

Package bst

```
import "PGL/Client/bst"
```

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Overview ▾

Package bst is the binarytree data structure for the API data to be added to it so the client can retrieve data from the BST instead of constantly querying the API

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```
type BST
func (b *BST) Add(user models.User, cats []models.Category)
func (b *BST) Delete(username string)
func (b *BST) Get(username string) Node
func (b *BST) add(n **Node, user models.User, cats []models.Category)
func (b *BST) delete(n **Node, username string) *Node
func (b *BST) get(n *Node, username string) *Node
type Node
```

Package files

bst.go

type BST

BST

```
type BST struct {
    root *Node
    lock sync.RWMutex
    Count int
}
```

func (*BST) Add

```
func (b *BST) Add(user models.User, cats []models.Category)
```

add wrapper

func (*BST) Delete

```
func (b *BST) Delete(username string)
```

delete wrapper

func (*BST) Get

```
func (b *BST) Get(username string) Node
```

get wrapper

func (*BST) add

```
func (b *BST) add(n **Node, user models.User, cats []models.Category)
```

add with recursive

func (*BST) delete

```
func (b *BST) delete(n **Node, username string) *Node
```

delete with recursive

func (*BST) get

```
func (b *BST) get(n *Node, username string) *Node
```

get with recursive

type Node

Node structure containing the user information

```
type Node struct {  
    User  models.User  
    Cats  []models.Category  
    left  *Node  
    right *Node  
}
```

Build version go1.15.7.

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