**Build Instructions**

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**Project 1: Group Matching App**

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**Materials Required**

Software Requirements:

* OpenJDK/Java 11 or higher
* MySQL v14 or higher
* GNU bash v4 or higher
* myMeet (from GitHub: <https://github.com/myhe01/mymeet>)
* Web browser (supports HTML5 or higher; Google Chrome, Mozilla Firefox, or Microsoft Edge recommended)

Hardware Requirements\*:

* x86\_64/AMD64/Intel 64 architecture
* ≥32 GB storage
* ≥2 GB memory
* Graphics card (≥512 MB video memory)

\*Please note that most modern computers will meet the minimum requirements needed to build the project.

**Build Instructions**

These instructions require some knowledge of your operating system’s file structure and basic bash commands.

Creating the database:

1. <https://github.com/myhe01/mymeet/archive/refs/heads/main.zip>  
   Download and unzip the above folder to your preferred directory (hence referred to as /mymeet-main/).
2. Open bash and use cd to change directories to /mymeet-main/. Run MySQL with the command sudo mysql (you may be prompted for a password). You will be greeted with the MySQL shell.
3. Type CREATE mymeet; and press enter. Then type USE mymeet; and press enter. This establishes a local SQL database so that the website will correctly store and retrieve data.
4. Next, copy the first table (stopping at the semicolon) and paste into the MySQL shell, and press enter. Repeat with subsequent tables.

create table user(

userID INTEGER NOT NULL,

userEmail VARCHAR(50) NOT NULL,

username VARCHAR(20) NOT NULL,

password VARCHAR(20) NOT NULL,

aeronautics BOOL,

anime BOOL,

art BOOL,

books BOOL,

cars BOOL,

history BOOL,

medical BOOL,

moviesAndTV BOOL,

music BOOL,

nature BOOL,

photography BOOL,

religion BOOL,

school BOOL,

sports BOOL,

technology BOOL,

videoGames BOOL,

firstName VARCHAR(20),

lastName VARCHAR(20),

PRIMARY KEY ( userID )

);

create table meetGroup(

groupID INTEGER NOT NULL,

groupName VARCHAR(20) NOT NULL,

aeronautics BOOL,

anime BOOL,

art BOOL,

books BOOL,

cars BOOL,

history BOOL,

medical BOOL,

moviesAndTV BOOL,

music BOOL,

nature BOOL,

photography BOOL,

religion BOOL,

school BOOL,

sports BOOL,

technology BOOL,

videoGames BOOL,

message MEDIUMTEXT,

PRIMARY KEY (groupID)

);

create table event(

eventID INTEGER NOT NULL,

eventName VARCHAR(20),

groupID INTEGER NOT NULL,

creator INTEGER NOT NULL,

location VARCHAR(50) NOT NULL,

date DATE NOT NULL,

time TIME NOT NULL,

dateEnd DATE NOT NULL,

timeEnd TIME NOT NULL,

PRIMARY KEY (eventID),

FOREIGN KEY (groupID) REFERENCES meetGroup(groupID),

FOREIGN KEY (creator) REFERENCES user(userID)

);

create table groupMembers(

userID INTEGER NOT NULL,

groupID INTEGER NOT NULL,

isAdmin BOOL,

PRIMARY KEY (userID, groupID),

FOREIGN KEY (userID) REFERENCES user(userID),

FOREIGN KEY (groupID) REFERENCES meetGroup(groupID)

);

create table eventAttend(

userID INTEGER NOT NULL,

eventID INTEGER NOT NULL,

PRIMARY KEY (userID, eventID),

FOREIGN KEY (userID) REFERENCES user(userID),

FOREIGN KEY (eventID) REFERENCES event(eventID)

);

create table images(

eventID INTEGER NOT NULL,

imagePath VARCHAR(50) NOT NULL,

PRIMARY KEY (imagePath),

FOREIGN KEY (eventID) REFERENCES event(eventID)

);

create table kickedFromGroup(

userID INTEGER NOT NULL,

groupID INTEGER NOT NULL,

PRIMARY KEY (userID, groupID),

FOREIGN KEY (userID) REFERENCES user(userID),

FOREIGN KEY (groupID) REFERENCES meetGroup(groupID)

);

create table bannedFromEvent(

userID INTEGER NOT NULL,

eventID INTEGER NOT NULL,

PRIMARY KEY (userID, eventID),

FOREIGN KEY (userID) REFERENCES user(userID),

FOREIGN KEY (eventID) REFERENCES event(eventID)

);

1. Your database is now set up. Type quit to leave the MySQL shell.

Using the website: