

## N-Events Organization DBMS

### I/ Description:

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- This is a prototype, and it runs on the local server. You can run on the remote server by changing the address of connection.
- To testing the program on your local server, please follow the instructions on README.md.
- Ideas:

N-events is a non-profit organization belonged to the Student Society of NEU (the Vietnamese National Economics University), where I had participated for around 3 years. In 10 years of operation, N-events club has more than 500 members, and runs at least 4-6 campaigns each year. Nevertheless, it never had a proper program to help with storing and analyzing the database. After taking the course CSC 370 – Database System in the University of Victoria, I want to create one for my organization, and it is an opportunity to practise my ability in DBMS.

Page: <https://www.facebook.com/Nevents.neu>

### II/ Contents:

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- 1) E-R diagram:
  - Diagram modelling the entities, relationships and constraints
- 2) sql\_project.sql:
  - Tool: PostgreSQL 10
  - Construct the table schemas corresponding to relations with appropriate key, foreign-key and attribute constraints
  - Create trigger to allow automatic transformations – improving data integrity
  - Create index to process to the data more efficiently in the long run
  - Add sample data to the database
- 3) sql\_project.py:
  - Tool: Python3 (Psycopg2, RegEx, Tabulate)
  - Allow users to interact with the database: insert/update/view/report data
  - Properly handle exceptions and the failure of system during each access