**Iteration 1**

Database searching scenario

1. User selects a Role or Team dropdown menu and selects a criteria option.
2. Search GUI retrieves a list of valid players with the search controller using the search critera

2.1) Search Controller sends the search criteria to the DBMgr

2.2) The DBMgr retrieves a list of all players

2.3) The DBMgr creates an empty list

2.4) For each player,

2.4.1) The DBMgr gives the player object the search criteria to verify if it matches them

2.4.2) If the player matches with the search criteria

2.4.2.1) The DBMgr adds the player to the list

2.5) The DBMgr returns the list of players to the Search Controller

2.6) The Search Controller returns the list of players to the Search GUI

2.7) Checkout GUI displays the list of players that match the criteria

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| --- | --- | --- | --- | --- |
|  | Subject | Action of Subject | Other Data/Objects | Object Acted Upon |
| 1 | Search GUI | selects | criteria | Dropdown menu option |
| 2 | Search Controller | retrieves | List of Players | DBMgr |
| 2.1 | Search Controller | Sends | Criteria | DBMgr |
| 2.2 | DBMgr | Retrieves | List of Players | Player |
| 2.3 | DBMgr | Creates |  | List |
| 2.4 | For each player | | | |
| 2.4.1 | DBMgr | Sends | Criteria | Player |
| 2.4.2 | If player matches with criteria | | | |
| 2.4.2.1 | DBMgr | Adds | Player | List |
| 2.5 | DBMgr | Sends | List of Players | Search Controller |
| 2.6 | Search Controller | Sends | List of Players |  |
| 2.7 | Search GUI | Displays |  | List of Players |