Assignment 8 State diagram

A library has many books. A book can be added into the library. A book can be removed from the library. A book can be searched from the library. If the book is not found in the library, its state is notAvailable. If the book is found then the state of the book becomes available.

The book has a title, price, bookstatus and member. Member has membered and name.

When the book is added into the library, its state becomes available.

If the present or current state of the book is available, it can be checked out. When it is checked out , the member is attached to the book. The state of the book becomes with the member or checked out or out of the library

If the present or current state of the book is with the member or checked out or out of the library, it can be checked in. In this case, the member attached to the book is removed and its state changes to available.

**Represent this as a state diagram; paste your state diagram here**

**Paste your class diagram here**

**Paste your code here**

**Paste your output here**