Q1. Flow diagram

See Figure [1]

Q2. List of documents and document forms

- D1 Registration form
  - login_name
  - email
  - passwd
- D2 Login form
  - login_name
  - passwd
- D3 Profile page
  - login_name
  - email
Figure 1: The flow diagram for this assignment is not unique. This is just one possible solution.

- mtitle (from Likes info)

- D4 Recommend form
  - login_name
  - List of:
  - mtitle

- D5 Report page
  - Omitted from solutions

- D6 Users data
  - login_name
  - email
  - passwd

- D7 Likes info
  - login_name
Q3. E-R diagram

See Figure 2.

Q4. Attributes

users(login_name, email, passwd)
movies( mtitle )

Q5. Remaining tasks omitted from solutions

Q6. Testing

To automate part of the grading, we will use SQL scripts to test your database. We provide a sample test script which checks if your schema matches our scripts. Please make sure the following runs on your database and make the necessary changes to your schema (you could have more attributes and tables, however, make sure the basic schema is the same as ours):

http://www.cs.cmu.edu/~christos/courses/dbms.S13/hws/HW7/test_01.sql

Please see the README_test_01 file for instructions on how to run this script and what the expected output is:

http://www.cs.cmu.edu/~christos/courses/dbms.S13/hws/HW7/README_test_01