<u>**Database and Web Services Group Project ~ Jacobs Club Manager**</u>

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Intended functionality from a user's perspective
Our web application aims to make finding, registering, and managing the different Clubs at Jacobs University easier and more convenient for both the students and the club members. A user may either search for the name of an existing club or any key word corresponding to the club that the user is interested in. In the first case, our web application displays relevant information about the interested existing club. The displayed information includes the name of the founder, name of the supervisor, number of active members, time and location of meetings/gathering, and description of current projects. In the latter, our web application filters through the entered key word and displays all the clubs that are related to the user's interest. The user may choose to register for the interested club, contact the club founder, connect with the club members, and access the mailing list directly through our web application. Additionally, pre-existing and former members of the clubs have an option to rate the club so that new interested users have an idea of how the club is.

User interface and description of illegal inputs
- A user will be able to search for active clubs through the search bar.
- A user can select a preference category for clubs, for example: Sports, Dance, Arts, Outreach and Fellowship, and Others.
- A user will get tailored recommendations of clubs he/she might be interested in based on their major, preferences, and club involvement.
- A user can register for a club he/she is interested in with one click.
- A user will be able to see the number of people registered in a club.
- A user will be able to see the timings and venue of the club activities.
- A user will be able to communicate with the admin of the club through a single click.
- A user will be presented with a "What's Happening Today" and "Upcoming Events" section in the home page.
- A club admin can remove members of his/her respective club if they violate the club rules.
- A user cannot change the club and event details without admin permission.
- A user cannot register for a single club more than once.
- A user cannot remove other members of the club without admin permission.
- A user cannot view personal data of another user.
- A club admin can only have admin permission for his/her own club.

Initial ER-Diagram