Van Sickle**

@vansimke



# Introduction



**Controllers**

**Fixed Routes**

**RESTful Routes**

**Automatic Routing**

**Parametric Routes**

**Annotation-Based Routing**

**Namespaces**

**Reverse Routing**



# Controllers

```
import "github.com/astaxie/beego"
```

```
type MyController struct {  
    beego.Controller  
}
```





## HTTP Request Methods

- Get, Post, Put, Head, Options, Delete

## Session Management

## Access Request Data

## Response Generation

# Fixed Routes

```
//router.go  
func init() {  
    beego.Any("/help", func(ctx *context.Context) {  
        ...  
    })  
}
```



# Fixed Routes

```
//router.go  
func init() {  
    beego.Any(" /help", func(ctx *context.Context) {  
        ...  
    })  
}
```



# Fixed Routes

```
//router.go  
func init() {  
    beego.Any("/help", func(ctx *context.Context) {  
        ...  
    })  
}
```



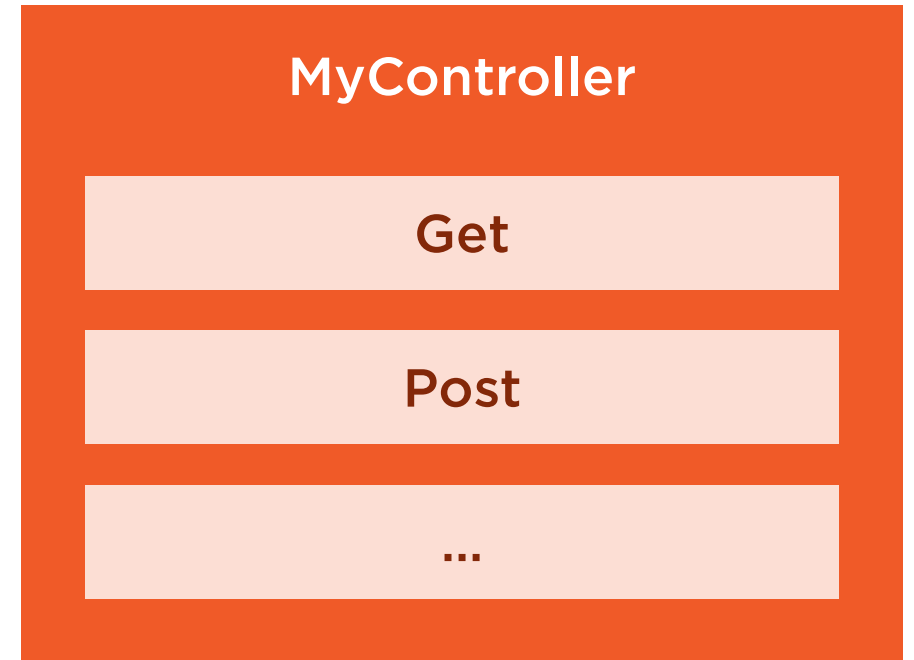
# Fixed Routes

```
//router.go  
func init() {  
    beego.Any("/help", func(ctx *context.Context) {  
        ...  
    })  
}
```





# RESTful Routes



`//router.go`

```
func init() {  
    beego.Router("/foo", &MyController{})  
}
```



# RESTful Routes – Custom Method Names

```
beego.Router("/customers", &Controller{})
```

GET /customers

&Controller.Get



# RESTful Routes – Custom Method Names

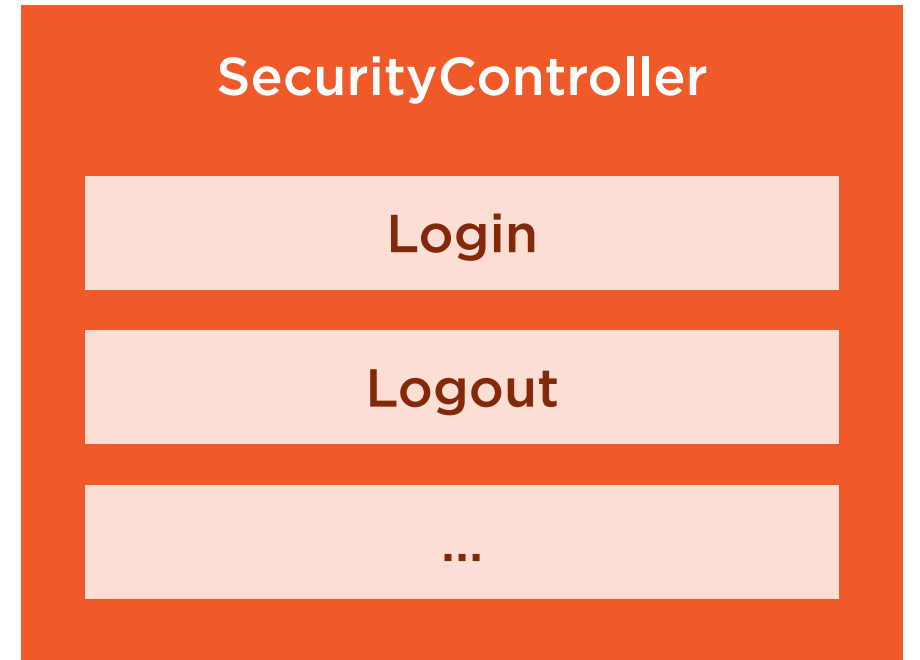
```
beego.Router("/customers", &Controller{}, "get:GetListing")
```

GET /customers

&Controller.GetListing



# Automatic Route Matching



`//router.go`

```
func init() {  
    beego.AutoRouter(&SecurityController{})  
}
```



# Parametric Routing

```
beego.Router("/customers/:id", &Controller{})
```

/customers/foo

**:id = foo**

```
beego.Router("/customers/:id([0-9]+)", &Controller{})
```

/customers/123

**:id = 123**

```
beego.Router("/download/*.*", &Controller{})
```

/download/images/logo.jpg

**:path = "images/logo"**

**:ext = "jpg"**



# Annotation Based Routing

```
func (c *MyController) URLMapping() {  
    c.Mapping("GetRecord", c.GetRecord)  
}
```

```
// @router /customers/:id [get]
```

```
func (c *MyController) GetRecord() {}
```

```
//routes.go
```

```
beego.Include(&Controller{})
```



# Namespaces

/  
/orders  
/orders/:id

/admin  
/admin/customers  
/admin/customers/new  
/admin/accounts  
/admin/accounts/:id  
/admin/users  
/admin/users/new  
/admin/...

/  
/orders  
/orders/:id

/admin  
/admin/customers  
/admin/customers/new  
/admin/accounts  
/admin/accounts/:id  
/admin/users  
/admin/users/new  
/admin/...



# Namespaces

```
ns := beego.NewNamespace("/prefix",
    beego.NSCond(func(ctx *context.Context) bool {},
    beego.NSBefore(...),
    beego.NSGet("/path", func(ctx *context.Context) {},
    beego.NSRouter("/nextpath", &Controller{}),
    beego.NSNamespace("/newprefix", ...)
)
```

```
beego.AddNamespace(ns)
```





# Reverse Routing

```
beego.Router("/api/list/:id([0-9]+)", &Controller{})
```

```
func (c *controller) Foo() {  
    c.UrlFor("Controller.Get", ":id", 123) // /api/list/123  
}
```

```
{{urlfor "Controller.Get" ":id" 123}}
```



# Summary



**Controllers**

**Fixed Routes**

**RESTful Routes**

**Automatic Routing**

**Parametric Routes**

**Annotation-Based Routing**

**Namespaces**

**Reverse Routing**

