Technologies Used

Backend: Python (Flask)

- To install: pip install flask
- Python version should be at least 3.5
- “Micro” web framework (doesn’t require any specific tools or libraries, versatile)
- Most popular Python web-framework
- I have used Flask for class projects before
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Frontend: Javascript (React)

- Node JS: (https://nodejs.org/en/download/)
- React is modular (can break down everything into smaller components, reuse components, see the UI design page)
- React new and maintained by Facebook (well documented)
- React faster than plain javascript (don’t have to reload entire page on update, only part that is updated is rerendered)
- I have less experience with React, but from what I have seen in the past week it is both easy to learn and use

Database: Sqlite

- Should already be preinstalled on system (sqlite3)
- Uses PostgreSQL as reference system
- Database embedded into backend (no external servers)
- Entire database stored as single file (easy to backup)
- Drawback is bad for concurrent writes (shouldn’t be issue for our app)
- I have taken a class on databases which was taught in sql, looks like sqlite is the easiest to use sql python library, if performance becomes an issue can switch to PostgreSQL since Sqlite based on it

I will use this guide to set everything up on my local machine and on the servers+