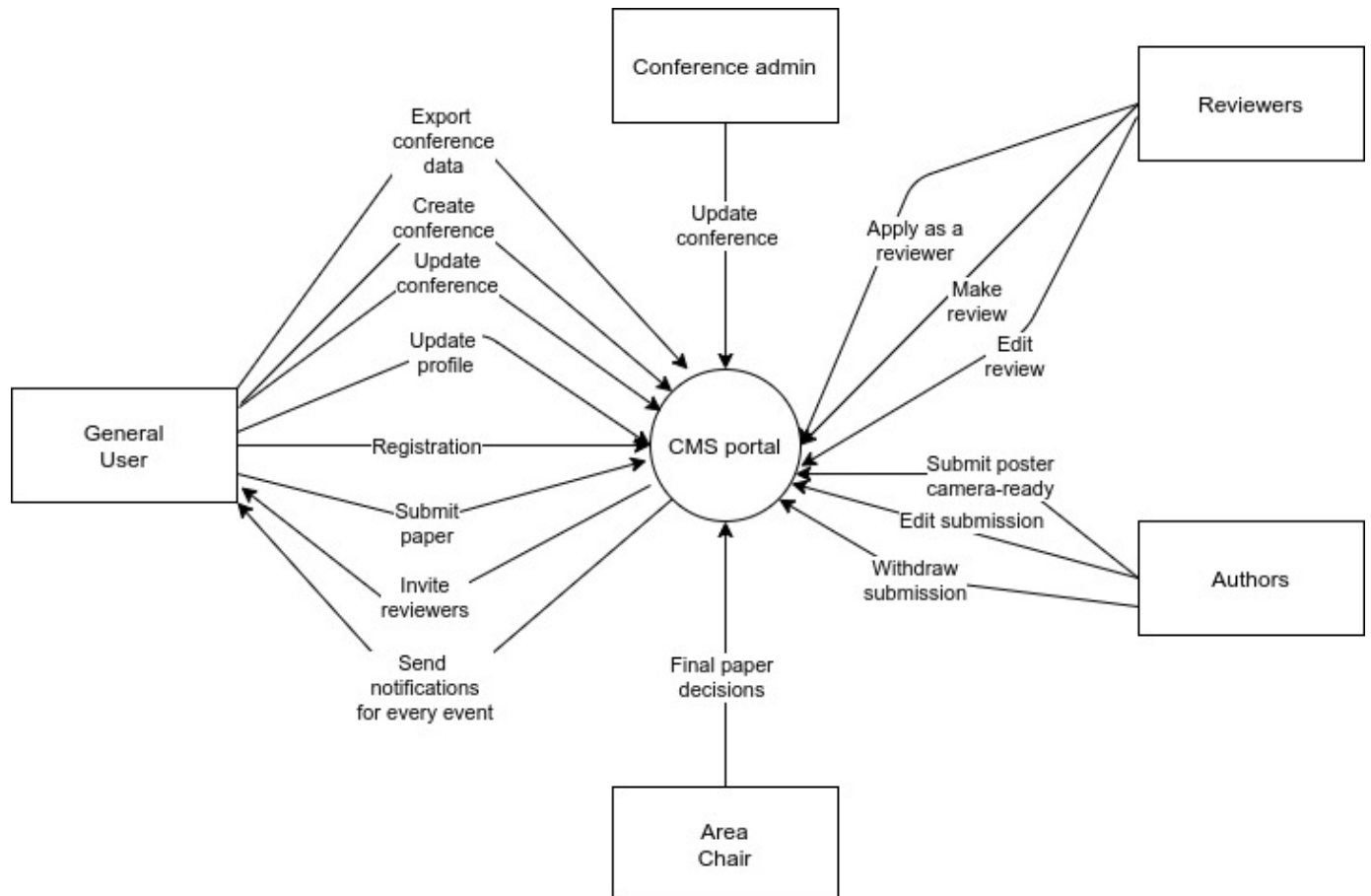# Software Requirement Analysis Document for Conference Management System (CMS)
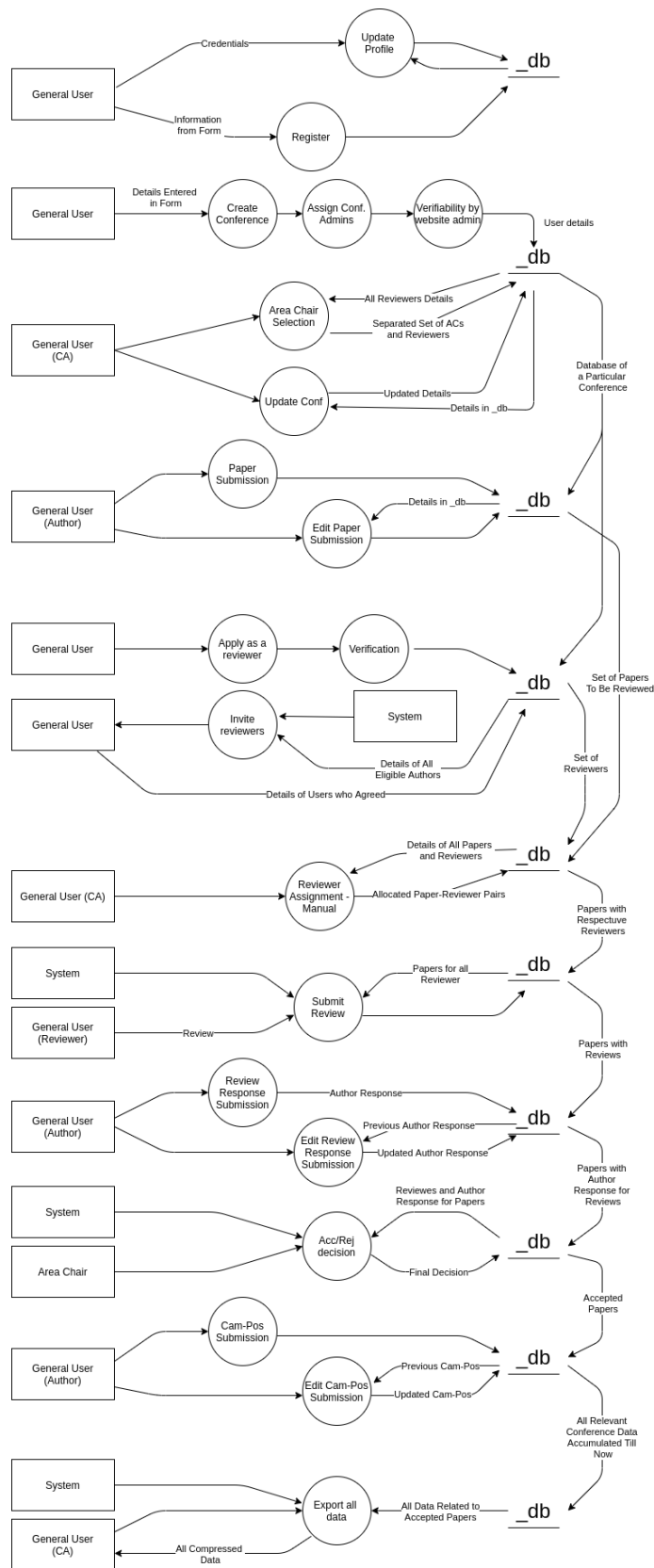
Group Number - 6

Group Members:

Ajinkya Bokade, CS17BTECH11001
Yash Khasbage, CS17BTECH11044
Jatin Chauhan, CS17BTECH11019
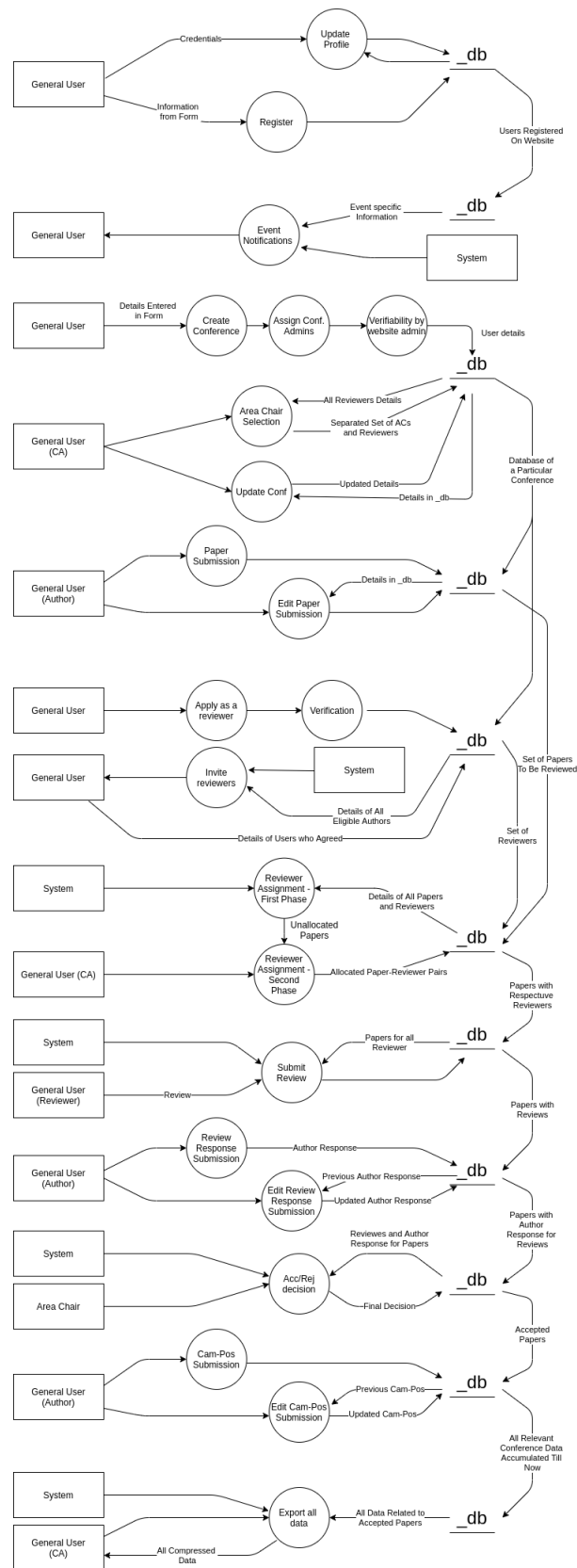Happy Mahto, CS17BTECH11018
Himanshu Bishnoi, CS16BTECH11018

Context Diagram:

Non-Preferred DFD (DFD 1):

Preferred DFD (DFD 2):

The **second DFD is preferred** since we have more automation in the *reviewer assignment section*, as well as the system also provides the facility to *notify about each event* to all the users on the portal, however at the *cost of more code* and a *busier* portal. We iteratively arrive at the second DFD after continuous updates.

Here, we describe the DFD 2, which we consider as more preferred.
- The General User can freshly create an account, and register on the portal.
- User can also update the profile.
- The users registered on portal, are notified for every event on the portal, on their registered e-mail address.
- A user, can create a conference and assign Conference Administrators (CA). This conference creation request, is verified by the portal administrator after contacting the conference admins through external means. This step is necessary in order to avoid spamming.
- The Conference Admin (CA) can further select other users (from reviewers) as Area Chairs. The CA can also update the conference details in a given period of time.
- A user can submit a paper to any conference. The submission can be edited within deadline.
- System invites authors as reviewers, and the users on portals can also apply for reviewers. The external applications are verified by conference authorities.
- After the submission deadline, the system allocates reviewers to each paper. The papers which do not get any reviewer are manually allocated reviewers.
- The reviewers write reviews for the allocated paper.
- Authors receive the reviews by all the allocated reviewers. Authors are expected to write a common response to all the reviewers.
- After the rebuttal period, the Area Chairs (AC) receive the papers, reviews and author responses of every paper. Accordingly, they decide the paper as Accepted or Rejected.
- The Accepted papers' authors have to submit a Camera-Ready version of paper and a poster.
- The CAs, after this deadline can download all the data related to all the Conference.

Man Machine Boundary:

Man

Machine

General User — Credentials → Update Profile → _db

General User — Information from Form → Register

Users Registered On Website

General User ← Event Notifications ← Event specific Information

System

_db

General User — Details Entered in Form → Create Conference → Assign Conf. Admins → Verifiability by website admin → User details → _db

General User (CA) — Area Chair Selection ← All Reviewers Details
Separated Set of ACs and Reviewers

General User (CA) — Update Conf ← Updated Details
Details in _db

Database of a Particular Conference

Man

General User (Author) — Paper Submission
Edit Paper Submission ← Details in _db → _db

Machine

General User — Apply as a reviewer → Verification → _db

Set of Papers To Be Reviewed

General User ← Invite reviewers ← System
Details of All Eligible Authors
Details of Users who Agreed

Set of Reviewers

System — Reviewer Assignment - First Phase ← Details of All Papers and Reviewers

Machine

Unallocated Papers

General User (CA) — Reviewer Assignment - Second Phase — Allocated Paper-Reviewer Pairs → _db

Papers with Respective Reviewers

System — Submit Review ← Papers for all Reviewer → _db
General User (Reviewer) — Review →

Papers with Reviews

General User (Author) — Review Response Submission — Author Response → _db
Edit Review Response Submission ← Previous Author Response
Updated Author Response

Man

Papers with Author Response for Reviews

System — Acc/Rej decision ← Reviews and Author Response for Papers → _db
Area Chair — Final Decision

Machine

Accepted Papers

General User (Author) — Cam-Pos Submission → _db
Edit Cam-Pos Submission ← Previous Cam-Pos
Updated Cam-Pos

All Relevant Conference Data Accumulated Till Now

System — Export all data ← All Data Related to Accepted Papers → _db
General User (CA) ← All Compressed Data

Man