

Team BigToe

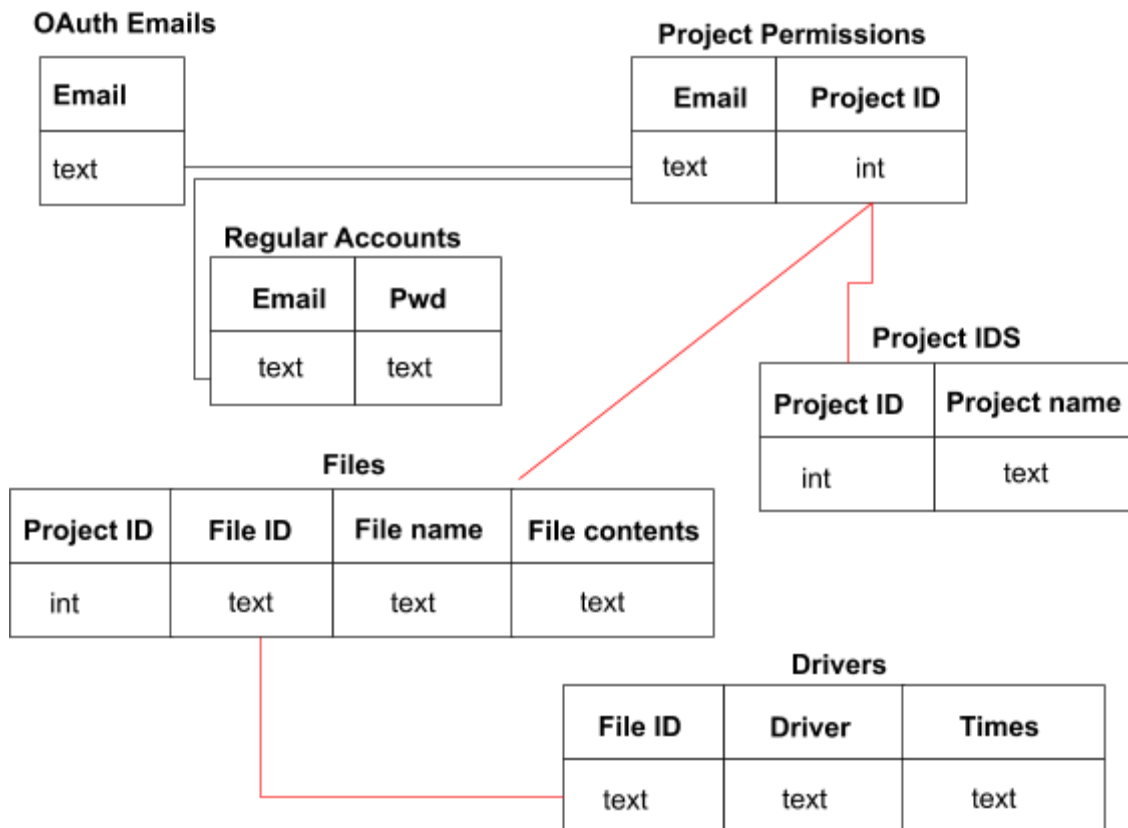
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Codexlab (206.81.1.145)

An online collaborative code editor that also executes code written in Python. Similarly to google docs, a user will be able to sign in and view/store files. To start, a user will create a new project. This is similar to a directory and will be used to store all of the user's files that they choose to belong to a certain project. Next, they will create a new file. As of now, these will be Python files but we hope to expand to allow users to upload text files. When they open a file, they will see two panes. One is the file contents, which they will be able to edit. They will be able to run the code, and the output will be displayed in the other pane. They will not be able to import libraries other than a limited number of std libraries and other pieces of their code. Each project can be shared with other users via their email addresses and they will then receive full write access to the files.

Frontend framework: We are using Bootstrap due to our combined experience with it.

Database Schema



SEPARATE TABLE FOR OAUTH USERS

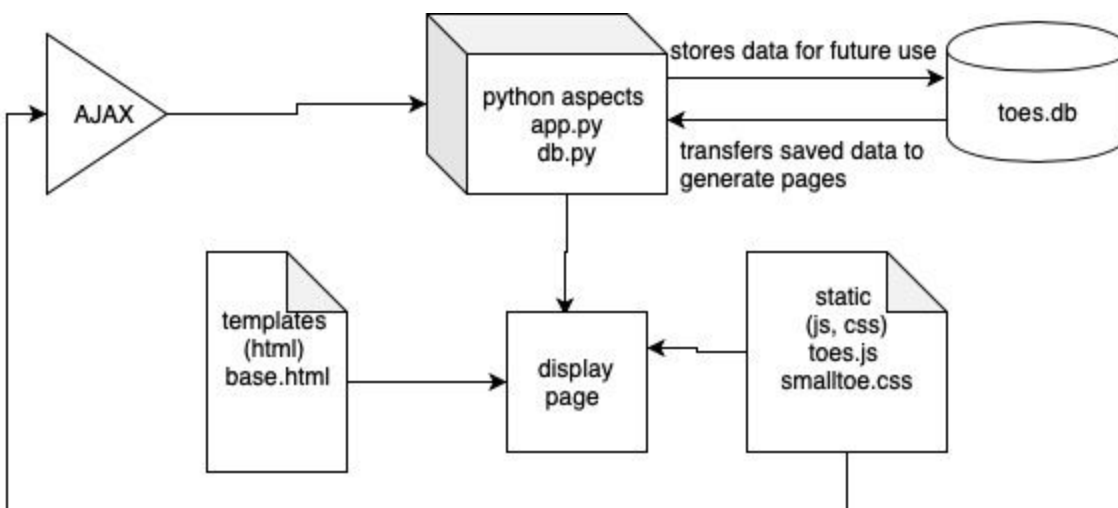
Accounts stores login information for each user (hopefully will be replaced by OAuth at some point)

Project IDs stores the name of a project as it would appear to the user and the corresponding ID used to access information on it (in case everyone wants to have a project named big toe)

Project permissions includes an entry for each project that a user has access too

Files contains identifying information for each file (what project it belongs to and the file's name) and all of the contents of the file.

Component Map



Site Map

/

ProjectName

username	
password	
login	create

google oauth

/profile

Email: **big@toe.io**


new password


confirm

/main

<input type="button" value="+new proj"/>	<p>Create a new project or continue working on an existing one</p>
<input type="button" value="Project A"/>	
<input type="button" value="Project B"/>	

/ main, after button pressed

☐ Welcome, Bingus 

<input type="button" value="+new proj"/>			
<input type="button" value="Project A"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="⊕"/>
<input type="button" value="Project B"/>	<input type="text" value="big.py"/>	<input type="text" value="smol.py"/>	<input type="text"/>

/main, after gear click

add collaborators?


email:

/project/<pid>/<fileid>

☐ filename.py

<input type="text"/>	<input type="text"/>
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/project/<pid>/<fileid>, after delete

you sure? 

Timeline:

05-16 all account stuff + temp login + register ✓

05-24 basically frontend 1/2
sharing projects 1/2
Create projects ✓
Create files!!!
Change password ✓

05-29 code execution: code editor and checking ✓
Oauth!!!

5/5 live editing ;((

5/7 DONE!

Stretch goals:

0. Pretty file preview (like google docs)
1. Edit history
2. Shell
3. Messaging

Roles:

Joan: PM, frontend, JS, app.py, sockets + live editing

Maryann: app.py, DB, some frontend, OAuth

Susan: JS, app.py, DB

Anton: JS, frontend, sockets + live editing