

Problem Set 4 – Documentation

Simple structure

These are our plans for developing an online website to view past questions of AIT.

Content

Potential content available from the site:

- Questions of every subject for every department of each of the three fields (SET,SOM and SERD)
- Solutions to each of those questions.
- Facebook integration: After any question or solution is posted, if the admin approves, then it will posted to the related Facebook group. For example if someone from Computer Science post a WAE question paper of 2012, then it will be posted to CISM Facebook group. We plan to do this using a Facebook app.

User Types

There are three types of users as we explained in PS3. They are:

- Public Visitor(without login)
- Users
- Administrators

User to Content Map

Public Visitor (without login):- They can only view the questions/solution and also download if necessary. But they can't post anything.

Users: - Users can post (after admin approval) and as well view questions/solution. They can only edit delete their own post.

Administrators: - They can do anything on the system. Can accept or reject any postings.

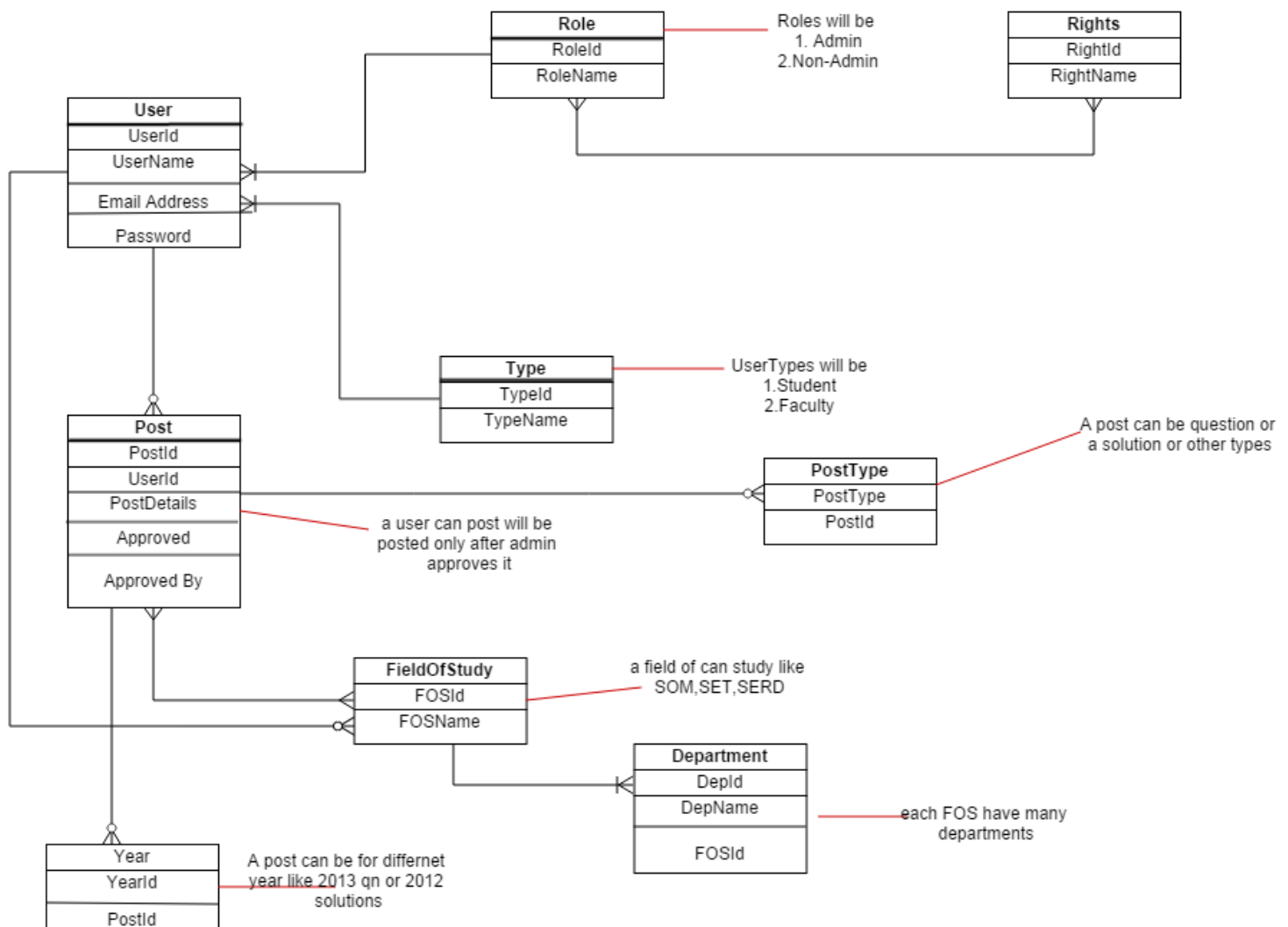
Technology

For our website will use the Ruby on Rails as the programming framework Ajax as the scripting language and PostgreSQL as the backend.

The basic information processing requirements:

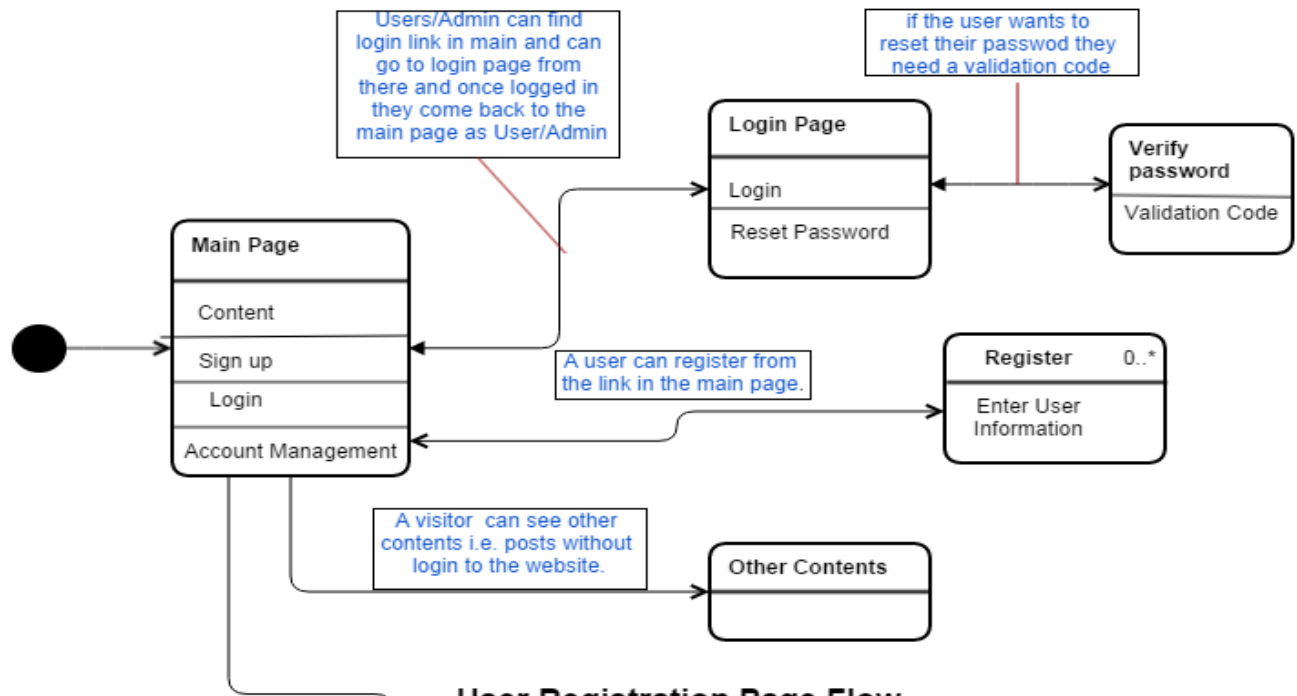
- User database, storing names, email addresses, and URLs of community participants, with their preferences (privacy options and so forth).
- Content database, storing the questions and solutions with version information, Field type, links, access controls, admission control status, timing, indexing, and so on.
- The user/content map contains information about student, and the questions and solutions they have posted.

User Date Model

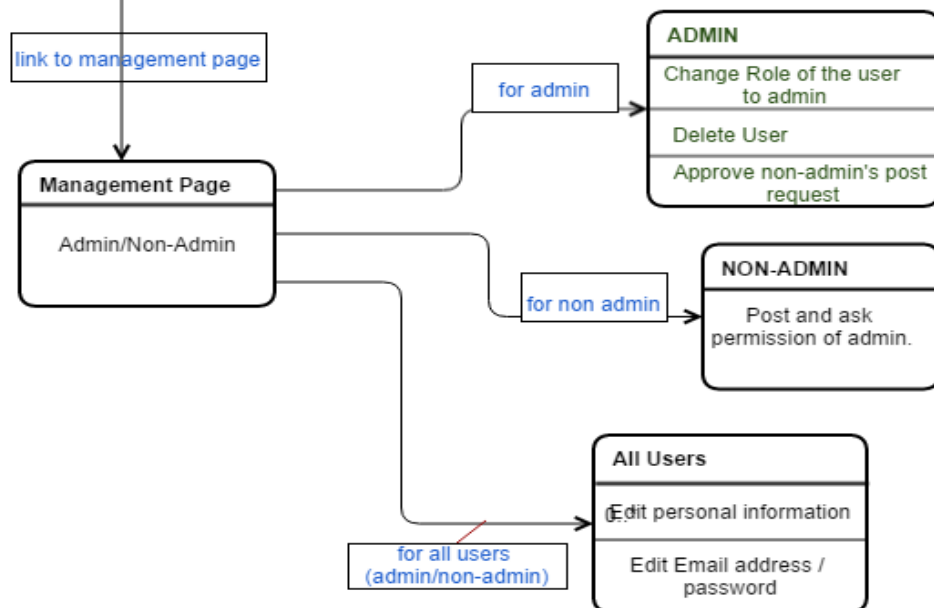


User Data Model

User Registration and Management Page Flow



User Registration Page Flow



Management Page Flow