Features and Defects

<u>Features</u>

- <u>Design</u>
  a. Users can rent a movie. After signing in, they are presented a table of new releases to rent from. If they would like to rent movies not present, they can use the search button located at the bottom of the screen.
  b. Users can search on the following categories:
     i. Genre
     ii. Title / Keyword
     iii. Actor
     iv. Release Year
     v. Rating (R, PG-13 . . .)
  c. Users can return movies currently rented and are charged a late fee if they return them past the due date. Movies cannot be returned until the user pays the late fee. Users can only rent one copy of a movie.
  d. Users can change their account information, such as their phone number, credit card, and password.
  e. Admin users can look up a movie by title and learn the total number of copies, the number of copies rented, and the number of copies available. For the movies rented, a table is displayed with the renters who rented them and the rent/due date for the movie. From here the admin can add more copies of the movie to the unit if they deem it they need to stock more or remove all copies from the unit if they decide the movie is no longer desired for rental.
  f. Admin users can also look up renters by phone number and learn the renters name and a table shows the movies they currently are renting. The table contains information such as movies title, rent / due date, and late inforamtion
  g. Admins can add new movies, with all categories available to add on and adding new actors to add on.
  h. When adding movie dates, the program takes into account leap years and prevents adding future dates.
  i. Searching by exact title or keyword is not case sensitive.

- <u>Project</u>
  a. Easy to use GUI
  b. GUI's use the Windows "look and feel" so they look more attractive

    c. New GUI's are displayed in the center of any monitor regardless of resolution. (instead of being displayed in the top left corner)

    d. JDialog boxes to display errors and notifications to prevent input of incorrect data

    e. Database is a MySQL server

Defects

- There are no transactions in our database to prevent the collisions of queries, but our system is based on the person physically being there at a single unit to query for data, so in reality there would be not be multiple users on the system at once, unless the database being queried covered all units, which it does not.