Requirements Definition

*Movshare*

1. **Introduction and Context**

Oftentimes, someone will purchase a movie, book, or other media thing only to find that another friend has already purchased it. In cases like these, it can be difficult to coordinate the loan of the media. They may ask to borrow the media, and be informed that someone else has already borrowed it.

This project aims to build an app that helps people manage and keep track of different kinds of media owned by themselves and others. In order to reduce duplicate purchases of movies and other media, this app will allow a group of users to store titles and details relating to their media collection. Each user will them be able to search for titles in each other’s libraries in order to share this media amongst themselves. This would also allow a user to purchase a gift for a friend without worrying about whether that friend already has the gift.

*This is a brief introduction to the purpose system that describes the environment or context of the proposed system, the problem it addresses, and how the proposed system will solve that problem. It should be less than a page. A couple of paragraphs to a ½ of page would sufficient in most cases. For the most part, this description should be very similar to the project over in the project plan*

1. **Users and their Goals**

*This section contains identifies of the users of the proposed system and their goals, illustrated and supported by Use Case diagrams. Here “users” is a board term that could include other software systems.*

1. **Functional Requirements**
2. User Authentication
   1. The system must require all users to authenticate themselves before giving them access to view or take actions on Movshare.
      1. They must be able to create an account with a username and password the first time they access Movshare
      2. They must be able to log in on subsequent visits to Movshare using the same username and password. If they log in successfully, they should gain access to Movshare. If they did it incorrectly, they should be prompted to try again.
3. User Libraries
   1. The system should allow users to add media entries to their User Library.
      1. When an entry is created, users will be required to list a title, media format, and whether the item is available. They should also have the option of list additional information under an ‘additional notes’ category. Entries will also have a ‘scheduled loans’ category.
         1. If the item is unavailable, the user should be prompted (but not required) to enter an estimated availability date.
   2. After entry creation, the system should allow users to edit any element of a media entry.
      1. The system should allow users to edit anything in the entry by using an ‘edit entry’ button.
      2. The system should allow users to quickly change the availability of the entry via a ‘loan entry’ button. This will allow them to change the estimated availability date, and optionally provide the name of the person they are loaning the media to.
4. Search and Request Function
   1. The system should allow users to browse other user’s libraries.
      1. Users should be able to browse libraries by user.
      2. Users should be able to search all libraries by title and media format.
      3. Users should be able to filter search results by availability.
      4. Searches should show all information stored in the media entry in a search.
   2. The system should allow users to ‘request’ a title from another user.
      1. When requesting a title, the requester will be prompted to enter a date range and a message.
      2. The media owner should receive an alert containing the date range and the message entered by the requester.
         1. The media owner should be able to accept or deny the request.
            1. If the request is accepted, the system should add the date range to the ‘scheduled loans’ category of the requested media.
            2. The system should send an alert to the requester informing them whether the owner refused or denied their request.
5. What else?

*This section contains requirements or constraints on the functioning of the proposed system, written in way that doesn’t pre-suppose “how” the system will accomplish those requirements. The requirements should be organized in hierarchy of increasing specificity and presented in outline form so they are easy to reference. Each requirement must stand on its own because it could be referenced or quoted in other documents without the benefit contextual information. Where appropriate, the requirements could include statements about of the rationale (motivation) and/or priority (importance to the client.)*

1. **Non-functional Requirements**

*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**

*This section contains a list of ideas or features that are beyond the scope of the project*

1. **Glossary**

*This section contains a list important terms and their definition*