CS421 Project1

There are nine states in my fsa diagram that have the start state, cricket state, soccer state, tennis state, follow up state and five end states. This chat box starts the conversation with a start state and ends at one of the five end states depending on their responses. Every chat starts in the start state and goes until the end state passing through the transition state, if it's not in start or end state then it's in one of the transition states. Every state other than the start or end state has an input and output that will decide in which end state you will finish in.

Examples:

Example 1: Going to soccer then cricket and to end state

Chat bot: Hey, what's your favorite sport?

User: Soccer

Chat bot: Are you sure you want to watch soccer or cricket?

User: Cricket

Chat bot: Do you want to watch live or replay?

User: live

Chat bot: Live game coming to you stay tuned.

Example 2: Going to the end state directly.

Chat bot: Hey, what's your favorite sport?

User: None

Chat bot: Watch some sports to learn new sports.

Example 3: Going to tennis and to end state

Chat bot: Hey, what's your favorite sport?

User: Tennis

Chat bot: Do you want to watch a live game or end?

User: shutoff

Chat bot: Turning off T.V. due to not watching live games.

Favourite Sport Flowchart

START State
output: "Hey what's your favourite sport?"

Branches: **Cricket** · **Soccer** · **None** · **Tennis**

Cricket →

Cricket State
output: "do you want to watch live."

Branches: **live** · **replay**

- **live →** End State — output: "live game coming to you stay tuned."
- **replay →** End State — output: "you are watching replay of old game."

Soccer →

Soccer State
output: "Are you sure you want to watch soccer ah (cricket)."

- **yes →** End State — output: "Soccer is fun & exciting game."

None →

End State
output: "watch some sports to learn new sport."

Tennis →

Tennis State
output: "do you want to watch live game ahead."

- **Cricket**
- **shut off →** End state — output: "turning off the t.v. due to not watching live game."