

Conference Management System

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Abstract:

Conference Management System is a software that allows companies and organizations to manage the various stages of the conference.

General Description:

The system can be accessed by 3 different kinds of users: the first kind user is the **author** his info (**name - ID**) he is the only one who can log in to the system as he works in the system company. He can submit the final paper of the conference and check its status either from the paper itself or from the second kind of user who is the **event manager** his info (**name - ID**) he is the one who can create the conference and he can accept or reject the paper of the conference [paper status] and he can view and download the conference paper. The third kind of user is the **reviewer** his info (**name - ID - topics**) he can review the conference paper and give it a grade on an online form that should be created by the conference in the system this form has an ID .the conference has info (**ID , Date , Room , Topics**) and at the end of the conference it publish the conference's final paper .the paper conference its info (**ID , status , title , content**) and it has the author ID.

Detailed description:

Entity 1 (Author)

The Author attributes

- The first attribute **name** is a composite attribute consists of first name and last name.
- the second attribute **Author_ID** is a key attribute.
- the third attribute **log_in_info** is composite attribute consists of email which is a key attribute and password.

The Author Relationships

- the first relationship is "**check update status**" 1:N between the Author and Conference_Paper (one author can check the status of one or many conference_paper in relationship 1:N)
- the second relation is "**submit final paper**" 1:N between author and Conference_paper (one author can Submit one Final Paper for one or many conferences in relationship 1:N) We have total participation (existence dependent, mandatory participation) between Author and conference_paper by Submit Final Paper.
- the third relation is "**Notify About Status**" 1:N between Author and Event_Manager(one author can be notified About the paper's Status from one or many Event_manager in relationship 1:N).
- the fourth relation is "**log in**" N:1 between author and authentication system (one or more authors can log in to the system).

Entity 2 (Event Manager)

The Event manager attributes

- The first attribute **name** is a composite attribute consists of first name and last name.
- the second attribute **event_manager_ID** is a key attribute.

The Event manager relationships

- the first relation is “**Notify About Status**” N:1 between Author and Event_Manager(one author can be notified About the paper’s Status from one or many Event_manager in relationship 1:N).
- The second relation is “**create conference**” 1:N between event manager and conference (one event manager can create one or more confrences) We have participation (existence dependent, mandatory participation) between event manager and conference by create conference(total participation of conference in create conference).
- The third relation is “**view paper**” N:M between event manager and conference paper (one or more event managers can view one or more conference papers).
- The fourth relation is “**download paper**” N:M between event manager and conference paper (one or more event managers can download one or more conference papers).
- The fifth relation is “**accept or reject**” 1:N between event manager and conference paper (one event manager can accept or reject one or more conference paper) We have total participation (mandatory participation) between event manager and conference paper by accept or reject relation (from both sides).

Entity 3 (conference paper)

The conference paper attributes:

- the first attribute is **paper_ID** is a key attribute.
- The second attribute is **status**
- The third attribute is **title**
- The fourth attribute is **content**
- The fifth attribute is **author_id** ...its author id the one who submit it

The conference paper relationships:

- the first relationship is “**check update status**” N:1 between the Author and Conference_Paper (one author can check the status of one or many conference_paper in relationship 1:N)
- the second relation is “**submit final paper**” N:1 between author and Conference_paper (one author can Submit one Final Paper for one or many conferences in relationship 1:N) We have total participation (existence dependent, mandatory participation) between Author and conference_paper by Submit Final Paper.
- The third relation is “**view paper**” N:M between event manager and conference paper (one or more event managers can view one or more conference papers).
- The fourth relation is “**download paper**” N:M between event manager and conference paper (one or more event managers can download one or more conference papers).
- The fifth relation is “**accept or reject**” N:1 between event manager and conference paper (one event manager can accept or reject one or more conference paper) We have total participation

(mandatory participation) between event manager and conference paper by accept or reject relation (from both sides).

- The 6th relation is “publish” 1:1 between conference paper and conference (one conference can publish one paper) We have total participation (existence dependent, mandatory participation) between conference and conference_paper by publish.
- The 7th relation is “reviews” N:M between conference paper and reviewer (one or more reviewer can review one or more conference paper). We have participation (mandatory participation) between event reviewer and conference paper by reviews (total participation of reviewer in reviews).

Entity 4 (conference)

The conference attributes:

- First attribute **conference_ID** is a key attribute.
- Second attribute **topics** is a many_valued attribute.
- Third attribute **Date** is a composite attribute consists of day/Month/year.
- 4th attribute is **room** is a composite attribute consists of room_number which is a key attribute and chairs which is a many_valued attribute.

The conference relationships:

- The first relation is “publish” 1:1 between conference paper and conference (one conference can publish one paper) We have total participation (existence dependent, mandatory participation) between conference and conference_paper by publish.
- The second relation is “create conference” N:1 between event manager and conference (one event manager can create one or more conferences) We have participation (existence dependent, mandatory participation) between event manager and conference by create conference (total participation of conference in create conference).
- The third relation is “defines” 1:1 between conference and online form (one conference can create one online form) We have participation (existence dependent, mandatory participation) between conference and online form by defines (total participation of conference in defines). The conference must define his online form as the relation is mandatory.

Entity 5 (Reviewer)

The Reviewer attributes:

- The first attribute **name** is a composite attribute consists of first name and last name.
- the second attribute **Reviewer_ID** is a key attribute.
- The third attribute **topics** is a many_valued attribute.

The Reviewer relationships:

- The first relation is “**reviews**” N:M between conference paper and reviewer (one or more reviewer can review one or more conference paper). We have participation (mandatory participation) between event reviewer and conference paper by reviews (total participation of reviewer in reviews).
- The second relation is “**give grade**” N:M between reviewer and online form (one or more reviewer can give grade to one or more papers in the online form).

Entity 6 (online form)

The online form attributes:

- the first attribute **form_ID** is a key attribute.
- The second attribute is **grade**

The online form relationships:

- The first relation is “**give grade**” N:M between reviewer and online form (one or more reviewer can give grade to one or more papers in the online form).
- The second relation is “**defines**” 1:1 between conference and online form (one conference can create one online form) We have participation (existence dependent, mandatory participation) between conference and online form by defines (total participation of conference in defines). The conference must define his online form as the relation is mandatory.

Entity 7 (authentication system)

The authentication system attributes:

- the first attribute **Email** is a key attribute
- The second attribute is **password**

The authentication system relationships:

- the fourth relation is “**log in**” 1:N between author and authentication system (one or more authors can log in to the system).