# Project Phase 1

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## 1  Schema

Users {(
    UID serial (integer),
    Role string,
    Username string,
    Email string,
    Password string
)}
Publications{(
    PID serial (integer),
    Title string primary key
    Authors string,
    Research Area string,
    Paper Type string,
    Venues string,
    Publication year integer,
    Link URL
    Keywords string
)}
Suggestions{(
    SID serial (integer),
    By UID integer,
    to PID integer,
    Changes string
)}

# 2 Functionalities of Database

1. For basic functions listed below, we would use SQL commands of corresponding names.

   (a) Select
   (b) Insert
   (c) Delete
   (d) Update

2. Relations between Articles

   (a) Publications of all authors for a given publication.
   (b) All publications of the same year as the given one.

3. Rankings

   (a) By Year.
   (b) By research area.