CPT-200 Team 2 Server/Backend notes

Server will MySQL. Will use MySQL workbench.

Server will be kept in GitHub repo for now, unless someone has a better idea for hosting??

APIs used on backend possibly for key storage:

Google Cloud Secret Manager

Preliminary Tables

USERS (stores user account details)

- **Primary Key User\_**ID

- username (would be username or Google API login ID)

- password (or hash of password??)

NOTES (stores encrypted notes)

- Note\_ID (PK)

- User\_ID (FK)

- title

- content

- create\_date

- update\_date

\*OPTIONAL\* SESSION (could be used to timeout a user if they were logged in too long)

- ID (PK)

- User\_ID

- token

- created\_time

- expiration\_time

If didn’t use API for key storage, would need an EncryptionKeys table, would relate user\_id to the key for that user.

I need someone to draw up the data flow diagram in the presentation. It is fairly simple.

Front End (Django web interface) talks to the Back End (also Django). The Back end communicates with the key management API and the MySQL database. The back end also contains the encryption components with will use Python libraries to complete this.

Some of the database queries needed would include:

User related,

User registration

User Login/Authentication

User deletion

Note related,

Note creation

Note retrieval

Note update

Note deletion

Session related \*OPTIONAL\*

Session creation

Session validation

Session expiration

Encryption Key Management if stored in database

Store key

Retrieve User key

Delete Key (if user deleted)