





api_endpoints.py

```
"group_actions": fields.List(fields.String) //within group_fields
```



```
{  
    "mccheck({0},{1})_agent_3",  
    "mcmove({0},{1})_agent_3",  
    ...  
}
```

model_creator_api.py

From model_creator_actions.py import *all action functions ex. mcmove, mccheck*

```
addAgents(){
    Agent = {attrs={"AllActions": str(group_actions)}, ...} //turn list to string
}

generate_func(agent){
    all_actions = agent.attrs.strip('['').split('') //turn string into list again

    for act in all_actions:
        act_and_params = act.split('_') //get function and parameters
        //run function
        exec(act_and_params[0].format(act_and_params[1], act_and_params[2]))
}
```

model_creator_actions.py

```
def mccheck(agent, range):  
    within_hood = group.subset(in_hood, agent, range, name="hood")  
    print("There are ", len(within_hood), " agents in range.")
```

```
def mcmove(agent, steps,...):  
    agent.move(steps)  
    ...
```

```
...
```