Application 2: Conference

An academic conference needs an application to keep track of all submitted articles, including their current status, reviewers, and comments. We interviewed the chair of the conference about the requirements. Here is the result:

Each year, in a specific date period, defined by the application admin, the conference can receive a collection of articles. One responsible author should submit an article. The status of each article can be "submitted," "under review," "rejected," or "accepted." The status can change in different situations, as explained below. The application has three different types of users: admin (the application admin and not the database admin), reviewer, and author. Here is a list of the requirements:

An **admin** can

- Add open submission period (start date and end date) for each year;

- Add a reviewer and his/her information, including the id number, full name, phone number, and research area;

- Remove a reviewer.

A responsible **author** can

- Sign up and register him/herself by giving the basic information, including first name, last name, affiliation, email, and phone number. Each author should be registered once. It means that if the author has been registered before, there is no need to sign up again;

- See the current year's open submission period and submit an article if the current date is in the submission period. During the submission, the following information should be given: article type (which can be "short article", "full article", or "poster"), the title of the article, keywords (can be a maximum of four words which are separated with a comma), and the text of the article (which is a text with maximum 1,000,000,000 char). Each

author can submit more than one article each year. When an article is submitted, its status will be automatically "submitted";

- See the list of all of her/his submitted papers in the current year and see their status and reviewer's comment (if there is any). The reviewers' name will not be shown to the authors at all.

An **admin** can also

- Assign two reviewers to each article: When the submission date is ended, the admin can see the list of submitted articles in the current year and assign two reviewers to each article. When two reviewer are assigned to a paper, the status of the article changes to "under review";

  Please note that each reviewer can decide to reject or accept an article and write a command to an article individually (please see the reviewer's tasks for more information).

- See all submitted articles each year, including their details and status. The admin should be able to search for specific articles based on the title, author's name, year, article type, and status.

A **reviewer** can

- See a list of all assigned articles to him/her for review in the current year and their review status. The reviewer should be able to search the articles, which have not been reviewed by him/her yet.

- Decide for each assigned article ("rejected" or "accepted") and leave a command for that article. However, the article's status will change to "accepted" if both reviewers are decided for an acceptance. If at least one reviewer decides for rejection, the article's status changes to "rejected".