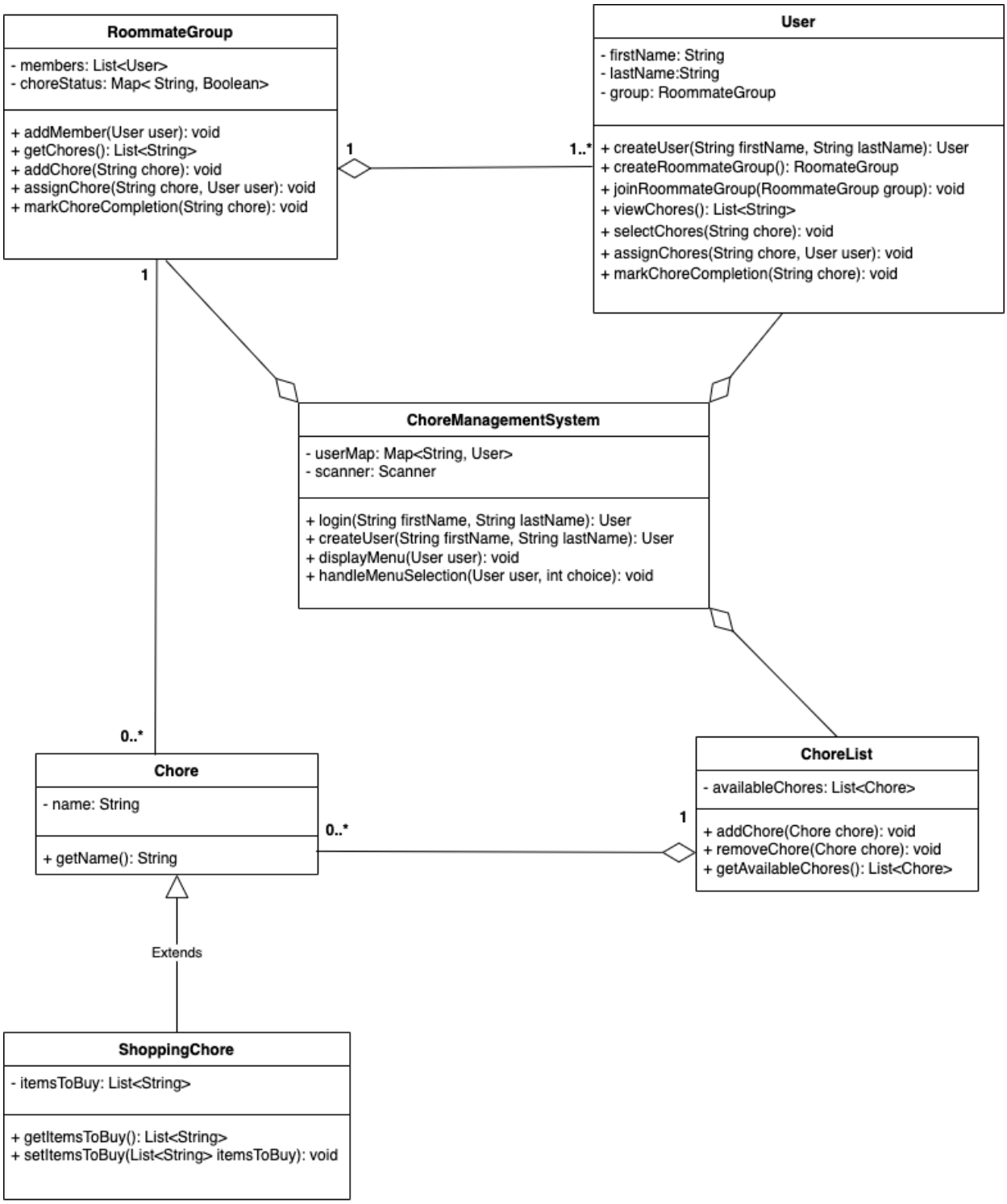
RoomieTaskTracker: Class Diagrams

UML Diagram



Written Descriptions

Classes:

1. **User:** Represents a user of the chore management system
2. **RoommateGroup:** Represents a group of roommates
3. **ChoreManagementSystem:** Contains methods for user authentication, user input, and managing user sessions
4. **ChoreList:** Represents the list of available chores
5. **Chore:** Represents a single chore
6. **ShoppingChore:** Keeps track of shopping chores/groceries

Relationships:

- A User belongs to at most one RoommateGroup
- A RoommateGroup contains one or more Users
- A ShoppingChore is a specialized Chore
- A Chore is a generalized ShoppingChore
- ChoreList contains 0 to many Chores
- Chore is contained in a ChoreList
- ChoreManagementSystem contains User
- User is contained and maintained by ChoreManagementSystem
- ChoreManagementSystem contains ChoreList
- ChoreList is contained and maintained by ChoreManagementSystem
- ChoreManagementSystem contains RoommateGroup
- RoommateGroup is contained and maintained by ChoreManagementSystem
- A RoommateGroup can be assigned 0 to many Chores
- Chores can be assigned to a RoomateGroup