Requirements Definition

Project4

1. **Introduction and Context**

Project4 is a webpage being designed with the objective to allow users to advertise games they’d like to lend. As well as allowing users to request video games from other users. The application will allow for users to search video games based on the number of players the game supports and other criteria. The generalized purpose of the application is to allow friends to avoid the need for repurchasing video games when another friend may already have it to lend. This system will solve this problem by giving them an easy to navigate user interface

The environment for the project will consist primarily as a web application. It will include a user login page, user account page (allowing to manage games they want to share), search features allowing to search for games the user would like to borrow from another. This will have server-side support allowing for users to access the application beyond a localized network; giving users convenient access to their account.

1. **Users and their Goals**

**Types of users**

* General User (See Figure 2)
  + Goals: Allows searching for games posted by other users
* Owner (See Figure 4)
  + Goals: Allow user to post their games online for sharing
* Admin (See Figure 1)
  + Allows control to delete user posted games if needed
* (System) IGDB API connection
  + Allows for fetching game details

1. **Functional Requirements**
   1. User Authentication and Access Controls
      1. 1. The system must require all users to authenticate themselves before giving them access to features of the system.

1.1.1.  On first login, the user must be able to enter the username and password that a system administrator created for that user

1.1.2.  Once the user has successful entered the initial username and password, the system must require the user to change the initial password to something of their own choosing.

1.1.3.  For any subsequent login, the user must be able to enter his/her username and current password. If entered correctly, the system must let the user access authorized features of the system. If entered incorrectly, the system should allow the user to try again or exit.

2. User Profile Management

2.1. The system will allow any authenticated user (one who is logged in) to modify his/her own contact information.

2.2. The system will allow any authenticated user (one who is logged in) to modify his/her own password.

2.3. The system should not allow user who doesn’t have Admin rights to see or modify any other user profile.

3. User Add Items Under Logged in Account

4. Guest/User Browse Inventory

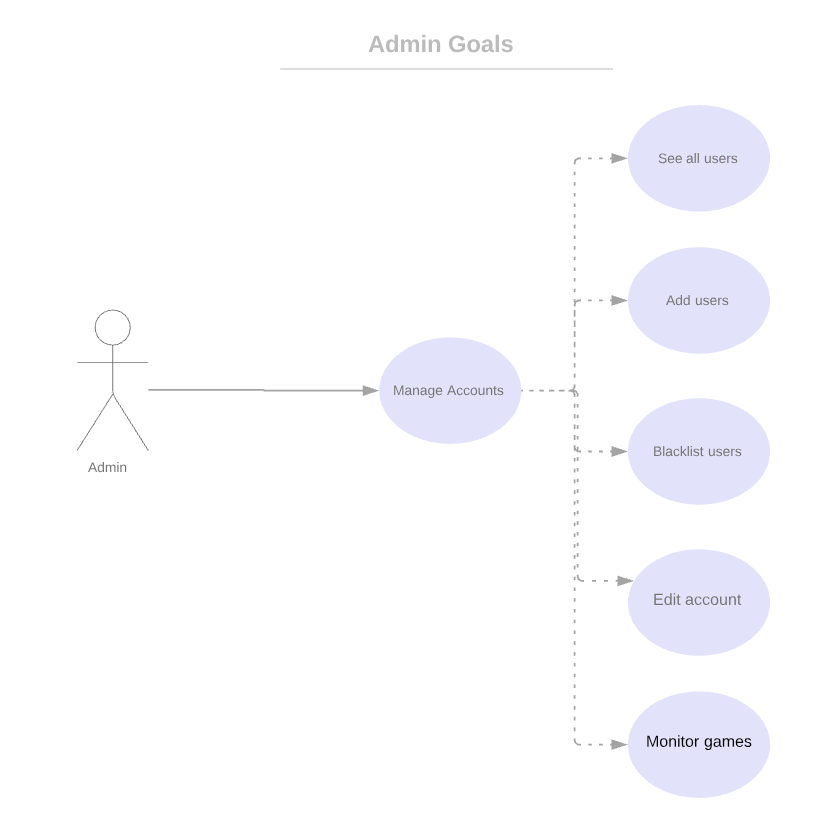
5. User Game Request

1. **Non-functional Requirements**
   1. The program will be developed using an agile method with weekly iteration meetings along with consistent communication throughout
   2. Application-level logic will be tested by each developer including unit tests

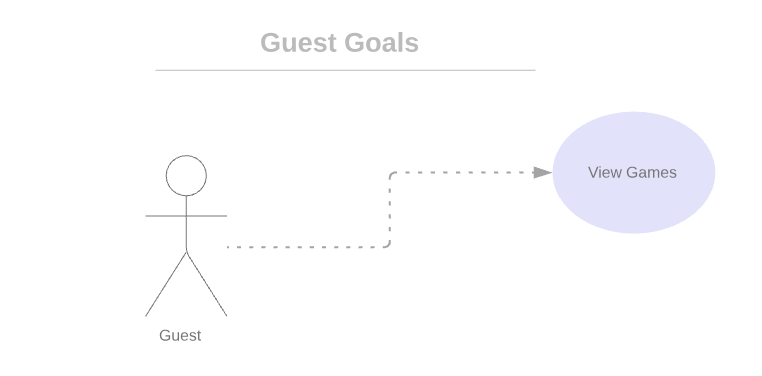
*This section contains requirements that describe and/or constrain the development process. For example, a non-functional requirement may state that development will follow an Agile method with weekly iteration meetings.*

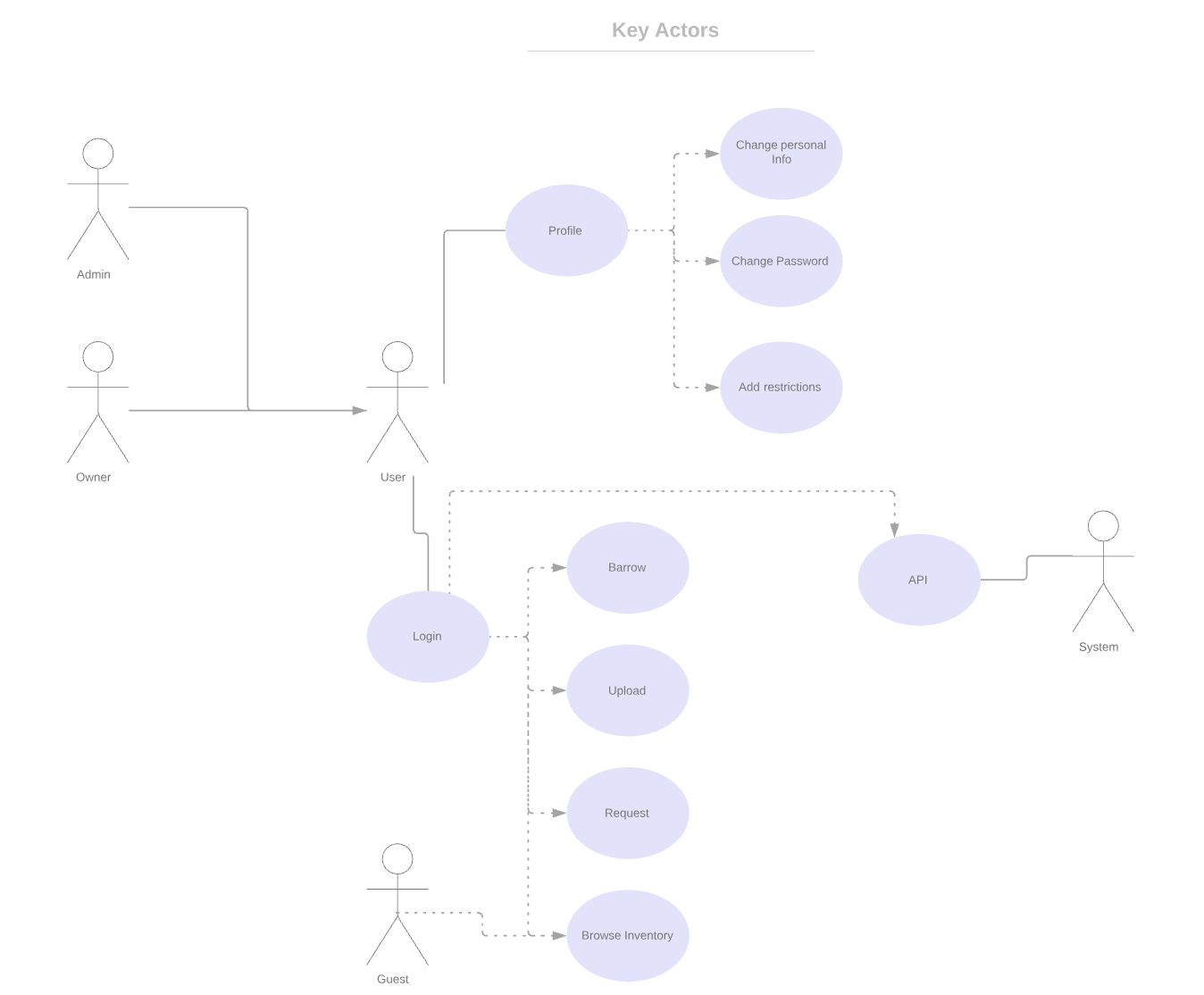
1. **Future Features**
   1. API fetch requests to IGDB to populate game info
   2. Filtering Game searches
   3. Waitlist
   4. Visibility Control
   5. User Reviews
2. **Glossary**
   1. *This section contains a list important terms and their definition*
   2. *IGDB: ‘Internet game database’*
   3. *API: ‘application program interface’*
3. **Figures**

**Figure 1.**



**Figure 2.**



**Figure 3.**  

**Figure 4.**

