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CO600: Standards  
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## JSON Message Standards

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## Anon Users:

**Direction:** Mobile User to Golang Server

**Event:** "joinlobby"

```
data: {  
    nickname: string  
    lobbyid: int}
```

**Server Action:** Should trigger a response emit from the golang server to confirm if successful by checking if the username already is in use within the lobby  
If successful should add the socket to the lobby namespace.

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**Direction:** Mobile User to Golang Server

**Event:** "setready"

```
data: {  
    nickname: string  
    ready: bool}
```

**Server Action:** Set ready bool for AnonUser, and emit updatelobby to all.

**Direction:** Mobile User to Golang Server

**Event:** "leavelobby"

```
data: {none}
```

**Server Action:** Lookup anonuser in map and remove from session, emit updatelobby

---

**Direction:** Mobile User to Golang Server

**Event:** "msgserver"

```
data: {  
    msg: JSON{} //generic JSON data}
```

**Server Action:** Forward onto game server for game processing.

## Host Users:

**Direction:** Desktop User to Golang Server

**Event:** "hostlobby"

data: {  
    hostid: int //User's unique ID}

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**Direction:** Desktop User to Golang Server

**Event:** "start"

data: {none}

**Server Action:** Forward to game server, server should emit a response to all users

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**Direction:** Desktop User to Golang Server

**Event:** "kick"

data: {  
    nickname: string //username of anonuser to be kicked  
    reason: string //optional}

**Server Action:** Update lobby user data structure, emit updated lobby to all, emit kick message to kicked user

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**Direction:** Desktop User to Golang Server

**Event:** "terminate"

data: {none}

**Server Action:** Forward to game server, call lobby end functions, emit response to all?

**Direction:** Desktop User to Golang Server

**Event:** "msgserver"

**data:** {

    msg: interface{} //generic JSON data - JSON Object}

**Server Action:** Forward to game server for game processing

---

# Game Server

**Direction:** Golang Server to Desktop User

**Event:** "lobbyconnected"

```
data: {  
    lobbyid: int  
    feedback: error}
```

**Front-end Action:** Load up lobby and join lobby namespace (lobby id) to listen for new events.

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**Direction:** Golang Server to All Users

**Event:** "gamestart"

```
data: {  
    response: bool  
    feedback: error}
```

**Front-end Action:** Begin loading into the game

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**Direction:** Golang Server to All Users

**Event:** "gameend"

```
data: {  
    response: bool  
    feedback: error}
```

**Front-end Action:** Stop emitting messages to server? (leave lobby )

**Direction:** Golang Server to Single (Desktop OR Mobile) User

**Event:** "msgplayer"

data: {  
    msg: JSON{} //game specific JSON data}

**Front-end Action:** Process game specific JSON data (msg variable)

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**Direction:** Golang Server to All Users

**Event:** "msgall"

data: {  
    msg: JSON{} //game specific JSON data}

**Front-end Action:** Process game specific JSON data (msg variable)

---

**Direction:** Golang Server to All Users

**Event:** "updatelobby"

data: {  
    players: []JSON //Array of JSON objects (users)}

**Front-end Action:** Update the list of players in the lobby and ready status, etc

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**Direction:** Golang Server to Single (Mobile) User

**Event:** "kick"

data: {  
    reason: string //optional}

**Front-end Action:** Display kicked message to user and disconnect them from lobby?

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**Direction:** Golang to Mobile User

**Event:** "joined"

data: {  
    response: bool  
    feedback: error}

# Game Server to GoLang Server

All messages are sent over TCP in JSON encoded bytes in the following format:  
(A JSON object containing a JSON object)

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## TO GOLANG SERVER:

```
{  
    event: "created"  
    msg: string}
```

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## RECEIVED FROM GOLANG:

```
{  
    event: "new"  
    players: int // user count on start  
    maxplayers: int} // max players for session
```

---

## TO A SINGLE USER:

```
{  
    event: "msgplayer"  
    player: int  
    msg: {}(JSON Object)}
```

---

## TO ALL USERS:

```
{  
    event: "msgall"  
    msg: {}(JSON Object)}
```

---

## RECEIVED FROM USERS:

```
{  
    player: int  
    msg: {}(JSON Object)}
```